East Midlands Gateway Phase 2 (EMG2)

Document DCO 6.14C/MCO 6.14C

ENVIRONMENTAL STATEMENT

Volume 2 Technical Appendices

Appendix 14C

Fairhurst Minerals Safeguarding Assessment (EMG2)

July 2025

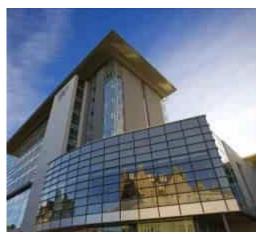
The East Midlands Gateway Phase 2 and Highway Order 202X and The East Midlands Gateway Rail Freight and Highway (Amendment) Order 202X



Minerals Safeguarding Assessment

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

July 2024











CONTROL SHEET

CLIENT: SEGRO PLC

PROJECT TITLE: East Midlands Gateway Phase 2, Land South of East Midlands Airport

REPORT TITLE: Minerals Safeguarding Assessment

PROJECT REFERENCE: 148749

DOCUMENT NUMBER: R5

	Issue 1			Name		Signa	ature	Date
Issue	Prepared	by	Cł	nelsea Hug	gins	Signed cop	y held on file	05/06/2023
Original Issue	Checked	by	Alex O'Connor			Signed cop	y held on file	05/06/2023
	Approved	by	С	hristo Duns	ston	Signed cop	y held on file	03/07/2024
	Issue	D	ate	Status	De	escription	Sigr	nature
							Prepared By	
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Update Record	3						Checked	
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	4						Checked	
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EXECUTIVE SUMMARY

Site Details & Proposed Development	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.
Objectives	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 redevelopment.
Conclusions	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) • 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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1.0 INTRODUCTION

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).



2.0 SITE INFORMATION

2.1 Site Location and Description

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.

2.2 Site History

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.



3.0 SOURCES OF INFORMATION

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.



4.0 MINERALS SAFEGUARDING

4.1 Leicestershire Minerals and Waste Local Plan

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:

- 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
- 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.

4.2 Geological Setting

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.



Table 4-1: Ground Conditions Summary

Lithology	Location	Base of Lithology (m bgl)	Base of Lithology (m AOD)
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.

4.3 Glaciofluvial Deposits

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.

4.4 Brick 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.

4.5 Diseworth Sandstone

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.

4.6 Groundwater

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.

5.0 CONCLUSION

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

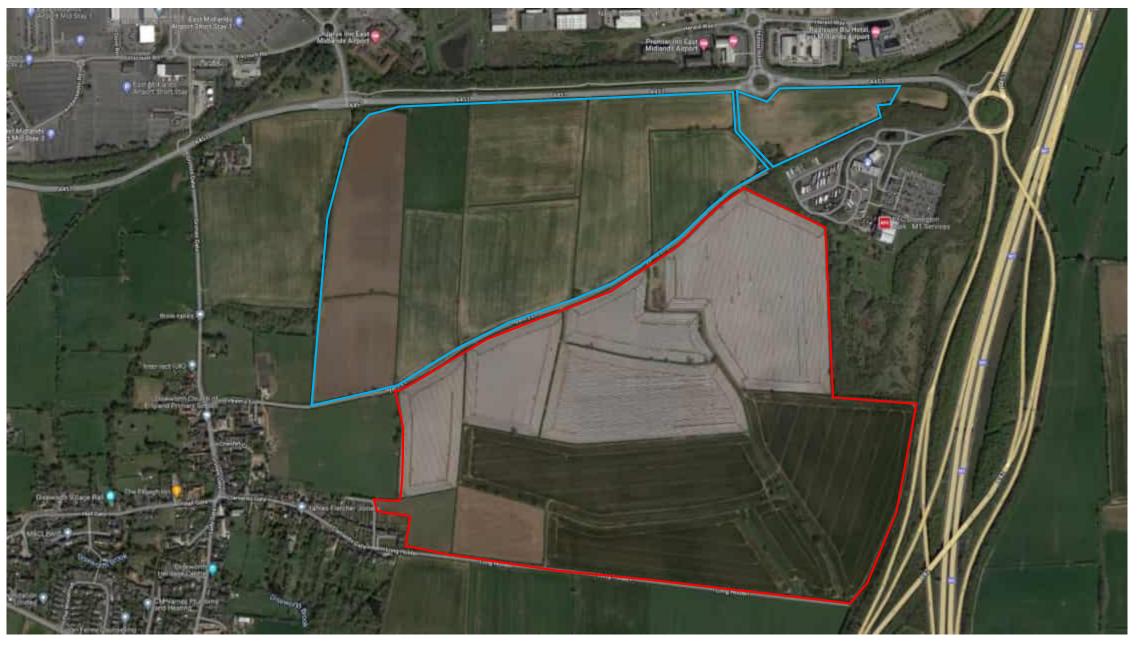
Glaciofluvial Deposits composed of granular material (sand and gravel) have been identified on site and, although these soils are sporadically worked in the region, it is not considered the deposits on site will be economically viable to extract. This is due to the relatively unsorted nature of the deposits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



APPENDIX A DEVELOPMENT PROPOSAL PLANS & DEVELOPMENT DRAWINGS



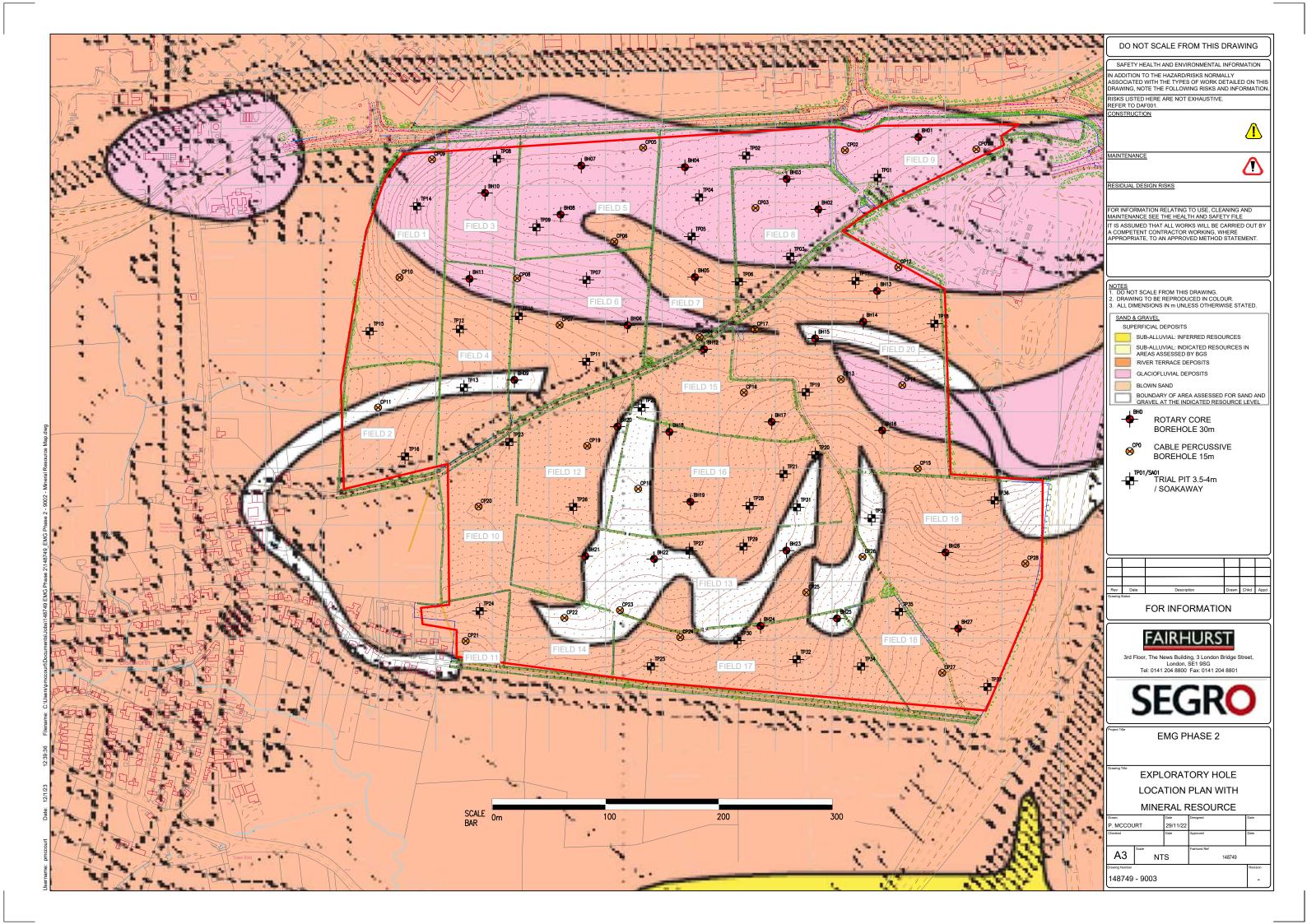
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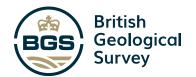


APPENDIX B MINERAL SAFEGUARDING MAP OVERLAY





APPENDIX C BGS BOREHOLE RECORD AND HISTORICAL BOREHOLE LOGS

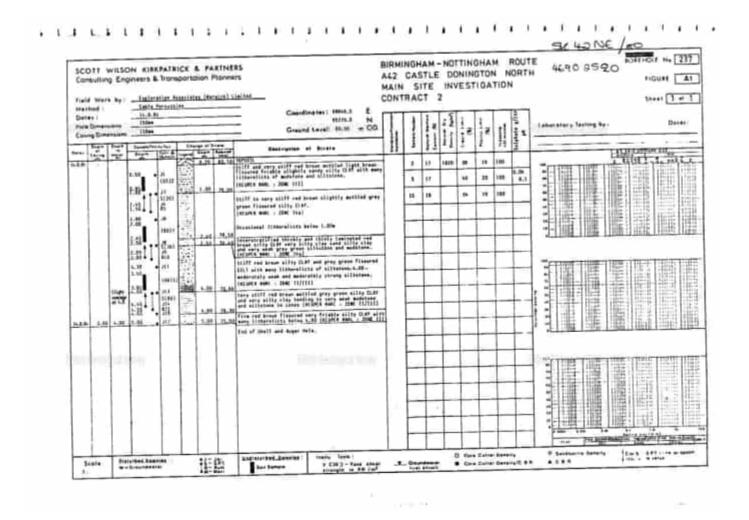


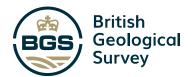
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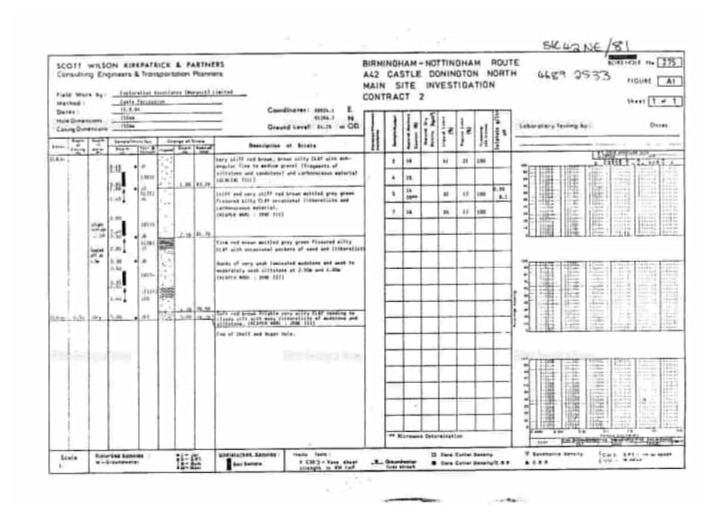


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			_	\perp		Preliminary Site Investigation		Sheet 2		****	

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		
-		l				ine gravel.		=	l		-		
_			1	1				0.90	\$2.87	2.00	-		
		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	95.27	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	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	CLU	1		
4.504.95	0(60)		1		l			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	-	Į			=	1		ı		
al Line	anii I				l			-	1130	400	ı		
			1		1			Ε			ı		
	l 1							Ε.			ı		
			1 1					=			ı		
8.30	50			1	520	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 SILTSTOR	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 quarte	=		·	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)			1		
			id fr	- 1		of to 13.5m with bottom 2m perforate Martine Department of Transport	t and sur	Contract		et	_		
lorehole	Mec	ord			A564 Stoke - Derby Link								
			_		Derby Southern By Pass			SZ796 Boroholo 10					
xplorati	on a	ssocia	100	١,		Isley Walton to MI Section Proliminary Site Investigation	, I						
				_		LASTINGLA UTIN THASTERDEZTON					Sheet 1 of 2		

Sempling	Il Run Fluid Core Fi				Stra	te	SK 42 NE/1			, , ,		
Drill Run	Fluid Heturn			HOD	Descr	ption		Depth	Level	Lege	md	
Set 2	1001	753	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 SILIT	IONE.	Ē				
11.50	MIL	60%	slay	clay	Dark ri frages	dilsh brown silty CLAY with mudstons		11.60	72.17	7		
12.00	411.	90%	15	NIL.	Dark re highly very as horizon	edish brown becoming grey green Fine anathered slity MLESIDE 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						
P 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	rehole Record			P	4564 Stoke - Derby Link			Contract 52796				
					Southern Derby By Pasa				orehole 10			

	British Geologic	d Surv	7					MY WIDEHING JUNCTION 21 TO 30 PRELIMINARY GL- CONTRACT 2	Boreto Ronto	et
Mactione: Plosh :				Diamet Omm ci	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 orthinated, reveals and emocrat.		
	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)	10.90	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	SPT 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)					
24/01/2007: Complete at 17:20m Gentle (Approx) by 150 OP	14.84-17.20	UN					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 submounded 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 taminated clay with frequent lithonelics. Occasional bands cup to 40mm thick; of moderately strong sandstone/slistione. Below 2.50m; locally a weak slitstone. Orange firm 1700h week to moderately strong SILTSTO Retrieved as a sit with hequest lithonelics and cobbles o situatione. 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 Specialist (Specialist Specialist Special CONTRACT 2 Sheet 1 # 1 Condingtos: setus E 1 1 1 1 1 E Grand Level: N.P. .. QD . **Laboratory Sesting By:** Service Control of Service Contr A SAMPLE - 開記 DATE brees sifty COM. (MAKEN HILL) , 14 19 100 1.10 HAN. inn 1.11 hilf out brown motifed light brown wilty Hilf with many meditate litheralists. (Allows dam, . 2008 187 ٠ 14. 13 14 PH1 bill red know and greg green financed althy field and erry sitty rise with every muletone and slippynes (likewed) site. Summets mess; a DME (1/722) form; site! is parts. Banks of oath and erry mesh meditions and allhabous table 2.500 ٠ 18 11 11 1,48 3,66 1,7938 5:13 * 11 (153) n. 1. M 1. G 上版 3.36 11.34 TIVITIE Ē Thilf and brown matthed group grown highly finnered filty ELST with many medicine libburelists and estational banks of sout and only seem sifteines (scome bost, 1200 (1/214) 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 tre 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 Carter Serenty

* Care Carter Serenty T. # P. 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			=		-=-
					25/28.50				
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 MUDSTONE 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 crariably weak to moderately strong red brown calcareous MUDUTONE. Fractures:	
	97	47	21	0	25/60 0PT 26:///6			strong red brown calcureous MADDTCASE. Fracture: hystomis, extremely closely to charge spaced, moveth, planer with self stay leff up to Strem; subvestical, locally very closely spaced, smooth, planer; Request others in egular, apprecially unclose stiller.	
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	Climit								
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 mothed grey green calcaseous MUDSTCRE with medium spaced this hads of moderately strong light grey green stituture. Fractures to instructural plant of moderately strong state green and provided the provided strong stron	12.85	49.45	P4	0	24	50.	01 50 Sample / Tests	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	Sample / Tests	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 8	1-1				million	
Gcale (approx)					1000				pilten	
		(approx)	_							lemarks
1:50 Figure 1	Ti.	1:50 Figure)								



APPENDIX D STRUCTURAL SOILS BOREHOLE LOGS & LAB TESTS

BOREHOLE LOG

Contract:				Client:				Boreho	le:		
EMG Pha	se 2						SEGRO			В	H01
Contract Ref:	Start:	05.09.22	Groun	d Level (m	n AOD):		National Grid Co-ordinate:	Sheet:			
765514	End:	13.09.22		89.22	2		E:446551.3 N:325384.8		1	of	16
						_					

	(65	714	End:	13.09	1.22		C	39.22		E:446551.3 N:325384.8	1	of 16
		Sample	s & Testing	N	1echa	anical	Log	<u>8 ≅ </u>	_		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}\cdot \frac{1}{2}\cdot \fra
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 4.00-4.45	19	SPT DSPT	N=66							4.00-4.45m: becoming orangish in colour	- - -	
-						_					- - 4.45	

		Boring Pro	ogress and	Water Ob	servations		Chise	lling / Slov	v Progress	Canaral	Damarl	·			
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remark	(S			
06	5/09/22 5/09/22 5/09/22 3/09/22 3/09/22 1/09/22	16:31 07:52 12:00 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	1. Position cleared using C 2. Hand dug inspection pit i 3. Drilled using 200mm dia 4. SPT hammers AR3104- AR3830-2021 (<i>E_r</i> = 67.0	to 1.20m. meter tools a 2022 (<i>E_r</i> = 64	nd casing.			
14	1/09/22	17:00	30.75	4.45	146	28.15				All dimensions in metres	ensions in metres Scale: 1:25				
)	ethod sed:	Cable Pe	tion pit +	Plan Use		3000 Mar cchio GEC			onny Hutt + Sam 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

7												DOMEN			
Contract:								Cli	ent:				Boreho	le:	
		EMC	3 Pha	se 2								SEGRO			BH01
Contract Re	f:			Start:	05.09	9.22	Grou	nd Le	evel (m	AOD):		National Grid Co-ordinate:	Sheet:		
7	765	514		End:	13.09	9.22		8	39.22	1		E:446551.3 N:325384.8		2	of 16
		Sample	s & Tes	ting	ı	Mecha	anical	Log	s <u>s</u>	∞ - iö	<u></u>			Depth	Material
Depth (m)	No	Туре	Res	sults	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Return & Deta	Backfi T Instru mentat	Water	Description of Strata		(Thick ness)	Graphic Legend
4.45-5.25 (0:03)					88	78	44					Extremely weak to weak reddish MUDSTONE. Occasional grey poor sitstone, GRADE III			

Depth		Jamples	s & resurig			anicai	Lug	rns tails	dill ⊱ tru- atio	Water		Description of Ctuata		pth M nick G
(m)	No	Туре	Results	(%)	(%)	RQD (%)	lf (mm)	Flush Returns & Details	Backfill 8 Instru- mentation	Wa		Description of Strata		nick G ss) Le
4.45-5.25 (0:03) 5.00-5.12	20	С		88	78 78	44		Air+Mist (Brown)		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MUDSTÓ siltstone. Bedding undulating staining. I (MERCIA	weak to weak reddish ONE. Occasional grey pocl GRADE III. fractures: Closely spaced, g, rough, with abundant Rare reddish brown silty clay MUDSTONE GROUP) 45-4.55m: AZCL.(stratum)	vets of 0-10°, black y infill.	80)
- - 5.25-6.75 ₋ (0:06) -				*	 	<u> </u>		*			abundant 4 occasiona >3mm.	m from previous sheet) 4.64m: Grey siltstone. 73-4.75m: 4°, undulating, black staining, clay infill >3 .85-4.87m: 9° undulating al black stained infill silt	rough, mm. rough y clay	25
5.80-5.90	21	D		85	21	0		Air+Mist (Brown)			>3mm inf5.1 >3mm inf5.155.2 undulating Extremely thinly larr to frequer Bedding	96-4.99m: 8°, undulating, ill clay. Grey silstone. 10-5.11m: 3°, undulating, ill clay. 5.17m: Grey siltstone. 92-5.25m: Grey siltstone wg, rough fracture, >3mm clay weak reddish brown, ninated, MUDSTONE. Occant pockets of grey siltstone. fractures: Closely spaced, g, rough and smooth,	rough, (1. // (1	65)
- 6.75-8.25 - (0:04) - 6.75-7.20		SPT	N=91	*	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		*			occasiona Fracture undulating staining. (MERCIA 5.25-	al to abundant black staining set 2: Widely spaced, 6 g, rough, occasional MUDSTONE GROUP) 5.43m: AZCL. 3-5.47m: Fine to medium g	g. 60-80°, black <u>6.</u>	90
7.40-7.60	22	С		90	83	83		Air+Mist (Brown)			siltstone. 5.6incipient f 6.60-6.75 Extremely MUDSTO Bedding f undulating	49-5.68m: Thinly laminated 8-5.80m: Abundant black stractures. 6.01-6.02m, 6.46-6.48m sm: Grey siltstone. 7 weak to weak reddish DNE. CIRIA GRADE III. fractures: Widely spaced, 0 g, rough with occasional Rare clay infill. Occasio	brown to 10°, black	
- - 8.25-9.75 ₋ (0:04)				*	X	*		flist wn)			abundant (MERCIA	yellow staining. MUDSTONE GROUP) 8.35m: Drilling disturbed.	-	
- - - . 8.83-8.94	23	С		100	93	93		Air+Mist (Brown)			occasiona >3mm.	.62-8.70m: 8° undulating al black staining with cla on on next sheet		58)
Ro	rina I	Progress	and Water Ob	servat	ions			Chise	ellina / 9	Slow	Progress		_	
	Time	Borel	hole Casing	Boreh Diam	nole eter	Wate	- 11	From		Го	Duration	General F	Remark	S.
		Dep	oth Depth	(mn		Depti	h	1 10111			(hh:mm)			
												All dimensions in metres	Scale: 1	1.25
Method	Insp	ection p		_	ando	3000 I	∐ Mark	2 +		d Jo	nny Hutt +	Logged JAlton +	Checked	1:25
Used: C	ء اما ہ	Percuss	sion + Use	q. C	oma	chio (SEO 6	: 01	By:	S	am Carter	By: RStan	By:	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	Conoral	Domor	·l.co	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
,		Ворит	Ворит	(11111)	Верит							
									All dimensions in metres	Scale:	1:25	
Method Used:		tion pit +	Plan Use		3000 Mar			ny Hutt + m Carter	Logged JAlton + By: RStan	Checked By:		AGS



Contract:							Client:				Boreho	le:	
		EMG	Phase 2						SEG				BH0
Contract Ref			Start:	05.0	_	Grou	nd Level (m	•		Grid Co-ordinate:	Sheet:		
7	765		End:	_			89.22		E:44	6551.3 N:325384.8		3	of 16
Depth (m)	No	Samples 8	Results	TCR	Mech SCR (%)	anical I	Tetums Fetums Setums	Backfill & Instru-mentation	water	Description of Strata		Depth (Thick ness)	Materi Graph Leger
9.75-11.25 (0:05)				100	93	93	Air+Mist (Brown)		Extrem MUDS Beddin undula staining abunda (MERO (stratui) sheet)9.2	8.77-8.79m: 5° undulating ant black stained >3mm silty of the large weak to weak reddish TONE. CIRIA GRADE III. g fractures: Widely spaced, 0 ting, rough with occasionag. Rare clay infill. Occasionat yellow staining. CIA MUDSTONE GROUP) on copied from 6.90m from p. 26-9.29m: Weak grey siltston. 75-9.82m: Drilling disturbed.	clay. brown to 10°, al black onal to	- · · · · · · · · · · · · · · · · · · ·	
10.28-10.48	3 24	С		95	95	95	Air+Mist (Brown)		Extrem	nely weak reddish brown tl	hinly to	- - 10.48	
10.70-10.96	25	С					Ai. (B		thickly interbe Beddin spaced occasid (MERC	laminated MUDSTONE. dded with weak grey siltstone g fractures: Closely to l, subhorizontal, planar, unconal to abundant black stainin CIA MUDSTONE GROUP) 1.04-11.14m: Interbedded w	Locally by widely dulating, ng.	- - - -	
11.25-12.75 (0:06) 11.38-11.70		С		*	*	X	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		siltston	e. .25-11.36m: Gravelly silty cla	y.	- - -	
-				100	65	54	Air+Mist (Brown)		lamination	.71-11.73m: Grey siltstone. 1.80-11.96m: Extremely weak ted mudstone, interbedded wi e. .91-11.96m: Clay	k thickly th weak	- - -	
									mudsto		ne and	-	
12.75-14.25 (0:07)	5			X		X			12	.55-12.75m: NI.		- - -	
				100	95	89	Air+Mist (Brown)					- - -	
Bo	ring F	Progress a	nd Water Ob	servat	ions		Chis	elling / Slo	w Progress				
	Time	Boreho Depth	le Casing	Boreh Diamo (mn	nole eter	Wate Depth	r From		Duratio	,, General	Kema	arks	
											ı		
										All dimensions in metres	Scale:	1:2	5

		Boring Pro	ogress and	Water Ob	servations		Chiselli	ing / Slow F	rogress	General	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	KS	
3													
5													
í													
5										All dimensions in metres	Scale:	1:25	
	Method Used:	Cable Po	ction pit + ercussion -	Plan Used		3000 Mar cchio GEC			ny Hutt + m Carter	Logged JAlton + By: RStan	Checked By:		AGS



glips				VIL	. •	O .					BOREI	HOL	ΕL	.OG
Contract:							Cli	ient:				Boreho	ole:	
		EMG	Phase 2								SEGRO			BH01
Contract Ref	:		Start:	05.09	9.22	Grou	und L	evel (ı	m AOD):		National Grid Co-ordinate:	Sheet:		
7	655	514	End:	13.09	9.22		8	89.2	2		E:446551.3 N:325384.8	;	4	of 16
		Samples &	& Testing		Mech	anical	Log		<u>s</u> ∞ . e			-	Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	lf (mm)	Flush	& Details Backfill & Instru- mentation	Water			(Thick ness)	Graphic
- - - -				100	95	89		Air+Mist			Extremely weak reddish brown thickly laminated MUDSTONE interbedded with weak grey siltston Bedding fractures: Closely spaced, subhorizontal, planar, coccasional to abundant black stain (MERCIA MUDSTONE GROUP (stratum copied from 10.48m from sheet)	. Locally ne. o widely ndulating, ning.	[(6.77)	
- - 14.25-15.75 _ (0:04) _ 14.26-14.50 - 14.56-14.69	27	C C		X	X	 X 	_	*			13.50-13.53m: Grey siltstone 13.53-13.55m: Sandstone. 13.55-13.57m: 4°, clay infill. 13.57m: Thinly interlami siltstone (<10mm) 13.86-13.89m: 11°, incipie rough, abundant black staining.	ated with	- - -	
- - - -				87	75	75		Air+Mist	(Blown)		13.86-13.90m: Siltstone13.89-14.07m: 88°, incipie rough, occasional black staining14.25-14.45m: AZCL14.71-14.72m: 5°, undulating, rough14.87-14.89m: 9°,	slay infill,	- - - -	
15.38-15.47 - - -		D			_						undulating, rough15.38-15.46m: Clay 15.38-15.59m: Locally ir with reddish clay15.59-15.64m and 15.70-15.	75m: NI.	- - -	
- 15.75-17.25 ₋ (0:04) 											15.75-15.83m: Grey siltstone 15.83-15.85m: Planar, re infill. 15.90-16.08m: 82°, undulat abundant black staining, incipient	ng, rough,	- - -	
- _ 16.23-16.34 - - - -	30	С		100	86	71		Air+Mist	(Imola)		15.95-16.23: Clay and muds 16.35-16.37: Clay and muds 16.38-16.59m: 63°, undulat occasional black staining, incipier 16.45-16.79: Clay and muds 16.51-16.65m: 66° undula occasional black staining incipier	one. ng, rough, t. one. ing rough	- - - - -	
- - - -					V						16.89-16.95m: Clay, silt mudstone 17.05-17.16m: 83° unduk abundant black staining incipient.	ting ough	- - - - 17.25	
- 17.25-18.75 _ (0:05) - - - -				100	82	73		Air+Mist	(Livola)		Extremely weak to weak MUDSTONE. Occasional grey beds (<90mm). GRADE II. (MERCIA MUDSTONE GROUP 17.25-17.31m: NI 17.51-17.57m: NI. Rare bla on discontinuity surfaces 17.70-17.73m: NI. Thinly lan Description on next sheet	siltstone k staining	-	

											All dimensions in metres	Scale:	1:25
Dat		Time	Boreho Depth	le Casing	Boreh Diame (mn	nole eter	Water Depth	From	То	Duration (hh:mm)	General F	Remark	(S
	Во	ring F	Progress a	nd Water O	oservat	ions		Chisel	ling / Slow	Progress	0		
- - - -					100	82	73	Air+Mist (Brown)		(MERCIA 17.25 17.5 on discon 17.70	offini, GRADE II. MUDSTONE GROUP) 5-17.31m: NI. 1-17.57m: NI. Rare black sitinuity surfaces. 0-17.73m: NI. Thinly lamination on next sheet	١	
- - 17.29 - (0:05	5-18.75 5)	5			<u> </u>		X	V		mudstone 17. abundant Extremely MUDSTO		g ough - 17 pedded -	7.25
-					100	86	71	Air+Mist (Brown)		16.3 occasiona 16.45 16.5 occasiona 16.5	5-16.37: Clay and mudstone 8-16.59m: 63°, undulating, al black staining, incipient. 5-16.79: Clay and mudstone 51-16.65m: 66° undulating al black staining incipient. 6.89-16.95m: Clay, siltston	rough, - e. rough -	
_ (0:04 _ - _ _ 16.23	l) 3-16.34	30	С							infill. 15.9 abundant	5.83-15.85m: Planar, rough 0-16.08m: 82°, undulating, black staining, incipient. 5-16.23: Clay and mudstone	rough,	
- - - 15.7:	5-17.25	5			<u> </u>			<u> </u>		with reddi 15.59	9-15.64m and 15.70-15.75n 5-15.83m: Grey siltstone.	n: NI.	
- - - 15.3	8-15.47	29	D					A ()		undulating undulating 15.38	14.87-14.89m: 9°, clay g, rough. 3-15.46m: Clay.	infill,	
- - -					87	75	75	Air+Mist (Brown)		13.86 13.86 rough, oc	undant black staining. 5-13.90m: Siltstone. 89-14.07m: 88°, incipient, _l casional black staining. 5-14.45m: AZCL.	-	
	6-14.69		С							siltstone (86-13.89m: 11°, incipient, ¡		
(0:04	5-15.75 1) 6-14.50	27	С			*	 	*		13.50 13.53	0-13.53m: Grey siltstone. 3-13.55m: Sandstone. 5-13.57m: 4°, clay infill.	مائندر امر	
-					100	95	89	Air+Mis (Brown		(MERCIA	al to abundant black staining MUDSTONE GROUP) copied from 10.48m from pr		



BOREHOLE LOG

Contract:									Cli	ent:				DOILLI	Boreho		
		EMC	3 Pha	se 2										SEGRO			BH01
Contract Re	f:			Start:	05.	09.	22	Grou	ınd L	evel	(m /	AOD):		National Grid Co-ordinate:	Sheet:		
7	765	514		End:	13.	09.	22		8	39 .	22			E:446551.3 N:325384.8		5	of 16
		Sample	s & Tes	ting		М	echa	anical	Log		s in	ă ' ë	<u>~</u>			Depth	Materia
Depth (m)	Depth (m) No Type Results TCR (%)					CR (%)	RQD (%)	If (mm)	Flush	Return & Deta	Backfi Instru mental	Water	Description of Strata		(Thick ness)	Graphic Legend	
17.93-18.18	31	С												17.73-17.93m: 77° undulating abundant black staining and occ			

Depth					TCP	SCP	RQD	Ιf	H 를 됐	를 갈 할	Water		Description of Strata		hick (Gr
(m)	No	Туре	Resu	ılts	(%)	(%)	(%)	(mm)	Flush Returns & Detail	Backfill Instru- mentati	>		Boothpater of Gardia			Le
17.93-18.18 - - - - - - 18.75-20.25	31	С			100	82	73		Air+Mist (Brown)			abundant yellow sta Extremely MUDSTC beds (<90 (MERCIA 17.25 17.25m fr	73-17.93m: 77° undulating black staining and occining. 7 weak to weak unlone. 8 weak to weak unlone. 9 weak to weak unlone.	bedded - iltstone - co	3.00)	
_ (0:04) - - - - - - - - - - -	32	С			100	100	100		Air+Mist (Brown)			18 abundant 18.30 18.4 abundant 1 abundant 18.6 18.7 black stai 19.50 19.62	.20-8.30m: 60° undulating black staining.)-18.36m: Clay. 18.42-18.43m: 7° planar al black staining. 42-18.50m: 70° undulating black staining. 8.50-18.56m: 35° planar black staining. 7-18.73m: Grey siltstone. 78-19.05m: 87° planar rougning incipient. 0-19.52m: Grey siltstone. 26-20.03m: 52° undulating.	rough rough gh rare		
- - 20.25-21.75 _ (0:06) - -					*	•			Mist wn)			Extremely grey, unb to freque siltstone. (MERCIA 20 siltstone.	weak reddish brown, redded MUDSTONE. Occ nt, closely spaced beds of MUDSTONE GROUP) 25-20.51m: Medium strond-21.05m: Thinly and thickly	mottled - asional - of grey - ng grey -	0.25	
- - 21.14-21.37 - - 21.37-21.58 -		C C			100	100	100		Air+Mist (Brown)			siltstone.	37-21.80m: Medium stron			
- 21.75-23.25 _ (0:05) - - - -					100	100	100		Air+Mist (Brown)			>3mm cla	4-21.70m: 23°, undulating, ny infill, occasional black sta 80-21.92m: Medium stron	aining.	3.23)	
																=
		Progress Borel	and Wat	er Obs	Boreh	ole	Wate	er		Ť		Progress Duration	General I	Remarl	KS	
Date T	ime	Dep		epth	Diame (mn	eter	Dept	- 11	From	1	Го ——	(hh:mm)				
													All dimensions in metres	Scale:	1:25	_
	Insp	ection p	oit +	Plant	_	ando	3000	 Mark 2	2 +	Drille	d Jo	⊥ nny Hutt +	Logged JAlton +	Checked	1.23	
Used: Ca		Percuss	• •	Used		omac				By:	_	am Carter	By: RStan	By:		

e L		Boring Pro	ogress and	Water O	bservations		Chisel	ling / Slow F	Progress	General Remarks				
5	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (bbumm)	General	Remai	KS		
asııı	Bato	Depth		Depth	(mm)	Depth			(hh:mm)					
ر														
2														
5														
ä														
ā,														
<u>ار</u>														
8										All dimensions in metres	Scale:	1:25		
UCITIE	Method Used:					o 3000 Mar	I		ny Hutt +	Logged JAlton + Bv: RStan	Checked Bv:		MGS	



Contract:							Clie	ent:				Boreho		
EMG Phase 2						SEGRO							BH01	
Contract Ref: Start: 05.09.2		9.22	Grour	nd Le	vel (r	n AOD):		National Grid Co-ordinate:	Sheet:					
7	'65 5	514	End:					9.2			E:446551.3 N:325384.8		6	of 16
D 41-		Samples &	k Testing	Mechanica TCR SCR RQI (%) (%) (%)		anical L	_og	SL:	alls Tion	ē			Depth	
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%) (If (mm)	Flush	& Det Backf Instr menta	Water	Description of Strata		(Thick ness)	Graph Leger
22.51-22.76 - 23.25-24.75 (0:07)		С		100	100		_	Air+Mist (Brown)			Extremely weak reddish brown, grey, unbedded MUDSTONE. Occ to frequent, closely spaced beds siltstone. (MERCIA MUDSTONE GROUP) 20.25-20.51m: Medium stror siltstone.(stratum copied from 20.25 previous sheet)	asional of grey	-	
23.68-24.02	36	С		100	100	100		Air+Mist (Brown)			Weak to medium strong reddish mottled grey, fine and medium grain SANDSTONE. Frequent beds c siltstone. (MERCIA MUDSTONE GROUP)	ed silty	(0.64)	
24.75-26.25						*					Weak reddish brown, mottled unbedded MUDSTONE. Occasion frequent beds of grey siltstone. (MERCIA MUDSTONE GROUP)	grey, nal to	- 24.12	
(0:06) (24.75-24.98		С		100	100	100		Air+Mist (Brown)	()		25.39-25.46m: 39° undulating occasionally yellow staining in fracture 25.40-25.46m: 26° undulating occasionally yellow staining in fracture 25.44-25.49m: 29° undulating occasionally yellow stained in	rough ncipient rough	-	

	Boring Pro	Water Ob	servations		Chisel	ling / Slow F	rogress	General Remarks				
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	NS	
			•									
,												
									All dimensions in metres	Scale:	1:25	
Method Used:	Inspection pit + Plant Dando 3000 Mar Cable Percussion + Used: Comacchio GEC						ny Hutt + m Carter	Logged JAlton + By: RStan	Checked By:	1.25	AGS	

Air+Mist (Brown)

100 100 100

siltstone.

. . . 26.41-26.46m: Medium strong grey siltstone.

. . 26.67-26.72m: Medium strong grey

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 - 10:29 | TC9 |

26.25-27.75 (0:06)



BOREHOLE LOG

Contract:				C	Client:		Boreho	le:		
	EMG Pha	se 2				SEGRO			В	H01
Contract Ref		Start:	05.09.22	Ground	Level (m AOD):	National Grid Co-ordinate:	Sheet:			
7	'65514	End:	13.09.22		89.22	E:446551.3 N:325384.8		7	of	16
	Samples & Test	fina	Macha	nical Loc	a			I	Τ	

		Samples	& Testing	1	Mecha	anical	Log	ø	s	<u></u>		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	lf (mm)	Flush	& Details Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
- - 27.23-27.49 - -	38	С		100	100	100	,	Air+Mist			Weak reddish brown, mottled grey, unbedded MUDSTONE. Occasional to frequent beds of grey siltstone. (MERCIA MUDSTONE GROUP) (stratum copied from 24.12m from previous sheet) 27.13-27.26m: Weak to medium strong grey siltstone 27.25-27.30m: 21° planar rough	- -(6.63)	
- 27.75-29.25 _ (0:07) 	5				 	X	-	X			occasional yellow staining incipient 27.26-27.48m: Reddish brown sandy MUDSTONE 27.88-27.92m: 20° planar rough. Rare black staining incipient 28.13-28.23m: Weak grey siltstone.	- - - -	
- 27.75-29.25 - (0:07) - 28.61-29.00 - 29.25-30.75 - (0:05) - 29.76-29.98	39	С		100	100	100		Air+Mist	(Brown)			-	
- 29.25-30.75 _ (0:05)	5				X		-	X			29.28-29.78m: Interbedded with weak grey siltstone.	-	
- - 29.76-29.98 - - -	40	С		97	97	97		Air+Mist	(Brown)			- - - -	
-											30.26-30.32m: Medium strong grey siltstone 30.41-30.49m: 51° undulating rough occasionally stained yellow, incipient.	-	
- - -				-	 ₩	 		*			Borehole terminated at 30.75m depth.	- 30.75 - - - -	
-												-	

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress	General	Domorl	ko	
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 P	ction pit + ercussion -	Plan Used		3000 Mar cchio GEC			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 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	H02
Contract Ref:	Start:	06.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	15.09.22		77.03	E:446011.8 N:324862.	5	1	of	12

Ī			Sample	s & Testing	ľ	Mecha	anical	Log	s iii	& ¹ ig	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfi Instru	Water	Description of Strata	(Thick ness)	Graphic Legend
Ī	-										1	TOPSOIL		<u> </u>
29 TC9	0.30 0.30-0.50 0.50	1 2 101	D B ES	1xT+1xJ+1xV								Firm to stiff brown slightly sandy gravelly CLAY. Low boulder content. Gravel is angular to rounded coarse of sandstone and mudstone.	0.20	××
11/12/22 - 10:2	0.70	3 4	D B									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							D •	Very stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine and	1.00	· <u> </u>
≣mail: ask@so⊪	1.20	5 6	D UT _(UT100)	150 blows 100% recovery								medium and mudstone derived. Gravel is angular to subangular fine and medium extremely weak mudstone lithorelics. (MERCIA MUDSTONE GROUP) 1.00-4.15m: frequent thin laminae	-	
30.uk,	1.55-1.65	7	D									(<2mm) of siltstone.	-	
v.soils.o	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@solls.co.uk. 11/1/2/22 - 10:29 TC9	2.00-2.45 2.00-2.45 2.00-2.45	10 11	SPT DSPT B	N=35						(<u> </u>	• • • • • • • • • • • •		(3.00)	
01977-552255, F	2.70	12	D								•		- - -	
J. Tel:	3.00-3.36		SPT	6,8/16,19,15 for 60mm									-	
rorkshire, WF10 1N	3.00-3.36 3.00-3.36	14 15	DSPT B	IOI GOTTIITI							•		- - -	
astleford, West \	3.70-3.70	16	D											
Pottery Street, Ca	4.00-5.00 (0:07) 4.00-4.42			3,8/12,14,14,10 for 40mm	45	0	0		Air+Mist — (Brown)			AZCL. (MERCIA MUDSTONE GROUP)	4.00	AZCL
tteries, F	4.00-4.42	18	DSPT						A				-	

The		Boring Pro	ogress and	Water C	bservations		Chisel	ling / Slow F	rogress	General	Domarka
Castleford:	Date	Time	Borehole	Casing Depth	Diameter	Water Depth	From	То	Duration (hh:mm)	General	Remarks
asi			Depth		(mm)				,	1. Position cleared using C	AT and Genny
-	06/09/22	17:49	3.40	3.00	200	Dry	3.00	3.40	00:30	2. Hand dug inspection pit t	
lice	07/09/22	08:06	3.40	3.00	200	Dry	3.40	4.00	00:45	3. Drilled using 200mm dia	
Branch Offi	07/09/22	11:00	4.00	2.00	200	-				4. SPT hammers AR3104-2	2022 (<i>E</i> _r = 64.00%),
anc	16/09/22	08:50	8.00	4.00	146	6.40				AR3830-2021 ($E_r = 67.0$	0%) used.
Bra	16/09/22	15:25	21.50	4.00	146	20.60					
Ľtď	15/09/22	14:00	4.00	None	200	3.50					
Soils	15/09/22	17:00	8.00	4.00	146	7.65					
										All dimensions in metres	Scale: 1:25
Structural	Method Used:	Cable Po	tion pit +	Pla Us		ndo 3000 cchio GEC			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 1NJ. Tel: 01977-552295, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:29 | TC9 |

Rotary Cored

8.25

reddish

weak MUDSTÓNE thinly interbedded with very

weak greenish grey siltstone and beds of reddish brown thinly laminated clay.

GRADE II.

(MERCIA MUDSTONE GROUP)

...8.40-8.42m: Greenish grey siltstone. ... 8.75-9.15m: NI, recovered as angular to subrounded fine to medium gravel of

STRUCTURAL SOILS

Contract:							Clie	ent:				Boreho	ole:	
		EMG	Phase 2								SEGRO			BH02
Contract Re	f:		Start	06.09	9.22	Grour	nd Le	vel ((m AOD):		National Grid Co-ordinate:	Sheet:		
7	765	514	End:	15.09	9.22		7	7.0)3		E:446011.8 N:324862.5		2	of 12
		Samples	s & Testing	1	Mecha	anical L	_og	S	sils L- tion	in in			Depth	Mate
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%) (lf mm)	Flush	& Details Backfill & Instru-	Water	Description of Strata		(Thick ness)	Grap Lege
4.90 5.00-6.50 (0:07)	19	D		45	0	0		Air+Mist	L;;H;;}		Firm to stiff reddish brown slightly gravelly CLAY with rare fine to rigravel size pockets of silt. Sand is coarse and mudstone derived. Grangular to subangular fine to rigurdation lithorelics. GRADE III. (MERCIA MUDSTONE GROUP) 5.00-5.30m: AZCL.	nedium fine to avel is	4.55	
				80	0	0		Air+Mist	(Brown)				(2.70)	
6.30 6.50-7.25 (0:03) 6.50-6.95	20	SPT	N=41	47	0	0		Air+Mist	(Brown)		6.50-6.90m: AZCL.		-	
7.20 7.25-8.00 (0:03)	21	D			 	*	-	*			Extremely weak reddish MUDSTONE. GRADE II. Fractures: Closely spaced, ra	brown ndomly	7.25	
7.55-7.70	22	С		109	109	85		Air+Mist	(Brown)		orientated, tight, black staining on su (MERCIA MUDSTONE GROUP)	rfaces.	(1.00)	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	Conoral	Domorl		
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:	p							ny Hutt + m Carter	Logged DNeylon + By: JAlton	Checked By:		AGS

(Brown)

97

15 0

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 - 10:30 | TC9 |

8.00-9.50 (0:00)

8.90

23

D

Rotary Cored

Op												BOKEHO)LI		.UG
Contract:								Cli	ent:			В	oreho	le:	
		EMO	G Pha	se 2								SEGRO			BH02
Contract Re	ef:			Start:	06.0	9.22	Grou	nd Le	evel (m	AOD):		National Grid Co-ordinate: S	heet:		
	765	514		End:	15.0	9.22		7	77.03	}		E:446011.8 N:324862.5		3	of 12
		Sample	s & Test	ting	I	Mech	anical	Log	SI SI SI SI	II &	ē			Depth	Material
Depth (m)	No	Туре	Res	sults	TCR (%)	SCF (%)	RQD (%)	If (mm)	Flush Return	Backfill & Instru-	Water	Description of Strata		(Thick ness)	Graphic Legend
-					97	15	0		_ (Brown)			MUDSTONE thinly interbedded with weak greenish grey siltstone and bed	own very s of clay.	(2.05)	

mudstone. Extremely weak reddish brown MUDSTONE thinly interbedded with very (2.05) (2	(111)	INO	Type	Nesui	113	(%)	(%)	(%)	(mm)	⊞ CC ≪	<u> </u>				'	ness)	Leá
10.60 24 D						97	15	0		(Brown)			Extremely MUDSTC weak gre reddish GRADE I (MERCIA (stratum (sheet) 9.50	weak reddish NE thinly interbedded with enish grey siltstone and be brown thinly laminated I. MUDSTONE GROUP) copied from 8.25m from pre	evious	2.05)	
11.50-11.75 25 C 10.00 1.50	10.60	24	D			97	45	20		(Brown)			Extremely MUDSTC Fractures orientated black stail (MERCIA 10.30 gravel si	im: Siltstone. weak reddish NE. GRADE II. Very closely spaced, ran , smooth, planar, undu ning on surfaces. MUDSTONE GROUP) 0-10.80m: Frequent fine to c	brown - domly - lating, - coarse	10.30	
12.50-14.00 (0:00) 100 80 40 100 80 40	(0:00) - - -		С			100	67	20		(Brown)			sample br	eaking easily when handled I.20-12.00m: Occasional fi gravel size pockets of gre	ine to		
Bering Drawnes and Water Characters Chinaling (Clay Brawnes)					_	100	80	40		(Brown)			12. sandy CL	25-12.30m: Reddish browr AY.	,	3.85)	
Boring Progress and Water Observations Chiselling / Slow Progress Chiselling / Slow Progress General Remarks From To Duration (ht.mm)	Во	ring F			sina	Boreh	ole	Wate	ar .	Chise	Ť			General F	Remar	·ks	
														All dimensions in metres	Scale:	1:25	 j
All dimensions in metres Scale: 1:25	Method		ection p		Plant			ndo 30			Drilled	Jon			Checked		

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)				
ָ ו													
5													
5													
ם ם													
Ę.													
200										All disconnigue in secture	Caalar	4-05	
<u>,</u>							Ш			All dimensions in metres	<u> </u>	1:25	_
<u> </u>	Method		tion pit +	Pla	_	ando 3000			ny Hutt +	Logged DNeylon +	Checked		
=	Used:	Cable Po	ercussion :	+ ∣Us	ed: Coma	acchio GEO	O 601	Bv: Sa	m Carter	Bv: JAlton	Bv:		Mas

BOREHOLE LOG

Op											BOKEH	UL	E L	.UG
Contract:							Cli	ent:				Boreho	ole:	
		EMG	Phase 2								SEGRO			BH02
Contract Ref			Start:	06.09	9.22	Grou	and Le	evel (m AOE)):	N	lational Grid Co-ordinate:	Sheet:		
7	655	514	End:	15.09	9.22		7	77.03		L	E:446011.8 N:324862.5		4	of 12
		Samples	& Testing	ı	Mecha	anical	Log	S = 8 -7	ig i	T			Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details Backfill &	• mentatio Water		Description of Strata		(Thick ness)	Graphic Legend
13.70-13.85	26	С		100	80	40		(Brown)	*, * , * , * , * , * , * , *		13.55-13.70m: Coarse grave pockets and lenses of greenish siltstone.	el size grey	- - -	
14.00-15.50 (0:00)				*	X	X			`.`		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)	
- - -													-	
- 15.50-17.00 (0:00) 15.65-15.85		С		X	X	X		V			Extremely weak reddish brown laminated MUDSTONE thinly intertwith extremely weak greenish grey si with occasional clay bands laminae/bedding. (MERCIA MUDSTONE GROUP)	edded	15.30	
- - - - -				97	37	23		(Brown) ————————————————————————————————————			15.90m: Thickly laminated siltsto Very weak reddish brown MUDS* GRADE II. Fractures: Closely spaced, rar orientated, tight. (MERCIA MUDSTONE GROUP)	TONE.	16.00	
- - - - - 17.00-18.50				X	X	X		***	· ¸ • • • • • • • • • • • • • • • • • •				(1.15)	
- (0:00) 				97	59	30		(Brown)	· · · · · · · · · · · · · · · · · · ·		Extremely weak reddish MUDSTONE with fine to coarse sized pockets and lenses (<10m greenish grey siltstone. GRADE II. Bedding fractures: Very closely standard fractures.	m) of paced,	17.15 - (0.40) - 17.55	
17.60-17.70	29	С						(E	• ¸ • • • • • • • • • • • • • • • • • •		rough, planar, infilled with reddish clay. (MERCIA MUDSTONE GROUP) 17.20-17.25m: Recovered as medium angular gravel.		-	

	Boring Pr	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domor	ko	
Dat	e Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS .	
}					-							
ī												
									All dimensions in metres	Scale:	1:25	
Metho Used:	Cable P	ction pit + ercussion -	Plan Used		ando 3000 cchio GEC			ny Hutt + m Carter	Logged DNeylon + By: JAlton	Checked By:	1.20	AGS



Contract:							Cli	ent:				Boreho		
		EMG	Phase 2								SEGRO			BH02
Contract Ref			Start:	06.0	9.22	Grou		evel (m	AOD):		National Grid Co-ordinate:	Sheet:		
7	655	514	End:	15.0				77.03			E:446011.8 N:324862.5		5	of 12
Depth (m)	No	Samples Type	& Testing Results		Mecha SCR (%)	RQD	Log If	Flush Returns & Details	Sackfill & Instru- nentation	Water	Description of Strata		Depth (Thick ness)	Materia Graphic Legend
18.50-20.00 (0:00)		71		97	59	30	(11111)	(Brown)			Very weak reddish brown MUDS GRADE II. Fractures: Closely spaced, rorientated, smooth, undulating, staining on surfaces. (MERCIA MUDSTONE GROUP) (stratum copied from 17.55m from picture sheet) 18.15-18.20m: Very clayey ar subangular fine gravel of mudstone 18.35-18.40m: Extremel greenish grey siltstone 18.95-19.00m: Stiff greenish greenish gravelly CLAY. Gravel is and mudstone lithorelicts.	andomly black previous gular to y weak ey silt. reddish	-	
19.55-19.65	30	С		100	53	40		(Brown)			19.45-19.55m: Weak green fine grained sandstone.	sh grey	-(3.95)	
20.00-21.50 (0:00)				*		X		<u> </u>			19.95-20.00m: Greenish grey s	iltstone.	- - - -	
21.00-21.10	31	С		90	73	55		(Brown)			20.50-20.55m: Coarse gra pockets of greenish grey siltstone.	vel size	-	
						V					Cable percussion borehole termir 21.50m depth.	ated at	21.50	

	Boring Pr	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domor	ko	
Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remai	KS	
l 		Depth	Depth	(mm)	Depth		-	,				
:												
!												
i r												
									All dimensions in metres	Scale:	1:25	
Method Used:	Inspec		ando 3000	+	Drilled Jon Bv: Sa i	ny Hutt + m Carter	Logged DNeylon + Bv: JAlton	Checked Bv:		Mes		

BOREHOLE LOG

Contract Ref: Start: 07.09.22 Ground Level (m AOD): National Grid Co-ordinate: Sheet:		le:	Borehole		Client:			Contract:
	BH03			SEGRO			se 2	EMG Pha
765544 Feet 24.00.22 76.00 Fe446042.2 Ne224964.9 4			Sheet:	National Grid Co-ordinate:	round Level (m AOD):	07.09.22 Gro	Start:	Contract Ref:
765514 End: 21.09.22 76.50 E.446012.5 N.524664.6 I	of 11	1		E:446012.3 N:324864.8	76.90	21.09.22	End:	765514

L	-	000	•	Liiu.	21.0				0.50				-	01 11
[Sample	s & Testing	1	Mecha	anical	Log	s <u>s</u>	≡	_		Depth	Material
	Depth				TCR	SCR	RQD	If	Flush Returns & Details	Backfill	Water	Description of Strata	(Thick	Graphic
	(m)	No	Type	Results	(%)	(%)	(%)	(mm)	& Ret C	m	>	•	ness)	Legend
İ								,				TOPSOIL		7417. 7/17. 7
ŀ	-												(0.35)	17.311, 37
ŀ	-									*****			·	
ŀ	-									******			0.35	
- 3	0.40-0.40	4	Ь							******		Stiff reddish brown, mottled grey, slightly	-	<u></u>
- 10:30 CB	0.40-0.40	1 2	D B									sandy gravelly CLAY. Gravel is subangular	-	
0:3 	0.50-0.50	101	ES	1xT+1xJ+1xV						⋘		fine to coarse of mudstone and siltstone lithorelics. Low cobble content of tabular	-	
	0.60-1.00	4	В							\bowtie		siltstone. Frequent beds (<300mm) of silt /	-	
7/7	0.70-0.70	3	D							*****		siltstone.	_	
77/71/11	_									₩₩		(MERCIA MUDSTONE GROUP)		
- 1	_													· · · · ·
0.00	1.00-1.00	5	D											· • · · · •
SIIS	1.00-1.45	400	SPT	N=25						******				
(@s	- 1.00-1.00 - 1.00-1.45	102 7	ES DSPT	1xT+1xJ+1xV						222				
ask	1.00-1.45	8	В										-	
la I	1.00 1.10	ľ								///1			1	
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o.uk	-									///1			-	
S.C	1.70-1.70	9	D										-	
v.so	1.70-1.70	٦								///1			-	
	-									////			-	
ep:	-0.00.0.45		ODT	N O4						///1		D 1 000 1/ 1:#	-	
ک	2.00-2.45 2.00-2.45	11	SPT DSPT	N=31								Below 2.00m: Very stiff.	-	· · · · ·
Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.	2.00-2.45	12	В							///1			-	· · · · · · o
ç,	-									///			_	
761	_									///1			(4.15)	
X	_									///			[(,	
, Ta	_									///1			L	
200										///				<u>••••</u>
200	2.70-2.70	13	D							///1				
778	-									///				<u> </u>
5	-									///1			-	
<u>•</u>	3.00-3.44		SPT	6,8/8,15,15,12						KZZ]			<u> </u>	
Yorksnire, WF10 1NJ. Tel: 01977-552255,	-			for 60mm						[///]			t	<u> </u>
₽┝	3.00-3.44	15	DSPT							<u> </u>			ŀ	
<u> </u>	3.00-3.45	16	В										<u> </u>	<u>•••••</u>
<u>e</u>	-									222			}	
Orks	-												ŀ	
	-									222			}	
× ×	0.70.0.70	, ,	_							////			-	
g,	3.70-3.70	17	D							[22]			-	<u> </u>
stler	-												-	<u>├</u>
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eer,	4.00-5.00				♠	🐧	1		♦	///		4.00-4.50m: AZCL.	L	ļ
7	(0:00)		CDT	1 5/10 15 17 C					آج	[///]			L	
iter	4.00-4.39		SPT	4,5/12,15,17,6 for 15mm	45	0	0		(Brown)	K///				<u> </u>
oueries, Pottery Street, Castleford, West	4.00-4.39	19	DSPT	101 10111111		_			(B	[///]				
SE										Y///			4.50	<u> </u>
į L				1		ш				v / / .			1.00	

The		Boring Pr	ogress and	Water Ob	servations		Chisel	lling / Slow F	rogress	Conorali	Damarl	·	
astleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General I	Remark	'S	ļ
astle			Depth	Depth	(mm)	Depth			(1111.111111)	1 Desition algored using C	AT and Conr		
Ltd, Branch Office - C	07/09/22 20/09/22 20/09/22	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 C₁ Hand dug inspection pit t Drilled using 200mm diat Borehole backfilled with I completion. SPT hammer AR3104-20 	to 1.20m. meter tools ar bentonite upo	and casir on	J
ral Soils										All dimensions in metres	Scale: 1	1:25	
Structura	Method Used:					o 3000 Mar acchio Geo			nny Hutt + m Carter	Logged JAlton + By: RStan	Checked By:		AGS

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STRUCTURAL SOILS

BOREHOLE LOG

Contract:			(Client:			Boreho	ole:		
E	MG Phase 2					SEGRO			BH	103
Contract Ref:	Start:	07.09.22	Ground	Level (m A	OD):	National Grid Co-ordinate:	Sheet:			
765514	End:	21.09.22		76.90		E:446012.3 N:324864.8		2	of	11
Sar	noles & Testing	Mecha	nical Loc	lo r	_			D 41-	N 4 -	

	765	514	End:	21.09	9.22		76.	<u>90</u>			E:446012.3 N:324864.8	2	of 11
		Samples	& Testing	ı	Mecha	anical Lo	g ,	s <u>s</u>	=	_		Depth	Materia
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%) (m	If Fan L	& Deta	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 laminated, locally very thinly bedded, reddish brown silty CLAY with occasional to frequent angular to subangular fine to medium gravel size lithorelics of mudstone. Occasional laminae (5 to 10mm) of extremely weak siltstone. GRADE III. (MERCIA MUDSTONE GROUP)	- - - - -	
5.80	21	D		100	10	0		(Brown)			5.72-5.76m: Very weak light grey siltstone.	- (2.30) - - -	X X X X X X X
6.50-8.00 (0:00)				X	*	*					6.22-6.28m: Very weak light grey siltstone 6.39-6.46m: Very weak thinly to thickly laminated reddish brown mudstone. Bedding fractures are extremely closely spaced, 0°, undulating, smooth, <1mm soft clay on surfaces.	6.80	XXX XXXXXXXXXXXXXX XX
7.10	22	D		93	6	0		(Brown)			6.59-6.71m: Extremely weak thickly to very thinly bedded light greenish grey siltstone. Bedding fractures are extremely closely spaced, undulating, smooth, with a little clay smear and occasional black specks on surfaces. Extremely weak, locally very weak, very	- - -	
_						3	NI 30	(F			thinly bedded reddish brown MUDSTONE. GRADE II. Discontinuities: Extremely closely to closely spaced, randomly orientated, undulating, smooth, black stained, locally clean. Rare thin clay smears on surfaces. (MERCIA MUDSTONE GROUP) 7.01-7.04m: Siltstone recovered as	-	
8.00-9.50 (0:00)											gravelly clay 7.11-7.28m: 75° to 80° undulating rough discontinuity with 1m clay on surfaces 7.30-7.33m: Moderately weak light	- (2.22)	
8.50	23	D		97	11	0		(Brown)			greenish grey siltstone 7.33-7.60m: 80° to 90° undulating rough clean discontinuity 7.78-7.86m: Band of extremely weak light greenish grey siltstone 8.05-8.30m: 80°-90° undulating smooth black stained discontinuity.	(3.30)	

[Boring Pro	ogress and	Water O	bservations		Chisel	ing / Slow F	rogress	Comerci	D = 100 = 11	ادم	
5	Date	Time	Borehole	Casing	Diameter	Water	From	То	Duration (hh:mm)	General	Remar	KS	
į			Depth	Depth	(mm)	Depth			(
2													
5										All dimensions in metres	Scale:	1:25	
) I	Method Used:		tion pit +	Pla + Use		o 3000 Mar			ny Hutt +	Logged JAlton + Bv: RStan	Checked Bv:		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: 01977-552255, Fax: 01977-552299, Wet



Op												BOKEH	OL	EL	.UG
Contract:								С	lient:				Boreho	ole:	
		EMO	G Pha	se 2								SEGRO			BH03
Contract Re	ef:			Start:	07.0	9.22	Grou	ınd L	evel (m	AOD):		National Grid Co-ordinate:	Sheet:		
	765	514		End:	21.0	9.22			76.90			E:446012.3 N:324864.8		3	of 11
		Sample	s & Tes	ting	I	Mech	anical	Log	IS ails	≣	<u>m</u>			Depth	Material
Depth (m)	No	Туре	Res	sults	TCR (%)	SCR (%)	RQD (%)	If (mm	Flush Returns & Details	Backfill	Water	Description of Strata		(Thick ness)	Graphic Legend
-					97	11	0		Brown)			8.87-8.93m: 60°-70° und smooth black stained discontinuity. Extremely weak, locally very weathinly bedded reddish brown MUDS	k, very	-	

Depth (m)	1 1													
(111)	No	Туре	Results	(%		RQD (%)	(mm)	Flush Returns & Detail	Backfil	Water		Description of Strata	(Th	
9.43 9.50-11.00 (0:00)	24	С		97	11	0	- NI 30 90	(Brown)			smooth bl Extremely thinly bed GRADE I Discontin spaced, smooth, I thin clays (MERCIA	8.87-8.93m: 60°-70° und ack stained discontinuity.	c, very - TONE closely ulating, - . Rare -	
9.94	25	С										9.40-9.50m: 40°-50° und lack stained discontinuity.	ulating10.	10
				100	53	38		(Brown)			reddish bi Bedding t spaced,	k very thinly to medium brown MUDSTONE. GRADE fractures: Very closely to n 0° to 5°, undulating, sack stained, occasionally	EII. nedium mooth,	
							NI 70 300				(MERCIA 10.10 locally bla little clay s	MUDSTONE GROUP) 0-10.27m: 75° undulating s ack stained, discontinuity, smear on surfaces. 10.46-10.49m: Very weal	with a	0)
11.00-12.50 (0:00)							 				black stai 10.4 10. extremely	grey siltstone. 7-10.56m: 65° undulating s 7-10.56m: Rendulating s 56-10.73m: Randomly orie closely to very closely s g smooth clean discontinuiti	entated spaced	20
11.45	26	С		97	68	51		(Brown)			diameter l 10.8 discontinu surfaces 10. extremely undulating	0.70-11.00m: Occasional 3 ight grey reduction spots. 0-10.86m: 40° undulating suity with a little clay smooth closely to very closely seem to seem to cally scontinuities.	3-5mm - smooth - ear on - entated - spaced _	
12.50-14.00 (0:00)	0			 	 	<u> </u>	NI 20 120	<u> </u>			bedded GRADE I Bedding closely smooth, I stained	fractures: Extremely closspaced, 0° to 5°, undocally rough, clean, locally	rone Carrielle (Carrielle)	8)
				97	37	8		(Brown)			greenish greedium siltstone i 11.79 extremely	9-11.80m: 2 no laminae (<2	fine to	38
									///		siltstone.			
		Progress	and Water	ng Bore	hole	Wate	er		Ť		Progress	General I	Remark	5
Date	Time	Dep	_	o Diar	neter m)	Dept	- 11	From	T	0	(hh:mm)			
												All dimensions in metres	Scale: 1	:25
l l														

2		Boring Pro	ogress and	Water O	bservations		Chisel	ling / Slow F	Progress	Conoral	Domor	ادم	
5	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Remai	KS	
	Date	TITLE	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)				
)													
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ĺ													
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ō										All dimensions in metres	Scale:	1:25	
3	Method		tion pit +	Pla		o 3000 Mar			ny Hutt +	Logged JAlton +	Checked		
-	Used:	Cable Po	ercussion :	+ ∣Use	ea: Coma	acchio Geo	602	Bv: Sa	m Carter	Bv: RStan	Bv:		MAS

BOREHOLE LOG

120											BOKEH	UL		.UG
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		EMG P	hase 2				<u> </u>	.,		_	SEGRO			BH03
Contract Ref		-44							AOD):		National Grid Co-ordinate:	Sheet:		. 44
7		514	End:	_				76.90			E:446012.3 N:324864.8		4	of 11
Depth (m)	No	Samples & Type	Testing Results	TCR	Mecha SCR	RQD	_og lf	Flush Returns & Details	Backfill	Water	Description of Strata		Depth (Thick	
13.83 14.00-15.50 (0:00)	27	С	INESULIS	97	37	8	<u>(mm)</u>	(Brown) (Brown)			grey siltstone 12.30-12.50m: Rare light g grey siltstone 12.30-12.50m: Rare light g grey reduction spots 12.30-13.20m: Extremely clc very closely spaced randomly ori undulating smooth, locally rough, locally black stained discontinuities 13.00m: Thin lamination (<5 extremely weak siltstone 13.15-13.18m: Moderately greenish grey siltstone. Extremely weak to very weak very thinly bedded reddish brown MUDS GRADE II. Bedding fractures: Very closely to spaced, 0° to 15°, undulating, se	reenish osely to entated clean, mm) of weak hinly to. TONE.	ness)	Legellu
15.17 - - - - - 15.50-17.00 - (0:00)	28	С		_	*	*	NI 20 120	(B)			black stained, with occasional specks. (MERCIA MUDSTONE GROUP) (stratum copied from 13.38m from p sheet) 13.50-13.58m: Extremely we greenish grey clayey siltstone. 13.58-13.61m: Very wea greenish grey siltstone. 13.71-13.74m: Very wea greenish grey siltstone. 14.48-14.68m: 85° to 90° under rough discontinuity with frequence.	black revious ak light ak light ak light dulating	- -(3.49) - - - -	
16.00	29	С		97	40	27	•	(Brown)			specks 14.62-14.67m: 45° undulating discontinuity with frequent black sperare in 14.80-14.81m: Extremely we greenish grey siltstone 14.97-15.00m: Weak light grey siltstone 15.01-15.21m: Frequent thin (<5mm) of extremely weak to versiltstone 15.34-15.50m: 80° to 90° undulating to 90° undulating to 90° undulati	cks. ak light reenish aminae y weak dulating	16.87	
- 17.00-18.50 - (0:00) - - - - - -				100	63	37	NI 50 230	(Brown)			clean discontinuity locally black stair 15.66-15.72m: Drilling disturbed 15.73-15.82m: 50° undulating discontinuity with 1mm clay infill 15.82-15.86m: Very wea greenish grey siltstone 16.13-16.52m: Extremely closely spaced, randomly orientate stained, locally clean, discont Occasional black specks on surface 16.32-16.48m: 80° to 90° und smooth black stained discontinuity 16.48-16.51m: (Soft to fire greenish grey gravelly silt.	ned. I. smooth Ik light Ito very d black inuities. Ito s. Ito dulating		

		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		
<u>.</u>					()								
;										All dimensions in metres	Scale:	1:25	
	Method Used:		tion pit + ercussion -	Plan Used		o 3000 Mar acchio Geo			⊔ ny Hutt + m Carter		Checked By:	1.23	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 - 10:30 | TC9 |

Rotary Cored

BOREHOLE LOG

•												20.12			. •
Contract:								CI	ient:				Boreho	le:	
		EMC	3 Pha	se 2								SEGRO			BH03
Contract Ref	f:			Start:	07.0	9.22	Gro	und L	evel (m	AOD):		National Grid Co-ordinate:	Sheet:		
7	765	514		End:	21.0	9.22		•	76.90			E:446012.3 N:324864.8		5	of 11
Donth	Samples & Testing					Mech			ns ails	IIII	ter			Depth	Material
(m)	No	Туре	Res	sults	TCR (%)	SCR (%)	RQE (%)	lf (mm	Flush Returr & Deta	Backfill	Water	Description of Strata		(Thick ness)	Graphic Legend
										///		10.00 10.00 TI: I	41 * 1.1		

				21.0	9.22		ı	0.50			E.440012.3 N.324004.0	อ	OT II
				1	Mech	anical	Log	s s	=			Depth	Materia
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata	(Thick ness)	Graphi Legen
18.28 18.50-20.00 (0:00)	30	С		100	63	37	NI	(Brown)			laminated	- -(3.13) - -	
9.30	31	С		100	49	28	50 230	(Brown)			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.	-	
							\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•			(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	20.00	
											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.	- - - -	
											discontinuity with occasional black specks 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.	- - - -	
												-	

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress	General	Domorl	l/O	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
3			·	•		·							
, Dia 12													
2 2 2										All dimensions in metres	Scale:	1:25	
	Method Jsed:	Cable Pe	tion pit +	Plan Used		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 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 - 10:30 | TC9 |

Rotary Cored

BOREHOLE LOG

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

			Sample	s & Testing	N	Mecha	nical	Log	s iii	∞ ' 'e	h		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfii Instru mentat	Water	Description of Strata	(Thick ness)	Graphic Legend
- 10.31 123	0.10 - 0.10 - 0.10-0.30	1 101 2	D ES B	1xT+1xJ+1xV				()				TOPSOIL		
=maii: ask@soiis.co.uk. 11/12/22	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		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 fine to coarse of mudstone. Cobbles are	1.20	
J 1977-552299, Web. WWW.SOIIS.CO.UK, EIIIaii.	2.00 2.00-2.45	8 104 9	D ES UT _(UT100)	1xT+1xJ+1xV 53 blows 100% recovery								subangular to well rounded (<100mm). 1.20-1.60m: With frequently thin laminae (<3mm) of extremely weak light 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)	1.60	
t forkstille, Wr to thus. Tel. 01977-5522555, Fax. 0197	2.70 - - - - - - - - - - - - - - - - - - -	105 12 13	D SPT ES DSPT B	N=36 1xT+1xJ+1xV							*	Very stiff reddish brown slightly gravelly 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)	2.70	
roueries, rouery sueer, casuelous, west	3.70 - - - - - - - - - - - - - - - - - - -	14 16 17	D SPT DSPT B	4,8/10,18,22 for 75mm								(MERCIA MUDSTONE GROUP)	(2.30)	

ď,											
The		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress	General I	Domorko
astleford	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
ပ	09/09/22	14:01	1.20	None	200	Dry	4.70	5.00	00:30	2. Hand dug inspection pit t	
Office	12/09/22		1.20	None	200	-				3. Borehole drilled using 20	
Ö	12/09/22	13:42	5.31	3.00	200	Dry				4. Borehole installed with 5	0mm standpipe upon
Branch	22/09/22	22 08:30 5.00 5.00 200			4.90				completion. Response zo		
_	22/09/22	16:30	30.30	5.00	146	20.90				5. SPT hammer AR3104-2	$022 (E_r = 64.00\%)$ used.
, Ltd	23/09/22	08:15	30.30	5.00	146	10.90					
Soils	23/09/22	/09/22 16:30 30.30 None 146			-				A II -liii	Carles 4 05	
										All dimensions in metres	Scale: 1:25
tructural	Method Used:								ny Hutt + m Carter	Logged DNeylon + By: JAlton	Checked By: AGS

BOREHOLE LOG

Contract:		Client:		Boreho	le:		
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	2	of	16
0 1 0 7						\neg	

ĺ			Sample	s & Testing	N	Лесhа	anical	Log		2 ∞ . 5		1	Depth	Material
	Depth (m)	No	Туре	Results			RQD (%)	If (mm)	Flush Returns	Backfill & Instru-	Water	Description of Strata	(Thick ness)	
1631	4.70	18	D										5.00	
WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. 11/12/22 - 10:31 TC9	5.00-6.30 (0:05) - 5.00-5.31 - 5.00-5.31	20	SPT	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 5.30-5.38m: weak greenish grey thickly laminated fine grained sandstone.	-	
soils.co.uk, Email:	- 6.00 -	29	D		•	-			V			6.20-6.25m and 6.35-6.40m: extremely	(1.90)	
2299, Web: www.	6.30-7.80 (0:03)											weak thickly laminated mudstone below 6.40m: frequent fine to coarse gravel size pockets of greenish grey sandy silt.	_	
255, Fax: 01977-552	- - - 7.05-7.23	30	С		93	60	56		Air+Mist (Brown)			6.70-6.80m: Weak greenish thickly laminated grey sandstone Extremely weak greenish grey SILTSTONE. Fractures: Very closely spaced, incipient, smooth, planar, with black specks on surfaces.	6.90	· · · · · ·
0 1NJ. Tel: 01977-552	· · ·											Extremely weak reddish brown MUDSTONE. GRADE II. Fractures: Closely spaced, randomly orientated, smooth, planar, tight, with black staining on surfaces. (MERCIA MUDSTONE GROUP)		
t Yorkshire,	7.80-9.30 (0:05)				*	*	X		*				(2.60)	
Potteries, Pottery Street, Castleford, Wes	· · ·				100	48	27		Air+Mist (Brown)				-	
tteries, Pottery \$	8.80	31	D									8.70-9.10m: fine to medium gravel size pockets and lenses (<10mm) of greenish grey siltstone.	-	

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



Contract:				С	Client:		Boreho	ole:		
	EMG Pha	se 2				SEGRO			ВІ	H04
Contract Ref	:	Start:	09.09.22	Ground	Level (m AOD):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	26.09.22		76.87	E:446012.8 N:324872.6		3	of	16
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			Liid.		J. Z Z								
Danth		Sample	s & Testing		Mecha	anical	Log	ails	≡ & d- ation	Je.		Depth	Materi
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Retun & Det	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graph Leger
9.30-10.80 (0:06)				100	48	27		¥			Extremely weak reddish brown MUDSTONE. GRADE II. Fractures: Closely spaced, randomly orientated, smooth, planar, tight, with black staining on surfaces. (MERCIA MUDSTONE GROUP) (stratum copied from 6.90m from previous sheet)9.10-9.15m: gravelly clay.	9.50	
10.15-10.20	32	С		100	60	33		Air+Mist (Brown)			Extremely weak reddish brown MUDSTONE, recovered as clayey sandy angular to subangular fine to coarse gravel. GRADE III. (MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE with fine gravel size pockets	- - 9.95 - -	
10.80-12.30				X	*	X		X			and lenses (<20mm) of greenish grey siltstone with black specks. GRADE II. Bedding fractures: Closely spaced, smooth, undulating, with frequent black staining along surfaces Fracture set 2: Very closely spaced, randomly orientated, smooth, undulating,	[(1.45)	
(0:06)											with black staining on fracture surfaces. (MERCIA MUDSTONE GROUP) below 10.80m: no randomly orientated fractures 11.15-11.20m: extremely weak	- - -	
11.40-11.70	33	С		97	62	51		Air+Mist (Brown)			greenish grey siltstone 11.20-11.40m: very sandy clayey gravel. Gravel is angular to subangular mudstone. Extremely weak reddish brown MUDSTONE with fine to medium gravel	11.40	
					,						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).	- - - -	
12.30-13.80 (0:04))			 	*	X		Ĭ			Fracture set 2: Closely spaced, randomly orientated, undulating, smooth, with occasional black staining along surfaces. (MERCIA MUDSTONE GROUP)	- - -	
12.90-13.00	34	С		97	78	45		Air+Mist (Brown)				 - - -	
												-	

		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	
			Борит	Ворин	(11111)	Ворин							
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										All dimensions in metres	Scale:	1:25	
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GINT LIBRARY V10_01.GLB LibVersion: v8_07_001 PriVersion: v8_07 | Log COMPOSITE LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
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BOREHOLE LOG

Contract:								Cli	ent:						Boreho	le:	
		EMC	3 Phas	se 2								SEGRO)				BH04
Contract Re	00.00.22						Grou	und Le	evel (ı	n AOD):		National Grid	Co-ordinat	e:	Sheet:		
	765514 End: 26.09.22							7	76.8	7		E:44601	2.8 N:3	24872.6		4	of 16
Б 11	Samples & Testing Mechanic					anical	Log	St	ill &	ē					Depth	Material	
Depth (m)	Pepth TCR SCR RO						Flush		Water		Description	n of Strata		(Thick ness)	Graphic Legend		
										H::::		Extremely	weak	reddish	brown		

5 "		Samples	s & Testing	N	/lecha	anical	Log	S	ails u- u- tion	ē		Depth	Materia
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush	& Details Backfill & Instru-	Water	Description of Strata	(Thick ness)	Graphic Legend
- - - - - - - - - - - - - - - - - - -		С		97	78	45 Y 63		Air+Mist			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) - -				*	*	*		*			15.40-15.60m: extremely weak grey siltstone.		
16.60-16.80		С		93	53	29		Air+Mist	(IIMOIO)		below 16.30m: with closely spaced thin and thick laminae of siltstone.	-	
- (0:05) - (0:05) 				100	21	0 0		Air+Mist			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 Pr	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domor	ko	
Dat	e Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS .	
}					-							
ī												
									All dimensions in metres	Scale:	1:25	
Metho Used:	Cable P	ction pit + ercussion -	Plan Used		ando 3000 cchio GEC			ny Hutt + m Carter	Logged DNeylon + By: JAlton	Checked By:	1.20	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:			Bore	ehole:			
EMG Phas	se 2					SEGRO				Bŀ	104
Contract Ref:	Start:	09.09.22	Groun	d Level (m	AOD):	National Grid Co-ordinate:	She	et:			
765514	End: 2	26.09.22		76.87	,	E:446012.8 N:324872	2.6		5	of	16

Ī			Sample	s & Testing	N	Иесhа	anical	Log	S :	tio F	ē		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD	lf (mm)	Flush Returns & Details	Backfill & Instru-	Water	Description of Strata	(Thick ness)	Graphic Legend
	18.20	37	D		100	21	0	(11111)	L L &			below 17.85m: increased proportion of fractures.	18.30	
22 - 10:31 109	18.30-19.80 (0:05)				-	- 			Å			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)	
: ask@solls.co.uk. 11/12/	- - 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 -	
lei: 01977-552255, Fax: 01977-552289, Web: www.soiis.co.uk, Emaii: ask@soiis.co.uk. 11/12/22	. 19.80-21.30 . (0:05)				*	*	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)	
01977-552255, Fax: 01977-55	20.80-20.90	39	С		100	67	55		Air+Mist (Brown)			Weak to medium strong greenish grey fine grained SANDSTONE with frequent black specks. (MERCIA MUDSTONE GROUP)	- 20.65 (0.30)	
orksnire, WF10 1NJ. Tel:	21.30-22.80 (0:06)				- X -	- X -	X		X			Extremely weak reddish brown MUDSTONE closely interbedded with extremely weak greenish grey SILTSTONE. Bedding fractures: Closely spaced, rough, undulating. (MERCIA MUDSTONE GROUP)	21.50	
Pouery street, Castleford, West 10					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)	
Foureries, Fourery	22.20-22.45	40	С									Description on next sheet	(0.40)	

	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	NS	
				, ,								
									All dimensions in metres	Scale:	1:25	
Method Used:	Cable Po	tion pit +	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 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



Contract:								Clie	nt:				Boreho	ole:	
		EMG	Phas									SEGRO			BH04
Contract Ref	:		5	Start: (09.09	9.22	Grour	nd Lev	/el (r	n AOD):		National Grid Co-ordinate:	Sheet:		
7	'65 !	514	E	End: 2	26.09	9.22		7	6.8	7		E:446012.8 N:324872.6		6	of 16
		Samples	& Testin	ng	N	/lecha	anical L	.og	σ :	<u>∞</u> ~ ie	<u>_</u>			Depth	Mater
Depth (m)	No	Туре	Resu	ılts	TCR (%)	SCR (%)	RQD (%) (If mm) [Return	& Details Backfill & Instru- mentation	Water	Description of Strata		(Thick ness)	Grapl Lege
22.80-24.30 (0:05)					100	75	51		*			Extremely weak reddish MUDSTONE randomly transitioning greenish grey SILTSTONE. GRADIF Fractures: Closely spaced, reorientated, rough, undulating, with f black staining along surfaces and f black specks on siltstone. (MERCIA MUDSTONE GROUP) (stratum copied from 22.20m from p sheet) Very stiff reddish brown sandy	II. Indomly requent requent revious slightly	22.60	
24.00-24.10	41	С			100	40	23		Air+Mist (Brown)			gravelly CLAY. Sand is fine, moderived. Gravel is angular to subfine to medium mudstone lith GRADE IVa. (MERCIA MUDSTONE GROUP) 23.05-23.15m: band of thickl laminated greenish grey sandstone below 23.15m: randomly interwith stiff greenish grey sandy silt. Extremely weak reddish brown MUS Bedding fractures: Closely spaced	angular norelics. y cross spersed	23.60	-0
24.30-25.80 (0:06)					X	*	*		X			undulating. (MERCIA MUDSTONE GROUP) below 24.25m: becoming interbedded/interspersed with green siltstone. Extremely weak greenish SILTSTONE. With incipient fire	slightly sh grey	(0.45)	× × × × × × × × × × × × × × × × × × ×
25.25-25.60	42	С			100	100	97		Air+Mist (Brown)			observed on breaking up the core staining along surfaces. (MERCIA MUDSTONE GROUP) Extremely weak reddish MUDSTONE. GRADE II. (MERCIA MUDSTONE GROUP) 24.80-25.30m: frequent fine size pockets of extremely weak grey siltstone.	brown	-	

5	-										- (4.3	30)	
-		Boring Pro	ogress and	Water Ob	servations		Chiselli	ing / Slow F	rogress	General	Domark		
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Nemaik:	>	
3			·										
)													
į													
5										All dimensions in metres	Scale: 1	:25	
5	Method	Inspec	ction pit +	Plan	it Da	ando 3000	+	Drilled Jon	ny Hutt +	Logged DNeylon +	Checked	Ę	I

Air+Mist (Brown)

100 60 49

. below 25.90m: Bedding fractures:

Widely to medium spaced, smooth, planar, with black staining along fracture surfaces.

. . . 26.50-26.85m: fractures: very closely

undulating, and closely interbedded with extremely weak greenish grey siltstone.

orientated,

JAlton

rough,

Ву:

randomly

spaced,

Sam Carter

By:

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 - 10:31 | TC9 |

. 25.80-27.30 (0:06) -25.90-26.25

26.60-28.30

Used:

С

С

Cable Percussion +

Rotary Cored

Used:

Comacchio GEO 601

43



Contract:						Client:			_	Borehole:	
0 () 0		EMG	Phase 2				4.00)	SEGR			BH0
Contract Ref		-44		09.09.22		nd Level (m	AOD):		d Co-ordinate:	Sheet:	7 . 4
/	765			26.09.22		76.87	اء جا	E:4460)12.8 N:324872.6		7 of 1
Depth (m)	No	Type	& Testing Results	TCR SCF	anical L RQD (%) (og If Neturns Petails	Backfill & Instrumentation	V 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Description of Strata	(Ti	epth Mate hick Grap ess) Lege
27.30-28.80 (0:05)				100 60	49	Air+Mist (Brown)		(MERCIA 	DNE. GRADE II. MUDSTONE GROUP) .80-25.30m: frequent fine kets of extremely weak grone. (stratum copied from 2 ious sheet) 0-27.30m: extremely weak trong grey siltstone. 7.30-27.40m: recovered a yey fine to medium gravel. lar to subangular much	reenish 24.80m co weak co we were well as well	
28.80-30.30 (0:06) - - - - - 29.55-29.75		С		97 77	70	Air+Mist (Brown)		Extremely SILTSTO (MERCIA 29.2 sandston vugs 29.3 medium of the control	ME. MUDSTONE GROUP) 0-29.25m: thickly cross landle with fine to medium sare as 185-29.38m: sandstone with gravel size vugs. Weak reddish DNE. MUDSTONE GROUP) Denish grey fine to medium of the content of the conten	grey (0. ninated and size 29 fine to brown 30 grained ine to 30	1.10 .40) ××× ××× 2.50 ×× 50)
Bo	ring F	Progress	and Water O			Chise	lling / Slo	extremely	pelow 30.20m: verging to weak siltstone. terminated at 30.30m depth	- - - - - - - - - - -	
	Time	Boreh Dep	ole Casing	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General I	∺emark	S
				<u> </u>			\perp		All dimensions in metres	Scale:	1:25
Method	Insp	ection p	it + Plan	nt D a	ndo 300	00 +	Drilled ,	Jonny Hutt +	Logged DNeylon +	Checked By:	A

28.80 - 30.30 (0:06)						X				-	
							拙	***		29.10	
-									Extremely weak greenish grey SILTSTONE. (MERCIA MUDSTONE GROUP)	(0.40)	× × × × × × × × × × × × × × × × × × ×
-						ist _	掛 :	•••	29.20-29.25m: thickly cross laminated sandstone with fine to medium sand size	29.50	× × × × × × × × × × × × × × ×
- - 29.55 - 29.75 -	45	С	97	77	70	Air+M (Brow		***	vugs 29.35-29.38m: sandstone with fine to medium gravel size vugs.	- (0.50)	
-								* ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	Extremely weak reddish brown MUDSTONE.	- (0.50) - -	
_							₩	•••	(MERCIA MUDSTONE GROUP)	30.00	

<u>'</u> [Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress	Conoral	Domorl	40	
astreloid.	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
3													
ָב ב													
										All dimensions in metres	Scale:	1:25	
) I	Method Used:	Cable Pe	tion pit +	Plan Use		ndo 3000 cchio GEC			ny Hutt + m Carter	Logged DNeylon + By: JAlton	Checked By:		AGS



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	N	Mecha	anical	Log	≪ <u>.</u>	E 5		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfi Instru	mentatio Water	Description of Strata	(Thick ness)	Graphic Legend
	0.10-0.10 0.10-0.10 0.10-0.30	1 101 2	D ES B	1xT+1xJ+1xV							TOPSOIL Soft to firm orangish brown sandy gravelly CLAY	0.30	<u>√6</u> √6 √ <u>√6</u> √6 √ <u>√6</u> √6 √
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).	- - -	000
oils.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 9	SPT DSPT B	N=17								(2.50)	000
www.soils.co.ul	1.70-1.70	10	D									- - -	000 0.0
7-552299, Web:	2.00-2.45 - -	11	UT _(UT100)	80 blows 78% recovery								- - -	000 000 00
255, Fax: 0197	- - 2.45-2.55 -	12	D									-	00:0
977-5522	2.70-2.70	13	D								NO RECOVERY - driller notes, obstruction,	2.80	. 0.0
1J. Tel: 01	3.00-3.30		SPT	3,4/20,30 for 75mm							possibly sandstone or mudstone boulder.	_	
hire, WF10 1N	- 3.00-3.30 - 3.00-3.30	15 16	DSPT B	101 / 3111111								-	
eford, West Yorks	- - -											(1.70)	
Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552555, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:31	- _ 4.00-4.26 -		SPT(c)	11,14/26,24 for 45mm								-	
Potteries, Po	-											4.50	

ı											
ne L		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	Caparal	Domorko
astletord:	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	_	Remarks
ػ	08/09/22	17:11	9.50	9.00	200	Dry	3.20	3.70	01:00	1. Position cleared using C. 2. Hand dug inspection pit	
⊪s Ltd, Brancn Uπice		08:00	25.00	None	200	9.00	9.00	9.50	01:00	Borehole drilled using 20 then down to 150mm fro Borehole installed with a completion. SPT hammer AR3104-2	00mm casing and tools, om 11.50m. a 50mm standpipe upon
00 E										All dimensions in metres	Scale: 1:25
tructur	Method Used:							Drilled Jon By:	ny Hutt + Luke	Logged JAlton + By: RSenior	Checked By: AGS



BOREHOLE LOG

Cor	ntract:				Client:		Borehol	e:		
	EMG Pha	se 2				SEGRO			В	H05
Cor	ntract 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		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

		Boring Pro	ogress and	Water	Observa	tions		Chisel	ing / Slow F	rogress	Conoral	Domor	ko	
	Date	Time	Borehole	Casin	ום ן blam	neter	Water	From	То	Duration (hh:mm)	General	Remai	KS	
į			Depth	Depth	ı (mı	m)	Depth			,				
i														
1														
5											All dimensions in metres	Scale:	1:25	
3	Method						ando 3000		Drilled Jon		Logged JAlton +	Checked		
:	Used:) 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 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. | 11/12/22 - 10:32 | TC9 |

STRUCTURAL SOILS

BOREHOLE LOG

Contract:				Client:				Boreho	le:		
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		3	of	12
		_			_						

	000	<i>,</i> , , ,	Liiu.	17.0	U			0.0 .		E. 1100 10.0 11.0E 1000.0		<u> </u>
		Samples	s & Testing		Mecha	anical	Log	u- 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
9.00-9.30		SPT	13,12/21,29							Probable boulder. (stratum copied from 8.70m from previous sheet)	_	_•
9.00-9.00 9.00-9.30 9.00-9.50 9.20-10.00	106 31 32	ES DSPT B	for 70mm 1xT+1xJ+1xV			1				(stratum copied from 8.70m from previous sneet)	(1.00)	
9.50-9.73		SPT(c)	13,12/32,18 for 40mm	62	0	0					9.70	
- 9.50 - 9.73 - 9.70	33 34	C D								Drilling disturbed, very limited recovery. Recovered as probably very dense, grey, reddish brown and	9.70	0,000
10.00-11.50		ODT	5.7/40.40.00	 	X	X				yellowish brown angular to subrounded medium to coarse GRAVEL of mudstone, limestone and sandstone. High cobble content of subangular to	-	
10.00-10.34		SPT	5,7/12,18,20 for 40mm							subrounded mudstone, limestone and sandstone.	-	
											(1.50)	
-				20	0	0					-	
											-	0000
11.00	25	_								Duilling diet wheel year limited appropria	11.20	000
11.20	35	D		 		X				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.	- -	
										to coarse of mudstorie and imestorie.	(1.10)	
-				20	0	0					- -	
-											-	<u> </u>
12.30	36	D								Drilling disturbed, very limited recovery. Recovered	12.30	0.000
[L	L.					as grey, yellowish brown and reddish brown	<u> </u>	0000
12.50-13.00										subangular to subrounded coarse GRAVEL of mudstone, limestone and sandstone. High cobble content. Cobbles are mudstone and sandstone.	(0.70)	
12.80-13.00	37	В		40	0	0				12.80-13.00m: 1 no. cobble of very strong dark grey limestone.	13.00	
13.00-13.45 13.00	38	SPT D	N=35							Open hole drilling. SAND AND GRAVEL (Driller's Description)	-	
_											-	

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress		Seneral I	Domor	lko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)			Remai	KS	
i Î													
									All dimension	ons in metres	Scale:	1:25	
Method Used:		tion pit +	Plan Use		ando 3000 cchio GEO		Drilled Jon By:	ny Hutt + Luke	Logged By:	JAIton + RSenior	Checked By:		AGS



BOREHOLE LOG

EMG Phase 2 SEGRO BH0 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 4 of 12	Contract:		Client:		Borehole	: :		
	EMG Phas	se 2		SEGRO			В	H05
765514 End: 14.09.22 76.91 E:446018.3 N:324889.5 4 of 12	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		4	of	12

7	65	514	End:	14.09	9.22		7	6.91		E:446018.3 N:324889.5	4	of 12
		Samples	s & Testing	1	Mecha	anical	Log	∞, 5			Depth	Material
Depth (m)	No	Туре	Results		SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	water	Description of Strata	(Thick ness)	Graphic Legend
13.50-13.79 - - -		SPT	7,12/18,32 for 60mm							Open hole drilling. SAND AND GRAVEL (Driller's Description) (stratum copied from 13.00m from previous sheet)	(1.70)	
_ 14.00-14.09 - 14.00 - - -	39	SPT D	25/50 for 40mm								-	
-										Open hole drilling. MUDSTONE (Driller's Description) (MERCIA MUDSTONE GROUP)	(0.30)	
15.00-16.00 15.00-15.12 		SPT	25/50 for 50mm							Extremely weak thickly laminated to very thinly bedded reddish brown MUDSTONE. GRADE II Bedding fractures: Closely spaced, 0° to 5°,	-	
- 15.00 -	40	D	ioi somm				A			undulating, smooth, clean. (MERCIA MUDSTONE GROUP) 15.00-15.40m: AZCL.	(0.70)	
15.50	41	D		60	16	10	NI NI NI				15.70	
15.78-15.90 - 16.00-17.50		С			X	X				Extremely weak thinly bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Closely spaced, 0° to 5°, undulating, smooth, clean. (MERCIA MUDSTONE GROUP)16.10-16.45m: AZCL.	-	
- - - -							NI			16.45-16.73m: NI, recovered as clayey gravel.	-	
_ 16.73-16.87 - -	43	С		63	63	13	600 200			17.02-17.05m: Moderately weak light grey	-	
- - 17.24 -	44	D								siltstone 17.10m: Thin lamination (<3mm) of weak grey siltstone 17.17-17.19m: Weak grey siltstone.	(3.40)	
17.50-19.00						 					<u>-</u>	
17.70-17.84 -	45	С		93	93	24	X				- -	

		Boring Pro	ogress and	Water Ob	servations		Chisell	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	
N	1ethod	Inspec	tion pit +	Plan	t D a	ando 3000	+	Drilled Jon	ny Hutt +	Logged JAlton +	Checked		
U	Jsed:		ercussion -	• Used	d: Coma	cchio GEC		By:	Luke	By: RSenior	By:		AGS
_		Rotai	v Cored					R	amford	1			



STRUCTURAL SOILS **BOREHOLE LOG**

Contract:					Client:		Во	orehole:		
	EMG Pha	se 2				SEGRO			E	3H05
Contract Ref		Start:	09.09.22	Groun	d Level (m AOD):	National Grid Co-ord	nate: Sh	heet:		
7	'65514	End:	14.09.22		76.91	E:446018.3 N	N:324889.5	5	0	f 12
Depth	Samples & Tes	ting	Mecha	anical Lo	stru- tation	Description	of Strata	Dept (Thic	· · I	Material Graphic

5 (1		Samples	& Testing	Me	echan	ical I	Log ≝ , <u>ē</u>	er		Depth	Material
Depth (m)	No	Туре	Results	TCR S	CR R (%) (QD %)	Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
18.50	46	D				24	NI NI 150		17.93-17.98m: 30°, undulating, smooth, clean discontinuity. Extremely weak thinly bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Closely spaced, 0° to 5°, undulating, smooth, clean. (MERCIA MUDSTONE GROUP) (stratum copied from 15.70m from previous sheet) 18.00-18.01m: Very weak light grey siltstone 18.00-18.14m: 80°, undulating rough clean	-	
- _ 19.00-20.50)			X	*	X	¥		discontinuity 18.03-18.04m: Very weak light grey siltstone 18.27-18.32m: Strong light grey siltstone 18.39-18.40m: Strong light grey siltstone 18.55-18.57m: Moderately weak light grey	19.10	
19.30	47	D					NI 60 250		siltstone 18.60-19.10m: Extremely weak to very weak 19.00-19.10m: NI, recovered as subangular fine to medium gravel. Very weak, locally extremely weak, thinly to medium bedded reddish brown MUDSTONE. GRADE II.	(1.10)	
	0 48	С		95	95 2	23	*		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 19.21-19.25m: 25° undulating smooth discontinuity with occasional black specks on discontinuity with occasional black specks on	20.20	
		С		*	*	*			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.		
21.50	50	D		95	95	68	NI 120 300		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 19.68-19.70m: 25° undulating smooth clean discontinuity 19.84-20.16m: 85° to 90° undulating smooth clean discontinuity intersected by 80° undulating smooth clean discontinuity.	(2.78)	
- - 22.00-23.50 - - - 22.40	51	D		100 1	100	65			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) 20.85-20.88m: 30° undulating smooth clean discontinuity 20.91-20.93m: 10° planar rough discontinuity with 1mm thick calcite vein.	-	

		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	
<u> </u>			Depth	Depth	(mm)	Depth			,				
ĺ													
1													
3										All dimensions in metres	Scale:	1:25	
) I	Method							Drilled Jon		Logged JAlton +	Checked		ags
) I	Used:							Bv:	ny Hutt + Luke	Bv: RSenior	Bv:		

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: 01977-552399, Wet



BOREHOLE LOG

Contract:		Client:		Borehole:		
EMG Pha	ase 2		SEGRO		E	3H05
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		6 o	of 12

Depth (m) No Type Results TCR (%) (%) (%) (%) (mm) Description of Strata		UU	014	End:	14.09	3. ZZ			76.91			440(J18.3 N:324889.5	6	of 12
23.00-23.23 52 C 100 100 100 65 100 100 65 21.137.10° planer rough discontinuity with irrmit hick calcite verm. 10° planer rough discontinuity with 10° planer rough discontinuity with 10° planer rough discontinuity with 10° planer rough discontinuity. 21.136.21.19° m. Weak grey sillstone. 21.24.21.19° m. Weak grey sillstone. 22.27.22.39° m. Weak grey sillstone. 22.27.22.39° m. Weak grey sillstone. 22.27.22.23° m. Weak grey sillstone. 22.29° m.			Samples	s & Testing	1	Mech	anical	Log	∞ _ 5	_				Depth	Mater
23.00-23.23 52 C 100 100 100 65 23.00-23.23 52 C 100 100 100 65 24.00-24.18 54 C 25.00-25.00 25.		No	Type	Reculte	TCR	SCR	RQD	. If	ackfill Instru entati	Wate		De	escription of Strata	(Thick	Grap
with from thick calcitate vein. 23.00-23.23 52 C		INO	туре	rtesuits	(%)	(%)	(%)	(mr	n) 🛎 – Ė			05 04 0	7 400		Lege
23.00-23.23 52 C 100 100 65 100 100 65 100 100 65 23.00-23.23 52 C 100 100 65 100 100 65 100 100 65 100 100 65 100 100 65 100 100 65 100 100 65 100 100 65 100 100 65 100 100 65 100 100 65 100 100 65 100 100 65 100 100 65 100 100 65 100 100 65 100 100 65 100 100 65 100 100 100 65 100 100 100 65 100 100 100 65 100 100 100 65 100 100 100 65 100 100 100 65 100 100 100 100 100 100 100 100 100 10														-	
with from thick calcite vein. 2.14.24.19m: Week grey siltstone. 2.19.24.19m: Week grey siltstone. 2.19.24.19m: Week grey siltstone. 2.19.24.19m: Week grey siltstone. 2.19.24.19m: Week grey siltstone. 2.19.25.19m: Week grey siltstone. 2.19.22.19m: Week grey siltstone. 2.19.22.29m: Week grey siltstone. 2.19.22.29m: Week grey siltstone. 2.29.22.25m: Week grey siltstone. 2.20.22.25m: Week grey siltstone. 2.20.22.25m: Week grey siltstone. 2.21.22.23.19m: Week grey siltstone. 2.21.22.23.19m: Week grey siltstone. 2.22.25m: Week grey siltstone. 2.23.50.25m: Meek grey siltstone. 2.24.00.24m: Meek grey siltstone. 2.24.00.24m: Meek grey siltstone. 2.24.00.24m: Meek grey siltstone. 2.24.00.24m: Meek grey siltstone. 2.25.50.25m: Meek grey siltstone. 2.26.00.25m: Meek grey siltstone. 2.27.22.23.4m: Meek grey siltstone. 2.28.50.25m: Meek grey siltstone. 2.29.25m: Meek grey siltstone. 2.29.25m: Meek grey siltstone. 2.29.25m: Meek grey siltstone. 2.29.25m: Meek grey siltstone. 2.20.25m: Meek grey siltstone														-	
23.90-23.23 52 C														-	
23.90 23.90 53 D 23.90 53 D 24.00-24.18 54 C S S S S S S S S S S S S S S S S S S											21.	18-21.19	m: Weak grey siltstone.	22.00	
discontinuity,					100	100	65				1 21	24-21.40 1	m: vveak grey slitstone. 58m: 88° undulating rough clean	22.98	× × ×
Coally stepped desen discontinuity Coally st	23.00-23.23	52	C		100	100	"						John. 60 undulating rough olean	-	× × ×
College Coll														(0.57)	$\times \times \times$
23.50-25.00 No.														[[(0.57)	× × ×
23.50-25.00 23.90 53 D 24.00-24.18 54 C 93 93 37 93 93 37 93 93 37 Particular in the control of the control											Very w	27-22.39 eak to	m: vveak grey slitstone. weak thinly to medium hedded	-	× × ×
Bedding factures: Closely to medium spaced, 0° to 5° to 10° to 10					<u> </u>	.	<u> </u>							11	× × ×
Boring Progress and Water Observations Boring Progress and Water Observations Boring Progress and Water Observations Chiselling / Slow Progress Date Time Borehole Casing Depth D	23.50-25.00				1	1	↑				Bedding	fracture	es: Closely to medium spaced, 0°	20.00	$\times \times \times$
23.90 53 D 24.00-24.18 54 C 93 93 37 93 93 37 93 93 37 94 Very weak to weak thinly bedded light grey sundialing rough, elean discontinuity. Very weak to weak thinly bedded light grey sundialing rough, elean discontinuity. Very weak to weak thinly bedded light grey sundialing rough, elean discontinuity. Very weak to weak thinly bedded light grey sundialing rough, elean discontinuity. Very weak to weak thinly bedded light grey sundialing rough, elean (MERCIA MUDSTONE GROUP) (MERCIA MUDSTONE GROUP) 25 00 25 3 dealing from the sundialing rough, elean (MERCIA MUDSTONE GROUP) 25 00 25 3 dealing from the sundialing rough, elean (MERCIA MUDSTONE GROUP) 26 00 26 dealing from the sundialing rough, elean (MERCIA MUDSTONE GROUP) 27 00 27 dealing from the sundialing rough, elean (MERCIA MUDSTONE GROUP) 28 00 28 dealing from the sundialing rough, elean (MERCIA MUDSTONE GROUP) 28 00 28 dealing from the sundialing rough, elean (MERCIA MUDSTONE GROUP) 28 00 29 silistone. 29 00 20 20 20 20 20 20 20 20 20 20 20 20								NI NI						-	×××
Moderately weak thinly bedded light grey 24.00-24.18 54 C C S S S S S S S S								120)					(0.48)	$\times \times \times$
Salt TSTONE_GRADE II. Salt TSTONE GRADE II. Salt								300)		L			ווי	× × ×
Bedding fractures: Closely spaced, 0° to 5°. WERCIA MUDSTONE GROUP											SILTST	ONE. GI	RADE II.		× × ×
Boring Progress and Water Observations Boring Progress and Water Observations Borehole Casing Borehole Depth Time Borehole Depth Depth Casing Depth Depth Depth Time Borehole Depth Dept	24.00-24.18	54	С												×××
Boring Progress and Water Observations Boring Progress and Water Observations Time Borehole Casing Depth Depth Chepth Depth Depth Depth Chepth Depth Depth Chepth Chepth Depth Chepth														L	× × ×
Boring Progress and Water Observations Boring Progress and Water Observations Date Time Borehole Casing Depth Depth Time Borehole Casing Depth				93	93	37				(MERC	14 MUDS	STOINE GROUP) 15m: 40° undulating rough clean			
Very weak to weak thinly bedded light grey Sit TSTONE GRADE II. Bedding fractures: Closely spaced, 0° to 5°, undulating, rough, clean. (MERCIA MUDSTONE GROUP) 23.72-23.84m: Moderately weak grey siltstone. Strong thinly bedded light grey Sit TSTONE. GRADE II. Bedding fractures: Closely spaced, 0° to 5°, undulating, rough, clean. (MERCIA MUDSTONE GROUP)						l ,	1 1						TOTAL TO GRADUATING TOUGHT CHEAT	[
Boring Progress and Water Observations Boring Progress and Water Observations Boring Progress and Water Observations Time Borehole Casing Depth Depth Depth Depth Depth Depth To Depth													weak thinly bedded light grev	(0.97)	
Boring Progress and Water Observations Date Time Borehole Depth D											SILTST	ONE. GI	RADE II.		x x x
Boring Progress and Water Observations Chiselling / Slow Progress															× × ×
Boring Progress and Water Observations Boring Progress and Water Observations Chiselling / Slow Progress Chiselling / Slow Progress															x x x
Boring Progress and Water Observations Boring Progress and Water Observations Date Time Borehole Casing Depth Depth Depth Casing Depth Depth Depth Depth Depth Depth Casing Depth Servations I Bedding fractures: Closely spaced, 0° to 5°, undulating, rough, clean, (MERCIA MUDSTONE GROUP) 24.38-24.41m: Extremely weak reddish brown mudstone 24.72-24.78m: 60° undulating rough clean discontinuity															× × ×
Boring Progress and Water Observations Date Time Borehole Casing Depth						V								25.00	ê ê ê
Bedding fractures: Closely spaced, 0° to 5°, undulating, rough, clean. (MERCIA MUDSTONE GROUP) 24,38-24,41m: Extremely weak reddish brown mudstone 24,72-24,78m: 60° undulating rough clean discontinuity 24.85-25.00m: Extremely weak reddish brown mudstone. Borehole terminated at 25.00m. Borehole terminated at 25.00m.													oedded light grey SILTSTONE.		
Boring Progress and Water Observations Date Time Borehole Casing Depth Depth Depth Depth Depth Time Depth D													es: Closely spaced 0° to 5°	IL	
Boring Progress and Water Observations Chiselling / Slow Progress															
Boring Progress and Water Observations Boring Progress and Water Observations Time Borehole Casing Depth D											(MERC	IA MUDS	STONE GROUP)		
Boring Progress and Water Observations Date Time Borehole Casing Depth Depth Depth Depth Depth Time Depth Depth Depth Depth Depth Time Depth De													m: Extremely weak reddish brown		
Boring Progress and Water Observations Date Time Borehole Casing Depth Depth Depth Depth Depth Time Depth Time Depth Depth Depth Time Depth Dep													78m: 60° undulating rough clean		
Boring Progress and Water Observations Date Time Borehole Casing Depth													Tomic do anadamig reagn elean		
Boring Progress and Water Observations Date Time Borehole Depth D													m: Extremely weak reddish brown		
Boring Progress and Water Observations Date Time Borehole Depth D													1 1 105 00] [
Date Time Borehole Casing Depth Dept											Borenoi	e termina	ated at 25.00m.	_	
Date Time Borehole Casing Depth Dept														1	
Date Time Borehole Casing Depth Dept														1	
Date Time Borehole Casing Depth Dept														1	
Date Time Borehole Casing Depth Dept														1	
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Date Time Borehole Casing Depth Dept														1	
Date Time Borehole Casing Depth Dept														-	
Date Time Borehole Casing Depth Dept														-	
Date Time Borehole Casing Depth Dept														-	
Date Time Borehole Casing Depth Dept								<u> </u>			1				
Date Time Depth Depth Depth Depth Depth To Duration (hh:mm)	Bor	ing F	rogress	and Water Ob					Chise	elling	g / Slow Pr	ogress	Canaral Dam	arks	
Depth Depth (mm) Depth	Date T	ime		_	Diame	eter		- 11	From				General IVen	iai N3	
All dimensions in metres Scale: 1:25			Dep	Dun Depth	(mn	n)	⊔ept	n		+					
All dimensions in metres Scale: 1:25															
All dimensions in metres Scale: 1:25															
All dimensions in metres Scale: 1:25															
All dimensions in metres Scale: 1:25															
	Mothed	I.e		Die	<u> </u>					\perp	rillod '				
Method Inspection pit + Plant Dando 3000 + Drilled Jonny Hutt + Logged JAlton + Checked Jsed: Cable Percussion + Used: Comacchio GEO 205 By: Luke By: RSenior By:										B	ımed Jonn y: I			n c u	A(

2		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress	General	Domor	ko	
Suciola	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS ———	
Diditon Omos - oa			·	·									
al colls Ltd,										All dimensions in metres	L	1:25	
ווחרותו	Method Used:		tion pit + ercussion -	Plar • Use		ando 3000 acchio GEC		Drilled Jon By:	ny Hutt + Luke	Logged JAlton + By: RSenior	Checked By:		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	l	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.
	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	В											-	
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>

п.													
The		Boring Pro	ogress and	Water Ob	servations		Chise	lling / Slow F	Progress	Canaral	Damarla	· _	
tletord:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Remark	S	
astle	Date	11110	Depth	Depth	(mm)	Depth	1 10111		(hh:mm)	Position cleared using C	AT and Conn		
Ÿ	28/09/22	18:05	8.00	7.50	200	Dry	18.00	18.50	01:00	2. Hand dug inspection pit		ıy.	
<u>Hice</u>	29/09/22	07:44	8.00	7.50	200	Dry				3. Borehole drilled using 20		and too	ls.
Ö	29/09/22	17:48	18.50	18.50	200	Dry				4. SPT hammer AR3104-2	$022 (E_r = 64)$	00%) u	sed.
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							
멀	04/10/22	08:30	18.50	17.00	200	15.50							
Soils	04/10/22	17:00	30.80	None	146	-				All discounting in society	01		
<u>8</u>										All dimensions in metres	· ·	1:25	_
ctu	Method		ction pit +	Plan	_,	ando 3000			nny Hutt +	Logged DNeylon +	Checked		
로	Used:	Cable Po	ercussion :	+ Use	d: Coma	cchio GEC	O 601	∣Bv: Sa	m Carter	Bv: RStan	Bv:		Mas



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		2	of	12

-	<i>(</i> 00;	<u> </u>	Ena:	10.1	U.ZZ			00.25			E:446036.9 N:323032.6		or IZ
		Sample	s & Testing	ı	Mecha	nical	Log	s <u>s</u>	<u>م ۲ تو</u>	<u>_</u>		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill Instru mentati	Water	Description of Strata	(Thick ness)	Graphic Legend
4.70 - 5.00-5.45	19	D UT _(UT100)	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										- - -	

Г		Boring Pro	ogress and	Water Ob	servations		Chisell	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 III	0 1		
							l .			All dimensions in metres	Scale:	1:25	
		Inspec	tion pit +	Plan	t D a	ando 3000	+	Drilled Jon	ny Hutt +	Logged DNeylon +	Checked		
Įι	Jsed:			• Used	d: Coma	cchio GEC	601	By: Sa ı	m Carter	By: RŠtan	By:		AGS
<u> </u>	Method Inspection pit + Used: Cable Percussion +									1			

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		3	of	12

L														
			Sample	s & Testing		Mecha	anical	Log	<u>, s</u>	ა . E	_		Depth	Material
	Depth (m)	No		Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill Instru mentati	Water	Description of Strata	(Thick ness)	Graphic Legend
.uk. 17 12/22 - 10.32 103	9.00-9.45 9.00-9.45 9.00-9.45	31 32	SPT DSPT B	N=30								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)	(13.40)	
iaii. ask@soiis.cc	10.30	33	D										- - -	
w.solls.co.uk, El	10.50-10.95	34	UT _(UT100)	150 blows 89% recovery									- - -	
, rak. 019/7-332299, web. ww	-10.95-11.05	35	D										- - - -	
1977-1191	11.70	36	D										-	
teres, rough street, castrelly, west folksline, Wr to institute	12.00-12.45 12.00-12.45 12.00-12.45	38	SPT DSPT B	N=27									- - - - - - - - -	
idilas, roll	13.30	40	D										-	· · · · ·

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress		Seneral F	2omor	·kc	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		beneral i	Temai	KS	
		Ворит	Ворит	(11111)	Ворит								
									All dimension	ns in metres	Scale:	1:25	
Method Used:		tion pit +	Plan + Used		ando 3000 cchio GEO	I		ny Hutt + m Carter	Logged D	Neylon + RStan	Checked By:		AGS

BOREHOLE LOG

Contract:		Client:		Borehole:			
EMG Pha	se 2		SEGRO			Bł	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 O	oservations		Chisel	ling / Slow F	rogress	General	Domor	ko	
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remai	K5	
į L			Depth	Depth	(mm)	Depth			,				
2													
										All dimensions in metres	Scale:	1:25	
) I	Method Used:		tion pit +	Plai		ando 3000		Drilled Jon Bv: Sa	ny Hutt + m Carter	Logged DNeylon + Bv: RStan	Checked Bv:		ags



BOREHOLE LOG

•									
Contract:					Client:		Boreho	ole:	
	EMG Pha	ase 2				SEGRO			BH06
Contract Ref	f:	Start:	28.09.22	Ground	Level (m AOD):	National Grid Co-ordinate:	Sheet:		
7	765514	End:	10.10.22		80.29	E:446038.9 N:325052.6		5	of 12
Donth	Samples & Tes	sting	Mecha	nical Lo	g alls & alls			Depth	Material

	65) 4	End:	10.1	J.ZZ			30.29			E:446038.9 N:325052.6	5	of 12
		Samples	s & Testing	1	Mecha	anical	Log	<u> </u>	∞ _ 5 ,			Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instru-mentation	wate	Description of Strata	(Thick ness)	Graphic Legend
18.00-18.26 - 18.00-18.26 - 18.00-18.50	52	SPT DSPT B	10,15/24,26 for 60mm								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 grave siltatone.	-	
18.50-18.80 (0:02) 18.50-18.72		SPT	8,17/34,16	100	1 50	1 0		Air+Mist Brown)			grey siltstone. (MERCIA MUDSTONE GROUP) (stratum copied from 17.30m from previous sheet) Extremely weak reddish brown	18.50	• • • •
18.50-18.72 18.55-18.70 18.80-20.30 (0:03)	55 56	DSPT C	for 30mm	X	X	X		4 8			MUDSTONE, recovered as angular to subangular gravel with occasional fragments of greenish grey siltstone. GRADE III. (MERCIA MUDSTONE GROUP)	18.90	
19.30-19.50	57	С						## C			Extremely weak reddish brown MUDSTONE. GRADE II. Fractures: Closely spaced, randomly orientated, smooth, undulating, with	19.30	
-				93	40	10		Air+Mist (Brown)			occasional black staining along some surfaces. (MERCIA MUDSTONE GROUP) Extremely greenish grey fine to medium	- - -	
-					X			<u> </u>			grained SANDSTONE with frequent fine to coarse sand sized vugs. (MERCIA MUDSTONE GROUP)19.70-19.75m: Extremely weak reddish brown MUDSTONE with rough planar fractures either side up to 5mm infilled with sandy clay.	- - (1.65) -	
20.30-21.80											19.75m: Verging towards a very weak to medium strong and no vugs 20.10-20.30m: Becoming very weak reddish brown mudstone.	- - -	
21.00-21.15	58	С		07	10	10		Air+Mist (Brown)			Very weak reddish brown MUDSTONE.	20.95	
		Ū		67	46	18		Air+			GRADE II. Fractures: Closely spaced, randomly	21.25	
-											orientated, with yellow staining on surfaces. (MERCIA MUDSTONE GROUP)	21.40	
- -											Very weak greenish grey fine to medium grained SANDSTONE.	(0.40)	
21.80-23.30				X	X	X		X			Bedding fractures: Closely spaced, planar, with yellow staining on surfaces. (MERCIA MUDSTONE GROUP)	21.80	× × × ×
(0:04)				93	27	15		Air+Mist (Brown)			Very stiff reddish brown slightly sandy slightly gravelly CLAY with occasional fine to medium gravel size pockets of greenish grey silt. GRADE IVa. (MERCIA MUDSTONE GROUP)	(0.60)	× × × × × × × × × × × × × × × × × × ×
-											Extremely weak greenish grey SILTSTONE interspersed with reddish brown mudstone verging towards a silt	22.40	× × × × × × × × × × × × × × × × × × ×

_													
e E		Boring Pro	ogress and	Water C	bservations		Chisel	ling / Slow F	Progress	Conorol	Domor	l.o	
j O	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Reman	KS	
asile	Date	TIIIIC	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)				
ָ י													
5													
5													
<u> </u>													
ģ													
200											<u> </u>		
δ e										All dimensions in metres	Scale:	1:25	
i cir	Method		tion pit +	Pla	_	ando 3000			ny Hutt +	Logged DNeylon +	Checked		
	l Used:	Cable Po	ercussion :	+ ∣Us	ed: Coma	acchio GFC	0 601	Bv: Sa	m Carter	Bv: RStan	Bv:		MAGE

BOREHOLE LOG

Contract:					Client:		Boreho	le:	
	EMG Pha	se 2				SEGRO			BH06
Contract Ref		Start:	28.09.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:		
7	65514	End:	10.10.22		80.29	E:446038.9 N:325052.6		6	of 12
	Samples & Test	ting	Mecha	nical L	og s s s s			Depth	Material

				_									
		Samples	& Testing	N	1echa	anical	Log	S	를 수 를	<u>~</u>		Depth	Mater
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Log If (mm)	Flush Return	& Details Backfill & Instrumentation	Water	Description of Strata	(Thick ness)	Graph Leger
22.90-23.05	5 59	С		93	27	15		Air+Mist			sheet)	22.80	
23.30-24.80 (0:05)				*	*	*		*			SILTSTONE thinly interbedded with reddish brown MUDSTONE. (MERCIA MUDSTONE GROUP)		
				97	59	14		Air+Mist	(I)(A)(B)(B)(B)(B)(B)(B)(B)(B)(B)(B)(B)(B)(B)		Very weak reddish brown MUDSTONE with occasional fine to medium gravel size pockets of greenish grey siltstone. GRADE II. 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)				*	*	*					25.25-25.30m: Greenish grey siltstone.	- - - -	
				100	48	0		Air+Mist	(BIOWII)		25.35-25.40m: Greenish grey siltstone.	- - - - 25.85	
25.85-25.95	61	С									Weak to medium strong greenish grey thinly cross laminated SANDSTONE. (MERCIA MUDSTONE GROUP)	- -26.05 -	
26.30-27.80 (0:05)				100	77	57		Air+Mist	(DIOWII)		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) 26.35-26.55m: Interspersed with laminae and lenses (<10mm) of greenish grey siltstone.	-	
												(1.80)	

		Boring Pro	ogress and	Water Ob	servations		Chisell	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	15	
3													
5													
í													
5										All dimensions in metres	Scale:	1:25	
	Method Used:	Cable Po	ction 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: 01977-552255, Fax: 01977-552299, Web



BOREHOLE LOG

Contract:			С	lient:		Boreho	ole:		
EMG	Phase 2				SEGRO			Bŀ	1 06
Contract Ref:	Start:	28.09.22	Ground L	_evel (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	10.10.22		80.29	E:446038.9 N:325052.6		7	of	12
Samples 8	Testing	Mecha	nical Log	ν ⊗ E			D41-		. 4 ! . 1

Ī			Samples	s & Testing	I	Mech	anical	Log	ွှ	ails L- tion	jo.		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Log If (mm)	Flush Return	& Details Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
2002 1002	27.10-27.30		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 sheet)	- 27.85	
	27.80-29.30 (0:05) - 28.40-28.70		С		100	87	60		Air+Mist	(Brown) (Brown) (Brown)		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 sand 28.10-28.20m: Interspersed with lense (<2mm) of reddish brown clay. \ldots 28.25m: Verging towards a sandy silt. 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 29.08-29.19m: Weak thickly laminated siltstone.	28.40	× × × × × × × × × × × × × × × × × × ×
	29.30-30.80 (0:05)		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 - (0.85)	× × × × × × × × × × × × × × × × × × ×
	-				•	•	•		•			Borehole terminated at 30.80m depth.	-	

		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	Remai	KS	
Lid, Dianci Cince - Ca			·	·		·							
	ethod		tion pit +	Plan		ando 3000 ·			ny Hutt +	All dimensions in metres Logged DNeylon +	Checked	1:25	
	sed:		ercussion -	+ Use	d: Coma	cchio GEC	601	By: Sa	m Carter	By: RStan	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 - 10:32 | TC9 |

Rotary Cored

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STRUCTURAL SOILS

BOREHOLE LOG

Contract:		Client:		Borehole	:		
EMG Phas	se 2		SEGRO			BHO)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		1	of 1	1

			Sample	s & 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
11/12/22 - 10:33 TC9	0.00 0.00-0.10 0.10-0.40 0.20 0.40-1.00 0.50 0.50	1 3 4 6 5 7 9 2 8	D B D B ES D ES ES								TOPSOIL Very stiff orangish brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithology including quartzite, metamorphic rock, sandstone and rare mudstone. Stiff to very stiff reddish brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is angular and subangular fine to coarse of mudstone. Occasional pockets of grey fine grained siltstone. (MERCIA MUDSTONE GROUP)	0.10	**************************************
ls.co.uk.	1.00	10	ES								(MERCIA MODS TONE GROOF)	-	· × · × × × × × × × × × × × × × × × × ×
s.co.uk, Email: ask@soils.co.uk. 11/12/22	1.20 1.20-1.65 1.20-1.65 1.20-1.70	11 12 13	D SPT DSPT B	N=36								- - -	* * * * * * * * * * * * * * * * * * *
977-552299, Web: www.soils.co.uk,	2.00-2.45 2.00-2.45 2.00-2.50	15 16	SPT DSPT B	N=49								- - -	**************************************
255, Fax: 01	2.50	17	D									(4.45)	, ox, xo x x x x x x x x x
st Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299,	3.00-3.45 3.00-3.45 - 3.00-3.50	18 19	SPT DSPT B	N=50								-	* * * * * * * * * * * * * * * * * * *
est Yorksh	3.50	20	D									-	× · × × × × × × × × × × × × × × × × × ×
eries, Pottery Street, Castleford, We	4.00-4.31 - 4.00-4.45 - 4.00-4.50	21 22	SPT DSPT B	11,14/19,24,7 for 28mm				NI NI 200				- - - -	* · · · * · · · · · · · · · · · · · · ·

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow l	Progress		General I	Domor	ko	
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	'	Generari	Remai	KS	
			Depth	Depth	(mm)	Depth		'-	(1111.11111)	4 Danisian -		AT 1 C		
							4.30	4.50	00:30	2. Hand dug 3. Borehole 4. Borehole 5. Groundwa after 20 n	backfilled with I	to 1.20m. Omm casing Omm tools 1.00m. Ros	g and tool and casin e to 8.90r	ng.
										All dimensi	ons in metres	Scale:	1:25	
) I	Method Used:		ction pit + ercussion -	Plan Use		ando 3000 icchio GEC	I	Drilled By:	Martin	Logged By:	JAlton + RStan	Checked By:		AGS



BOREHOLE LOG

Contract:				С	Client:				Boreho	le:		
	EMG Pha	se 2					SEGRO				BH0	7
Contract Ref		Start:	21.09.22	Ground I	Level (m	AOD):	National Grid Co	o-ordinate:	Sheet:			
7	65514	End:	26.09.22		87.23	ı	E:445957	.0 N:325334.7		2	of 1 ′	1
	Samples & Test	ing	Mecha	nical Log		_				Denth	Mater	rial

			Sample	s & Testing	l l	Viecha	anıcaı	Log	l ≣ l	₩.		Depth	Material
	Depth				TCR	SCR	ROD	lf	Backfill	Water	Description of Strata	(Thick	Graphic
	(m)	No	Туре	Results	(%)	(%)	(%)	(mm)	🖁	>	'	ness)	Legend
					(70)	(70)	(70)	(11111)	//////			,	* · · · ·
	4.50-5.50		опт	40.0/40.0	l T	ΙŤ	I ↑		1///1				^ × · ×
	4.50-4.67		SPT	19,6/42,8					1///1				× .× •×
	-			for 5mm					1/2/1			<u> </u>	x
	₋ 4.50-4.95	24	DSPT						1//			4.85	°×
_									///		Extremely weak reddish brown, local thickly	7.00	<u>^ </u>
ğ								NI	$Y \leq Z \leq 1$		laminate, MUDSTONE. Occasional pockets and		
	-				45	29	20	NI	K///			-	
.33	_							200	1///1		laminae of very weak to weak fine grained	_	
-1								Li	1///1		siltstone. GRADE IVb.		
52	-								1///1		Bedding fractures: Closely to widely spaced,	-	
12/									1//		planar, rough, locally with clay infill.	-	
7	5.30-5.50	25	C						///		(MERCIA MUDSTONE GROUP)		
<u> </u>					↓	l	↓	↓	1///		4.95-5.21m: NI, recovered as gravel.		
¥	5.50-7.00							⊢ X	1///		5.14-5.50m: frequent grey silstsone.	<u> </u>	
8	3.30-7.00				ΙŢ	ΙŢ	ΙŢ	ΙŢ			5.29m: clay infill (<3mm).	-	
S ic									1///1		5.50-5.65m: AZCL		
(g)	-								1///1		5.65-6.17m: NI, recovered as gravel.		
sk(-								[///]		5.05-0.17111. NI, recovered as graves.	-	
LE LOG - A4P 705514 EAS MIDLAND AIRFORT.GFD - V10_01. lest Yorkshire, WF10 1NJ. Tel: 01977-552256, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:33 TC9		1						1	1//			L	
nai		1							1//				
ш	-								V///			(2.45)	
¥	-								K///			(2.40)	
8													
S.	-				00	27	10	NI	1///1		6.17-6.36m: thinly and thickly laminated.		
S.	-				90	37	19	NI 580	1///1			-	
≨	_					l ı	lι	360	[///]			_	
>									1//		6.42-6.54m: NI, recovered as gravel of		
Veb	-								///		mudstone and siltstone.	-	
_ > _	-								$K \leq \leq 1$		Thudstone and sinstone.	-	
296									K///				
52									1///1		6.72.6.96m; thinly and thickly interleminated		
-5-	-								1///1		6.72-6.86m: thinly and thickly interlaminated	-	
95	6.86-7.00	26	С						1///1		with weak grey siltstone.		
- 6	0.00-7.00	20			↓	↓	l ↓	↓	1/2/21				
5 K					\vdash	_		⊢ X	///		7.00-7.12m: grey siltstone	-	
본	7.00-0.50				ΙŢ	ΙŢ	ΙT	ΙŢ	///		7.00-7.12m. grey sillstone	-	
25.A									$V \leq C$				
52.	-								$\mathbb{K}/\langle \cdot \rangle$			7.30	
₹.	7 00 7 40								Y///		E. I. I. I. I. I. I.	7.30	
56	7.30-7.46	27	C						1///1		Extremely weak to weak reddish brown		
20									1///1		MUDSTONE.		
<u>2</u> <u>a</u>	-								1///1		Fractures: Very closely to closely spaced,	i i	
1,⊒	_								1//		randomly orientated, planar, rarely undulating,	-	
4,5		1						1 .!.	1//		smooth and rough, with abundant black staining.		
10.2	†	1			1400	40		NI	1//		(MERCIA MUDSTONE GROUP)	t	
ولا ا	_				100	43	36	NI	V././		(WILLIAM WOOD FOR CONT.)	}	
_ o _		1			1 1	1 1	1 ,	30	V///				
¥ řiř	-								$\mathbb{K} \leq \leq 1$			ľ	
- rs	-	1							K///			F	
ર્⊱∣		1						1	1////				
est		1						1	1///1			Γ	
	-	1							1///1			}	
ğğ l		1							1/2/21			L	
eg⊾		1							1/2/1				
S E	-	1							V//1			ŀ	
go တို့ပ					<u> </u>	<u> </u>	₩	<u> </u>	1///			<u> </u>	
jë L	8.50-12.00	1			♠ _	🛊 -	🛊 -	•	1//				
),	-	1							V//			(2.70)	
ا ح ام	-	1						ŃI	$\mathbb{K} \subseteq \mathbb{K}$			(2.78)	
iter <		1			43	0	0	NI	K///				
. P		1			~		ັ	20	1////			t	
ers 38,	-	1						1 1	1////		8.88-8.99m: grey siltstone.	}	
UT Priversion: v8_07 Log COMPOSI Potteries, Pottery Street, Castleford, W									1/2/1		o.oo-o.aam. grey siitstorie.		
g t													
<u>э</u> ш													

	I	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow l	Progress	General	Domork	2
С	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remark	5
						-						
										All dimensions in metres	Scale: 4	:25
	ethod sed:	Cable Pe	ction pit + ercussion -	Plan Used		ando 3000 cchio GEC		•	Martin	Logged JAlton + By: RStan	Checked By:	:25 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: 01977-552256. Fax: 01977-552299. \



Contract:				Client	i:			Boreho	le:		
EMG F	hase 2						SEGRO			В	H07
Contract Ref:	Start:	21.09.22	Ground	Leve	l (m /	AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	26.09.22		87	.23		E:445957.0 N:325334.7		3	of	11

			Sample	s & Testing		Med	cha	nical	Log	■	į.		Depth	Material
	Depth (m)	No	Туре	Results	TCF (%)	SC (%	R 6)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
1/12/22 - 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)	- - - -	
ils.co.uk, Email: ask@soils.co.uk. 1′	- - - - - - - - - - - -		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.	10.08	
ax: 01977-552299, Web: www.sc	- - - 11.00-12.50 - 11.10-11.40 - -		С		*		<u> </u>	*	*			11.00-11.03m: grey siltstone. 11.00-11.10m: NI.	(2.57)	
WF10 1NJ. Tel: 01977-552255, F.	- - - - - -				100	2	7	21	NI NI 70			11.74-11.75m: grey siltstone 11.94-11.99m, thinkly interlaminated with grey siltstone.	- - - - -	
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 - 10:33 TC9	- 12.50-14.00 12.50-12.65 - - - - - -		С		87	1	00	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	bservations		Chiselli	ing / Slow F	Progress	Conoral	General Remarks				
	Date	Time	Borehole Depth	Casing Depth	Diameter	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS			
3			Берит	Depth	(mm)	Берит			,						
į															
5															
5															
ĺ															
2															
Ē										All dimensions in metres	Scale:	1:25			
2	Method Used:					ando 3000 acchio GEC	I	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, Web



Contract:		Client:		Borehole:			
EMG Pha	se 2		SEGRO				
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		1 of '	11	

		Samples & Testing			Mechanical Log					_		Depth	Material
	Depth				TCR	SCR	ROD	If	Backfill	Water	Description of Strata	(Thick	Graphic
	(m)	No	Туре	Results	(%)	(%)	(%)	(mm	/ 8 /	>	'	ness)	Legend
	. ,				(70)	(70)	(70)		////		Extremely weak reddish brown, locally thinly	,	
	-								///		laminated, MUDSTONE. Occasional pockets of	-	
	_							Ń	V././		grey siltstone. GRADE III.	_	
					87	10	10	10	$K \leq \leq 1$		(MERCIA MUDSTONE GROUP)		
_					"			80	1///1			<u> </u>	
65	-							1	1///1		(stratum copied from 12.65m from previous sheet)	-	
\vdash					♦	♦	♦	♦	1///1		13.80-14.00m, AZCL.		
33								A	V//1			Γ	
00	-								1///			-	
7	_								///				
/22									///				
/12	-								$K \leq \leq 1$			-	
7	-								K///1			-	
- <u>·</u>									1///1				
n.c									1/2/21				
Ö.	-								1///1			-	
io	- 14.65-15.00	32	С					ŃI	V//]				
Ö	14.00 10.00	02						NI	1//				
ş	-							45	///			-	
.::	-							.	Y.			-	
ша									$K \leq \leq 1$				
Ш	15.00-17.00				A	A	A	1	K///1			Г	
¥	- 10.00 11.00								1///1			-	
8									1///1			L	
Sic									1///1				
S.	-								1//		45.00.45.50	-	
₹	-								///		15.32-15.50m, thickly interlaminated with grey	_	
								₩	///		siltstone.		
Ş	_							À	7.44			(5.85)	
. >	-								K///			(0.00)	
2 <u>9</u> 6									1///1			L	
52									1///1				
- 2-	-								1///1			-	
196	_								1///1			_	
- O					'	'	'		1//				
ă Š					75	14	14		1//		40.00.40.00 #1:11:4 #1 #1	_	
ξ	-					١,	١,		Y.		16.03-16.20m, thickly interlaminated with grey	-	
25 25								ŇI	$K \leq \leq 1$		siltstone.		
252 252	「							NI	1///1			Γ	
5₹	- 16.25-16.50	33	C					40	1///1			-	
56	_							1 70	1///1			_	
E LOG - A4F / 795514 EAST MIDLAND AIRFORT GF3 - V10_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									V//1				
ξ _Φ									1///			†	
ᄬ	- 1								V//			ŀ	
4	L I								$K \leq \leq 1$			L	
710									$\mathbb{K}/\langle \cdot $				
≅	-								K///		16.77-16.89m, thickly interlaminated with grey	ŀ	
1 o ∫	<u> </u>								1///1		siltstone.	Ļ	
shi					🚽	V	↓	↓	1/2/21		55		
5 g	17.00-18.50				—		 	 	レンン1			r	
ا ئۆر	17.00-18.50				T		T	T	1///1			ļ	
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<u>, </u>									///			ľ	
7 9	-								V///			ŀ	
e e	<u> </u>								$\mathbb{K} \subseteq \mathbb{K}$			L	
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o to									1/2/1				
e y									V//1			ļ .	
Prjversion: v&_07 Log COMPOSH itteries, Pottery Street, Castleford, W	- 1								1//		17.78-17.99m, thickly laminated.	ŀ	
S, F	L I								V././		17 .70-17 .33111, tritokiy lattiillateu.	L	
jve rie									$K \leq A$				
∑. ₹.					$\perp \perp$	Щ	$\sqcup \bot$	$\perp \perp$	V//			ь	

		Boring Pro	ogress and	Water Ob	servations		Chiselli	ng / Slow	Progress	Conoral	General Remarks			
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	(5		
3														
2														
É														
5										All dimensions in metres	Scale:	1:25		
	Method Inspection pit + Used: Cable Percussion +				Plant Dando 3000 + Used: Comacchio GEO			Drilled By: Martin		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 Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256. Fax: 01977-552299 v



Contract:		Client:		Borehole	: :			
EMG Phas	se 2		SEGRO			BH	3H07	
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		5	of	11	

			Samples & Testing			Иесhа	nical	Log	■	<u>~</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR RQI		If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
3 TC9	- - - - 18.50-20.00				100	3	0	NI NI 150			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) 18.27-18.37m, thickly interlaminated with grey siltstone.	18.50	
oils.co.uk. 11/12/22 - 10:3	- - - -										Extremely weak to weak reddish brown, locally thinly laminated, MUDSTONE. Occasional thin laminae of grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP)	- - - -(1.05)	
ık, Email: ask@s	- - -				100	70	64	NI NI			19.18-19.30m: thinly laminated grey siltstone. Extremely weak reddish brown MUDSTONE.	- - - 19.55	
b: www.soils.co.u	- - -										Recover as sandy silt angular gravel. GRADE III. Fractures: Randomly orientated, planar, rough, non-intact. (MERCIA MUDSTONE GROUP)	(0.45)	
55, Fax: 01977-552299, We	- - - -											- - - -	
:10 1NJ. Tel: 01977-55225	- - - -											- - - -	
ford, West Yorkshire, WF	- - - -											- - -	
itteries, 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 - 10:33 TC9	- - - -											- - - -	
Ę.		1											1

	Boring Pr	ogress and	Water Ob	servations		Chisell	ing / Slow l	Progress		Conoral I	Domor	lko	
Date	e Time Borehole Casing Depth Depth		Ulameter		From	То	Duration (hh:mm)	General Remarks			KS		
			•										
									All dimension	ons in metres	Scale:	1:25	
Metho Used:	Method Inspection pit + Used: Cable Percussion +			Plant Dando 3000 + Used: Comacchio GEO			Drilled By: Martin		Logged By:	JAlton + RStan	Checked By:		AGS
	Rota	rv Cored						Sneedie					

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	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		1	of	15

			Sample	s & Testing	N	Necha	anical	Log	l ≡	_		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
	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. 31.17. 31.17.
3 TC9	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	- (0.00)	* \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
2/22 - 10:3	- 0.30-0.90 ₋ 0.50	9 8	B ES	1xT+1xJ+1xV							subangular and subrounded fine to coarse of mixed lithologies of sandstone, siltstone and quartzite.	(0.60)	\$.6.0 \$.0.0 \$.0.0 \$.000
o.uk. 11/1	0.90 0.90-1.20	10 12	D B								Stiff reddish brown, mottled grey, slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is	0.90	0:x.*00 *o.
sk@soils.c	- 1.00 - 1.00 - 1.20-1.65	11 5 13	ES D DSPT	1xT+1xJ+1xV							subangular and subrounded fine to coarse of mixed lithologies of sandstone and quartzite.	(0.60)	* · · · · · · · · · · · · · · · · · · ·
ık, Email: a	1.20 - 1.70 -	14	В								Stiff greenish brown slightly gravelly sandy CLAY.	1.50	• • • • • • • • • • • • • • • • • • •
v.soils.co.u	1.70 1.80	15 16	D ES	1xT+1xJ+1xV							Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of mixed lithologies of sandstone, siltstone and quartzite.	-	
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	2.00-2.45	17	UT	121 - 120 - 120								- -	
977-552299	-											-	
55, Fax: 01	2.50 2.50-3.00	18 19	D B									-	
1977-5522	- - -											- -	
1NJ. Tel: 0	3.00-3.45 3.00-3.50	20 21	DSPT B									_(3.00)	
hire, WF10	- -											-	
est	3.50	16	D									-	
Castleford, We	-											- -	
Pottery Street, C	4.00-4.45 4.00-4.45	23	SPT UT	N=23								-	
Potteries, Potter	-											- - 4.50	
he Potte	Da	ring 「	Drograss	and Water Obs	on (cti	000		<u>'</u>	Chica	lling	/ Slow Progress		

ĭ.												
9		Boring Pro	ogress and	Wate	er Obs	servations		Chisel	ling / Slow F	Progress	General l	Domorko
elola	Date	Time	Borehole	Cas	٠ ١	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
asn			Depth	De	pth	(mm)	Depth			(1111.11111)	1 Position closed using C	AT and Conny
ذ ا	06/09/22	15:30	2.00	2.0	00	150	-	7.80	8.00	00:30	1. Position cleared using C. 2. Hand dug inspection pit t	
3	07/09/22	7/09/22 07:30 2.00 2.00 150					_				3. Borehole drilled using 20	
5	07/09/22	7/09/22 17:00 8.50 8.50 150				_				4. Groundwater struck at 8		
2	27/09/22					8.40				4.55m depth after 20 mil		
olai	27/09/22	7/09/22 17.00			.00	150	0.40				5. Groundwater struck at 1	
i,	21/03/22		00.00		.00	100					6. SPT hammer AR3469-2	022 (E _r = 84.00%) used.
SL												
2001											All dimensions in metres	Scale: 1:25
CIUI	Method	Danie Cable I Grouperen					ndo 3000 ·		Drilled Ber			Checked
חומ	Used:	Rota	Dania						Ву:	Martin	By: RStan	By:

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):		
EMG Pha	se 2				SEGRO			В	H08
Contract Ref:	Start: 06	6.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 28	8.09.22		88.31	E:445920.7 N:325248.3		2	of	15

L		000		Liiu.					JO.J I		L.770320.7 N.020270.0		01 10
			Sample	s & Testing		Mecha	anical	Log	I≡	ē		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
- 6	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.	-	× · · · · · · · · · · · · · · · · · · ·
12/22 - 10:33 TC	5.00-5.45 5.00-5.50	27 28	DSPT B								(MERCIA MUDSTONE GROUP)	- - -	× · · · · · · · · · · · · · · · · · · ·
k@soils.co.uk. 11/	5.50	22	D									- - -	**************************************
Yorkshire, WF10 1NJ. 1el: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. 11/12/22 - 10:33 1C9	6.00-6.45 6.00-6.45 6.00-6.50	30 31	SPT DSPT B	N=25								- - - - (3.50)	× × × × × × × × × × × × × × × × × × ×
7-552299, Web: ww	6.50	32	D									- - -	* * * * * * * * * * * * * * * * * * *
7-552255, Fax: 0197	7.00-7.45 7.00-7.50	33 34	DSPT B									- - -	× · · × · × · × · × · × · × · × · × · ×
WF10 1NJ. Iel: 0197	7.50-7.95 7.50	35	SPT D	N=27						<u>1</u>		- - -	*
ford, West Yorkshire,	8.00-9.50 8.00-8.45	36	DSPT		<u> </u>	<u> </u>	<u> </u>				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	× × × × × × × × × × × × × × × × × × ×
otteries, Pottery Street, Castleford, West	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 Phast Stagentinuities are extremely closely to very closely spaced randomly orientated undulating smooth stained black.	-	

	Boring Pro	ogress and	Water Ob	servations		Chisel	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	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:				Clier	nt:				Boreho	le:		
EMG Ph	EMG Phase 2							SEGRO			В	H08
Contract Ref:	Start:	06.09.22	Groun	d Lev	/el (m	AOD)):	National Grid Co-ordinate:	Sheet:			
765514	28.09.22		88	8.31			E:445920.7 N:325248.3		3	of	15	
0 1 0 7												

			Samples	s & Testing	ı	/lech	anical	Log	I	Ē		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (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) (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.	- -(2.24) - - - -	
					70	10	0				9.50-9.95m: AZCL 10.29m: laminae (<2mm) of extremely weak light greenish grey siltstone. Stiff thickly laminated to very thinly bedded reddish	- - - - 10.56	
	10.70	38	D		X	*		, , NI			brown silty CLAY with occasional subangular fine gravel size mudstone lithorelics. GRADE III. (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)	x
	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	<u></u>
	12.50-14.00				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	-	
-	-				60	0	0				grey siltstone 12.02-12.12m: Thickly laminated 12.27-12.38m: 50° to 60° undulating smooth discontinuity with 1mm soft clay infill on surfaces 12.40-12.50m: Stiff thickly laminated to very thickly bedded silty clay 12.50-13.10m: AZCL 13.10-13.15m: Very weak to weak light greenish grey siltstone 13.15-13.70m: Discontinuities are extremely closely to very closely spaced randomly orientated undulating smooth and rough predominantly	(3.90)	

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress	Genera	Domor	ko	
Suciola	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	K5	
ollis Ltd, Diarion Omos - Oa			·	·							To .		
0 8										All dimensions in metre		1:25	_
Oli uctui	Method Cable Percussion + Used: Comacchic				ando 3000 Icchio GEO		Drilled Ben By:	Wilson + Martin	Logged RSenior + By: RStan	Checked By:		AGS	

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BOREHOLE LOG

Contract:					Client:				Boreho	le:		
	EMG Pha	se 2						SEGRO			В	H08
Contract Ref	:	Start:	06.09.22	Ground	d Level	(m A	OD):	National Grid Co-ordinate:	Sheet:			
7	765514	End:	28.09.22		88.	31		E:445920.7 N:325248.3		4	of	15
	CI 0 T		N4I	:								

			Samples	s & Testing	N	Mecha	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
	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,	-	
2/22 - 10:33 1 C9	- _ 14.00-15.00 -				*	*	*	-			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	- - -	
st Yorksnire, Wr10 1nJ. 1el: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. 11772/22 - 10:33 109	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	- - -	
www.solis.co.uk, Effiall.	- - - - - - 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 stained discontinuity.	15.20	× × × × × × × × × × × × × × × × × × ×
7-55229, web.	15.50-17.00 -				A	A	A	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.	15.50	××××
01977-552255, Fax: 0197	16.00	43	D		97	9	0				(MERCIA MUDSTONE GROUP) 15.20-15.23m: 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,	-	
t rolkstille, wr to tho. Let.	- - - - - 17.00-18.50				*	¥	X	_			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 undulating smooth and rough clean with occasional black specks on surfaces.	-	
Potteries, Pottery Street, Castleford, Wes	-				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.	-	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	Progress	General	Domorl	40	
	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	
)					ando 3000 cchio GEC		•	Wilson + Martin	Logged RSenior + By: RStan	Checked By:		AGS	

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BOREHOLE LOG

Contract:				Clier	nt:				Boreho	le:		
EMG Ph	EMG Phase 2							SEGRO			В	H08
Contract Ref:	Contract Ref: Start: 06.09.22 Grou					AOD)):	National Grid Co-ordinate:	Sheet:			
765514	End:	28.09.22		88	8.31			E:445920.7 N:325248.3		5	of	15
0 1 0 7	0 1 0 7 11 1 1 1 1											

			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
2/22 - 10:33 TC9	17.93-18.03 - - - 18.50-20.00		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,	(6.40)	
Veb: www.soils.co.uk, Email: ask@soils.co.uk. 11/12	- - - - - - - - - - - - - - - - - - -				97	45	27	NI 20 100		<u>‡</u>	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 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 stained discontinuity 19.10-19.23m: 85° undulating clean	-	
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	_ 20.00-21.30 - - - - - - - 21.15-21.35		С		97	54	39				discontinuity 19.43-19.75m: 85° to 90° undulating, locally stepped, smooth black stained discontinuity 19.68-19.71m: Very stiff thinly laminated reddish brown clay 19.80-19.84m: Very stiff thinly laminated reddish brown clay 20.20-20.48m: Very weak to weak very thinly to thickly bedded light greenish grey siltstone. Bedding fractures are very closely to closely spaced undulating rough locally smooth, with occasional black specks on surfaces 20.22-20.43m: 85° to 90° undulating rough 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.	-	
uteries, Pottery Street, Castleford, West York	- - - - - - - - - -				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	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		Chiselli	ing / Slow F	rogress	General	Domor	·ko	
iei oi	Date	Time	Borehole	- 5	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remai	KS	
Š			Depth	Depth	(mm)	Depth			,				
5													
5													
2													
Ö,													
<u>2</u>													
<u> </u>										All dimensions in metres	Scale:	1:25	
Tucture	Method Used:		ercussion -	+ Plar Use	·: - ·	ando 3000 acchio GEC		Drilled Ben Bv:	Wilson + Martin	Logged RSenior + Bv: RStan	Checked By:		ags

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BOREHOLE LOG

Contract:		Client:		Borehole:			
EMG Pha	se 2		SEGRO			Bŀ	80h
Contract Ref:	Start: 06.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 28.09.22	88.31	E:445920.7 N:325248.3		6	of	15

ſ			Samples	& Testing	ľ	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
	22.70-23.00	46	С		100	65	50				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,	-	× × × × × × × × × × × × × × × × × × ×
30 S	23.00-24.50				*	*	*	30 120			0° to 5°, undulating, rough, with a little clay smear on surfaces.	23.00	× × × × × × × ×
12/22 - 10.	23.18-23.52	47	С					340			(MERCIA MUDSTONE GROUP) (stratum copied from 21.90m from previous sheet) Very strong thickly to medium bedded light grey	(0.55)	× × × × × × × × × × × × × × × × × × ×
L								X			SILTSTONE. GRADE I. Bedding fractures: closely to medium spaced, 0°, undulating, rough, with occasional black specks and staining.	23.55	× × × × × × × × × × × × × × × × × ×
www.soils.co.uk, Elliali. ask@soils.co.uk.	- -				100	74	60	NI NI 130			(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)	-(0.95) -	
www.					L.	y	<u> </u>				23.65-23.78m: 80° to 90° undulating rough clean discontinuity.	24.50	
01011-002200,	24.50-26.00 24.50-24.63		SPT	NP	33	0	0				AZCL. (MERCIA MUDSTONE GROUP)		AZCL
CINCIEC, WI CO CO CO CO CO CO CO C		48	D		X	X	X	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	
olleet, Castleiolu, West	20.00-21.30				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)	26.30	
Foureries, Fourery											(MERCIA MUDSTONE GROUP) Description on next sheet	_	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	Progress	General	Domorl	40	
	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	
)	lethod sed:		ercussion or y Cored		Plant Dando 3000 Used: Comacchio GEC			•	Wilson + Martin	Logged RSenior + By: RStan	Checked By:		AGS

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BOREHOLE LOG

Contract:				С	lient:			Boreho	le:		
	EMG Pha	se 2					SEGRO			Bŀ	80F
Contract Ref	:	Start:	06.09.22	Ground I	Level (m	AOD):	National Grid Co-ordinate:	Sheet:			
7	65514	28.09.22		88.31		E:445920.7 N:325248.3		7	of	15	
	Samples & Test	tina	Mecha	nical Log					5 "		-42 -1

		Samples	& Testing		/lecha	anical	Loa				D41-	Matarial
Depth (m)	No	Туре	Results			RQD		Backfill	Water	Description of Strata	Depth (Thick ness)	Material Graphic Legend
27.50-29.00	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 closely spaced undulating clean discontinuities. Extremely weak to very weak very thinly to thickly bedded reddish brown mottled grey silty	-	
- -27.95-28.08 - - - -	50	С		90	37	25				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) (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,	(4.20)	
29.00-30.50				<u> </u>	*	Y	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. 29.25-29.30m: Occasional 5-10mm diameter light greenish grey siltstone inclusions.	-	
30.10-30.35	51	С		90	67	42				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.	-	
- - - - - - - - -				•						30.44-30.50m: 40° undulating smooth discontinuity with 1-3mm soft clay on surfaces. Borehole terminated at 30.50m depth.	30.50	

		Boring Pro	ogress and	Water Ob	servations		Chiselli	ng / Slow F	rogress	General	Domor	·ko	
e e	Date	Time	Borehole		Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remai	KS	
ğ			Depth	Depth	(mm)	Depth			(
į,													
5													
5													
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Z Z													
2 5 0										All dimensions in metres	Scale:	1.25	
<u></u>						oxdot	1				4	1:25	_
Tuctu	Method Used:		ercussion · v Cored	+ Plan Use		ando 3000 acchio GEC		Drilled Ben Bv:	Wilson + Martin	Logged RSenior + Bv: RStan	Checked Bv:		MGS

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BOREHOLE LOG

Contract:					Client:		Boreho	ole:	
	EMG Pha	se 2				SEGRO			BH09
Contract Ref	•	Start:	16.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:		
7	65514	End:	26.09.22		74.23	E:445839.0 N:324955.9		1	of 14
	Samples & Testing Mech				og <u>∞ , 5</u> ,			Depth	Material

			Sample	s & Lesting	ľ	Viecha	anicai	Log	를 누틸	<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
_	0.00-0.00 0.00-0.20 - 0.10-0.10 - 0.20-0.20 0.20-0.40	1 3 2 4 6	D B ES D B	1xT+1xJ+1xV							TOPSOIL	(0.40)	\(\frac{1}{2}\), \(\frac{1}\), \(\frac{1}{2}\), \(\frac{1}{2}\), \(\frac{1}{2}\), \(\frac{1}\), \(\frac{1}{2}\), \(\frac{1}{2
):34 TC9	0.30-0.30 0.40-0.40 - 0.40-0.80	5 7 9	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	-	
/12/22 - 10	0.50-0.50	8	ES D	1xT+1xJ+1xV							metamorphic rock. Sand is fine to coarse.	(0.80)	
o.uk. 11	0.80-1.20 1.00-1.00	12	B ES	1xT+1xJ+1xV								-	
@soils.co	1.20-1.65		SPT	N=10							Firm reddish brown slightly sandy slightly gravelly	1.20	· · · · · · · · · · · · · · · · · · ·
.uk, Email: ask(1.20-1.65 - 1.20-1.70 - 1.40	13 14 15	DSPT B ES	14 10							CLAY. Sand is fine and medium. Gravel is subangular and subrounded fine mudstone, sandstone and chalk.	-	
www.soils.co	1.70 1.80	16 17	D ES									-	
-552299, Web:	2.00-2.45	18	UT	42 blows 100% recovery								-	
.552 <u>2</u> 55, Fax: 01977	2.50 2.50-3.00	19 20	D B									(2.80)	
odteries, 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 - 10:34 TC9	3.00 3.00-3.45 - 3.00-3.45 - 3.00-3.50	21 22 23	ES SPT DSPT B	N=15						<u>1</u>		-	
West Yorkshi	3.50	24	D									-	
Častleford, 1	3.80	25	ES							₹		4.00	
tteries, Pottery Street,	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.	-	# A

lhe		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow P	rogress	Conoral	Domarka
lerord:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
Casi	20/09/22	16:00	Depth 9.00	Depth 7.50	(mm) N/R	Depth 8.65	8.80	9.00	00:30	1. Position cleared using C	
olls Lta, brancn Omce -	20/03/22	10.00	3.00	7.00	TVIX	0.00	0.00	3.00	00.00	Hand dug inspection pit is 3. Borehole drilled using 20 4. Groundwater encounters to 7.10m after 30 minute 5. Borehole installed with a 50mm standpipe upon or standard in the standard i	nomm tools and casing. and at 11.60m depth. Rose as. dual install of 19mm and completion.
a o										All dimensions in metres	Scale: 1:25
structur	Method Used:		tion pit + ercussion -	Plar Use		2000 Mar cchio GEC		Drilled Chri By:	s 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 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 - 10:34 | TC9 |



BOREHOLE LOG

Contract:				Client:				Borehol	e:		
EMG Pha	se 2						SEGRO			В	H09
Contract Ref:	Start:	16.09.22	Groun	d Level (m	AOE)):	National Grid Co-ordinate:	Sheet:			
765514	End:	26.09.22		74.23	3		E:445839.0 N:324955.9		2	of	14
					_						

Ī			Sample	s & Testing	ľ	Mecha	anical	Log	∞ ₁. <u></u> 5	<u>~</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	
- 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	
maii: 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)	-	
: www.soils.co.uk, Emai	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									-	
II: 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, WP-10 11NJ. 1 EI:	7.50	38	D									- - -	
Fouery Street, Castleford, West York	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, Ponery Street, o	8.50	41	D									- - -	

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domor	ko	
	Date	Time	Borehole	- 3	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remai	KS	
ă			Depth	Depth	(mm)	Depth			(11111111)				
IIIS EW, DIGITOTI CITICO - O													
5										All dimensions in metres	Scale:	1:25	
סוו מכוניו פ	Method Used:	Cable Pe	tion pit +	Plan Used		2000 Mar		Drilled Chr i By:	s 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 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:		Borehole	e:		
EMG Pha	se 2		SEGRO			В	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

			Sample	s & Testing	l N	Necha	anical	Log	∞ , 5	_		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							9.00-9.40m: AZCL. ??? SPT	_	<u></u>
	- 9.00	42	DSPT	for 70mm								-	
_	-											9.40	
Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552289, Web: www.soils.co.uk, Email: ask@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 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	9.40	****** ****** ****** ****** ****** ****
5, Fax: 01977-552299, Web: www.soils.co.u	- - - - - 11.21-11.60 - -	1 44	С								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.	11.60	X X X X X X X X X X X X X X X X X X X
shire, WF10 1NJ. Tel: 01977-55255	- - 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.	-	
s, Pottery Street, Castleford, West Yorks	- - - 12.79-12.97 - - -	45	С		100	95	95		° ° ° Д.		12.54-13.21m: Sandstone fine grained interbedded with grey siltstone and local mudstone.	-	
Potterie					_	V	V						

	Used:	Cable Pe	ercussion -	- Used	: Coma	cchio GEC		Ву:	+ Pearson	By: RStan	By:		AGS
. [Method				t Dando	2000 Mar	k 2 +	Drilled Chri	s Jobson	Logged JAlton +	Checked		
										All dimensions in metres	Scale:	1:25	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	Contrai	Ttorriari		
		Boring Pro	ogress and				Chiselli	ing / Slow P	rogress	General	Remark	(S	

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BOREHOLE LOG

Contract:					Client:			Boreho	le:		
	EMG Pha	se 2					SEGRO			В	H09
Contract Ref		Start:	16.09.22	Ground	d Level (m AOI	D):	National Grid Co-ordinate:	Sheet:			
7	65514	26.09.22		74.23		E:445839.0 N:324955.9		4	of	14	
	Camarilas 9 Tast		N4							\top	

			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.	-	

		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	
;			Берит	Берит	(111111)	Берит							
										All dimensions in metres	Scale:	1:25	
)	1ethod		tion pit +	Plan		2000 Mar		Drilled Chri	is Jobson		Checked		
U	Jsed:		ercussion -	• Used	d: Coma	cchio GEC	0 405	By:	+ r Pearson	By: RStan	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.
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BOREHOLE LOG

Contract:					Client:			Boreho	le:		
	EMG Pha	ase 2					SEGRO			Bŀ	109
Contract Ref		Start:	16.09.22	Ground	Level ((m AOD):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	26.09.22		74.2	23	E:445839.0 N:324955.9		5	of	14
	Samples & Tes	tina	Mecha	nical I c	n «x	5			5	١.,	

7	7655	514	End:	26.0	9.22		74.23		E:4458	339.0 N:324955.9		5 c	of 14
		Samples	& Testing		Mech	anical	Log ∞ <u>.</u> <u>5</u>	_			Г	Depth	Mate
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Log (mm) Backfill & Backfill & mentation	Water	De	escription of Strata	(Grap Lege
18.00-19.50 18.06-18.33		С		100	74	71		M ar sa Be ro ye (N (s	UDSTONE. Find occasional andstone. edding fracture ugh, rarely un MERCIA MUDS tratum copied 1.18.00-18.37 own fine sand.	m: Occasional pockets of rom: 13° >3mm open with sar	tstone rained		
19.50-21.00				*	*	X		fir ?? m sil	18.33-18.3 ne reddish brow 18.57-18.86 ? level: weak sedium strong tlty sandy grave 18.57-19.06 19.40-19.50 19.50-19.60	4m: 4° planar rough <3mm n sand infill. im: NI due to difference rock sitts of the multiple of the multiple illtstone interbedded. Recov I of mudstone and siltstone. m: Interbeds siltstone mudst m: NI.	ks and - eak to - ery as -		
19.96-20.38	3 51	С		82	79	61		sa	and and parting		- - -		
· 04 00 00 ==				Y				we br	thorelicts of greeakness. 20.40-20.65 20.55-20.5 own silty CLAN	20.40m: NI due to weal by siltstone, 4° planar rough m: Bands of grey siltstone. 36m: 5° undulating rough ro 7 infill (up to 4mm) >3mm ?? 5m: Interbedding grey siltstor	eddish	21.00	• • • •
21.00-22.50				100	93	93		gr sil m (N	rained ŚANDS' Itstone. Locally udstone. //ERCIA MUDS 21.26-21.37 21.40-21.62	to weak reddish brown TONE. Rare pockets of weak with laminae of reddish STONE GROUP) m: NI due to weakness. m: Mudstone. 68m: 79° undulating rough	k grey brown clean	1.78)	
21.97-22.19	52	С				•					- - - - -		
Bc	oring F	Progress	and Water Ob	servat	ions		Chise	lling / Sl	ow Progress				
	Time	Boreh	nole Casing	Boreh Diame (mn	nole eter	Wate Dept	From	To	Duration	General F	Kemar	KS	
1				1	- 1		- 11			All dimensions in metres	Scale:	1:25	
 Method	lne-	ection p	it + Plan	ıt r	and-	2000	Uark 2 +	Drillad	Chris Jobson	Logged JAlton +	Checked		

	Boring Pr	ogress and	Water Ob	servations		Chisell	ing / Slow P	rogress	Conoral	Remarks	
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:							Drilled Chri By:	s Jobson +	Logged JAlton + By: RStan	Checked	AGS



BOREHOLE LOG

Contract:				Client:		Boreho	le:	
	EMG P	hase 2			SEGRO			BH09
Contract Ref	: •	Start:	16.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:		
7	'65514	End:	26.09.22	74.23	E:445839.0 N:324955.9		6	of 14
Depth	Samples &	Testing	Mecha	nical Log & lating at the state of the state	Description of Strata		Depth (Thick	Materi Graph

	00:	014	Ena:	∠0.0	J.44	<u> </u>		+.23	E:445039.0 N:324955.9 0	OT	14
		Samples	& Testing		Mech	anical	I Log ⊸	7 E -	Dept	n Mat	ıteri
Depth (m)	No	Туре	Results	TCF (%)	SCR (%)	RQD (%)	I Log	Instru- mentatic Water	Description of Strata (Thickness	(Gra	aph
22.50-24.00				A	Ā	A			22.50-22.60m: AZCL.		
									22.71-22.76m: NI due to weakness. 22.7	3 : : : :	::
22.98-23.29	53	С		89	85	80			Weak, local very weak, reddish brown MUDSTONE. Occasional laminae of weak reddish brown fine grained sandstone. GRADE II. (MERCIA MUDSTONE GROUP) 22.78m: Weak local very weak slightly carbonate unbedded fine MUDSTONE. Occasional bedded of reddish brown weak fine grained sandstone. 22.89-22.90m: 6° planar rough clean, possible induce.		
24.00-25.50				X	X	X			slightly fine sand infill. 23.53-23.55m: 9° planar rough >3mm fine sand infill, clean. 23.82-23.93m: Weak sandstone. 23.93-24.00m: AZCL.		
24.58-24.84	- 54	С							24.34m: 3° undulating rough induce. 24.42m24.45m: NI due to weakness. 24.42-24.63m: Planar rough.		
				97	95	89			24.82-24.91m: Planar rough. (4.22)	
									25.35-25.50m: Pockets of fine sand.		
25.50-27.00									25.57m: Slightly sandy occasional pockets of reddish brown fine sand.		
25.98-26.28	55	С									
				100	100	84			26.27-26.28m: Extremely weak sandstone mottled with grey siltstone. (band and pockets)		
	1								26.89-27.00m: Drilling disturbed.		=

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	Conoral	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	
)	lethod sed:	Cable Pe	tion pit +	Plan Used		2000 Mar		Drilled Chr i By:	s Jobson +	Logged JAlton + By: RStan	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 - 10:34 | TC9 |



BOREHOLE LOG

Contract:					Client:				Boreho	ole:		
	EMG Pha	se 2						SEGRO			В	H09
Contract Ref	•	Start:	16.09.22	Ground	Level	(m AO	D):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	26.09.22		74.	23		E:445839.0 N:324955.9		7	of	14
	Samples & Test	ina	Mecha	nical I c	na «x	_					Τ.	

		Sample	s & Testing		Mech	anical	Log	ig ⊦ ≅	ъ			Dept	h Materi
Depth (m)	No	Туре	Results	TCR (%)		anical RQD (%)	If (mm	Backfill & Instru-	Water		escription of Strata	(Thic	
27.00-28.50	56	O		100	88	67				grey, MUDSTO Bedding fractur rough, clean. (MERCIA MUD . 27.00m: E mottled grey u MUDSTONE. rough clean. F clean, CIRIA GF . 27.00-27.09 . 27.07-27.09 . 27.18-27.19 . 27.28-27.29 . 27.32-	es: 0-10°, closely spaced, p STONE GROUP) xtremely weak reddish brown inbedded slightly carbonate Fracture bedding 0-10° Fracture 60-70 undulating RADE III)	olanar, - n local - e fine - planar - rough - an	
28.50-30.00				<u> </u>	 					27.65-27.73 27.73-27.74 27.83-27.84 27.83-27.83	4m: 4° planar rough clean. 4m: 5° planar rough clean. 7m: NI.	(3.00	0)
- - . 29.44-29.65	57	С		100	95	77				28.07-28.36 28.36-28.56 28.61-28.65 28.94-30 with mudstone., 29.00-29.07 29.16-29.26 mudstone and s 29.36-29.37 29.43-29.44	Bm: 14° undulating rough clear 7m: 7° undulating rough clear .00m: Grey siltstone interbe 7m: 28° undulating rough clea 28m: NI, recover as silty gra	an an edding - an avel of -	
- - -										\(\scrt{\cdots}\) 29.95-29.96	1m: 3° planar rough clean. 6m: Planar rough clean. ated at 30.00m depth.	30.0	0
												-	
-												-	
Po	ring [Progress	and Water Ol		ione			Chico	lling	/ Slow Progress	1		
	ring i Time	Bore	hole Casing	Borel Diam (mr	nole eter	Wate	- 11	From	ani ig	To Duration (hh:mm)	General F	Remarks	
				\(\frac{1}{1}\)	,								
NA-4h											 	Scale: 1:	25
Method Used: C	able	ection p Percuss	sion + Use	. –		2000 chio (GEO		By	illed Chris Jobson H Marc Pearson	By: RStan	Checked By:	A(

		Boring Pro	ogress and	Water Ob	servations		Chiselli	ng / Slow P	rogress	General	Domorle	′0	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	.5	
2				-									
í													
2										All dimensions in metres	Scale:	1:25	
) I	/lethod Jsed:		tion pit + ercussion -	Plan Used		2000 Mar		Drilled Chri By:	s Jobson +	Logged JAlton + By: RStan	Checked By:		AGS
<u> </u>		Rotai	v Cored			Sonic		Man	Pearenn	I	1		



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

		Sample	s & Testing	1	Mech	anical	Log	a - ig	<u> </u>		Depth	М
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm	Backfill & Instru-	Water	Description of Strata	(Thick ness)	G L
0.10-0.10	1	ES	1xT+1xJ+1xV					70 2		TOPSOIL	-	<u>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </u>
-	'		121 - 120 - 124								(0.60)	77.
0.30-0.30	2	D B									-	<i>i</i> ₂ ·:
-											0.60	:\.'.
- 										Reddish brown slightly gravelly slightly clayey coarse SAND. Gravel is fine to medium sub	-	-:- -::
0.70-0.70	4 5	ES B	1xT+1xJ+1xV							rounded to rounded of mudstone, siltstone and sandstone.	(0.60)	- T
0.90-0.90	6	D								Saliusione.	_ (0.00)	
-											1.20	_
1.20-2.20		SPT	N=19	1	A	A				Stiff reddish brown mottled light grey slightly sandy silty CLAY with frequent angular to subangular fine	1.35	×
1.20-1.20	7	DSPT	IN-19							to medium gravel sized mudstone lithorelics.	1.00	×-
- 1.30 -	8	D								Occasional rootlets. (MMG, GRADE IVA) Stiff thinly laminated to very thinly bedded light	(0.40)	×_;
				100	o	0				greenish grey clayey SILT with frequent angular to subangular fine to medium gravel sized siltstone	1.75	\times
-										lithorelics frequent thick lamanite and very thin beds of extremely weak siltstone. (MMG, GRADE)	<u> </u>	
_										(III)	-	
-					\	l v				Stiff thinly and thickly laminated reddish brown silty CLAY with frequent fine gravel sized mudstone		<u>×</u> .
2.20-3.70 2.20-2.62		SPT 8	 8,10/10,11,16,1;	3 ↑	1	1				lithorelics. (MMG, GRADE III) 1.98-2.02m: Thinly to thickly laminated light	-	
-			for 40mm							greenish grey siltstone.	į	
-										2.54-2.70m: Lithorelics are angular to	-	
2.70	9	D								subangular fine to coarse gravel size.	(2.05)	
-											-	
-				100	0	0		**	·		-	
-									> > >		-	
-									> >			
-											-	
-					V	V						
3.70-5.20				1	1	1				Extremely weak very thinly to thickly bedded	3.80	×
-										reddish brown MUDSTONE. Bedding fractures are very closely to closely spaced 0° to 5° planar	Ĺ	
4.00	10	D		100	10	0				and undulating smooth clean and locally with black spots and with <1mm clay smear on surfaces.	-	
-										(MMG, GRADE II)		
-										3.90-4.15m: 75° undulating smooth discontinuity with <1mm clay smear on surfaces.	-	
			l				I	• • LI • • • • • • • • • • • • • • • •	1	1	1	
E	Boring F		s and Water Obs	servati Boreh		\\/_+				General Remarks		
Date	Time	Bore De		Diame (mn	eter	Wate Dept	- 11	1 D	ition	placed using CAT and Carny		
27/09/22 28/09/22		17. 17.		150		15.5		2. Han	id du	cleared using CAT and Genny g inspection pit to 1.20m.		
28/09/22		20.		150		-	·			ameters installed with 50mm standpipe upon completion.		
Mothod	D		alina I Diost						_	imensions in metres Scale: 1:25 Illed Logged Check	od.	
Method Used:		iic sam _l tary Cor			omac	chio (GEO	205	By		.eu	

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

General Remarks

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

		L
Method Used:	sampling y Cored	+



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	

		Samples	& Testing	N	/lecha	anical Lo	og ≝ - ig a		Depth	Materia
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%) (n	Backfill & Backfill & Mater	Description of Strata	(Thick ness)	Graphic Legend
5.20-6.70	11	D		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 spots and with <1mm clay smear on surfaces. (MMG, GRADE II) (stratum copied from 3.80m from previous sheet)	-	
-		J J		100	0	0		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. 4.92-4.95m: Very weak light greenish grey siltstone. 4.96-5.02m: 45° undulating smooth clean discontinuity.	(4.40)	
6.20	12	D						5.20-5.25m: Weak reddish brown mudstone 5.41-5.42m: Extremely weak light greenish grey siltstone 5.52-5.60m: (Soft) reddish brown silty clay with frequent angular fine to medium gravel size lithorelics.	- - - -	
6.70-8.20	13	D		Ä		*		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. 6.47-6.52m: Extremely weak light greenish grey siltstone. 6.60-6.70m: Drilling disturbed, recovered as	-	
	13	U		95	0	0		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 7.15-7.25m: Moderately weak light greenish grey siltstone 7.15-7.32m: 75° undulating smooth	8.20	
8.20-9.70				90	47	7		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 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)	-	

e l		Boring Pro	ogress and	Water Ob	servations					porol	Remarks		
Castlerord:	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth					Remarks		
olis Ltd, Branch Uffice - Ca													
al So							,	All dime	nsions in met	es	Scale:	1:25	
Structura	Method Dynamic sampling + Used: Rotary Cored Plant Used: Comacchio G						205	Drilled By:	Marc Pearso	Logged By:	RSenior	Checked By:	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: 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.



BOREHOLE LOG

Contract:		Client:		Borehole	э:		
EMG Pha	se 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	l N	Иесhа	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
- - 9.15-9.35 - -	14	С		90	47	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)	
9.70-11.20	15	С		*	*	*				8.96-9.06m: Stiff reddish brown silty clay. Very weak thickly laminated to thickly locally medium bedded reddish brown MUDSTONE. Bedding fractures are very closely to closely locally	-	
	15	C		100	53	33				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 9.70-9.85m: 90° undulating smooth 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	10.45	
11.20-12.70				*	*	*				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.	-	
11.50	16	С		83	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) - - - -	
- - - -										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	12.60	
12.70-14.20 - 12.99-13.12		С		93	42	21				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	-	
_										discontinuity.	-	

	Boring Pro	ogress and	Water Ob	servations		Co	noral	Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	Ge	IICIAI	Remarks		
		Борит	2 3 9 4 1	(11111)	2 Spui					
,						All dimensions in metre		Scale:	1:25	
Method		sampling	+ Plar		echio GEO	Drilled	Logged	PSenior	Checked By:	I MAN

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	le:		
EMG Pha	se 2						SEGRO			В	H10
Contract Ref:	Start:	27.09.22	Ground	d Level (m	AOD)):	National Grid Co-ordinate:	Sheet:			
765514	End:	28.09.22		87.35			E:445787.3 N:325286.2		4	of	12
		_								_=	

Very weak very thickly to thinly bedded reddish brown Multiple of the property			Samples	s & Testing		Mech	anical	Log ≝ , <u>§</u>	Ē	Depth Mat
14.20-15.70 93 42 21 21 22 23 24 24 24 24 24 24	Depth (m)	No	Туре	Results		SCF (%)	RQD (%)	If Back[] Instrumenta	Water	
14.20-15.70	-				93				• • • • • • • • • • • • • • • • • • •	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.
15.70-17.20	-	18	С		100	59	49		· · · · · · · · · · · · · · · · · · ·	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
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 dedded reddish brown mudstone 16.20-16.23m: Stiff reddish brown mudstone 16.20-16.23m: Stiff reddish brown mudstone 16.20-16.23m: Stiff reddish brown dedded reddish brown dedden and the stiff requent angular fine gravel size lithoretics 17.20-17.38	15.70-17.20 -					 X	*		° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	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)
17.20-18.70 17.20-17.38 20 C	16.27-16.57	19	С		100	73	41		· · · · · · · · · · · · · · · · · · ·	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 Depth Depth Depth Depth Depth Depth All dimensions in metres Scale: 1:25			С		95	13	7		• • • • • • • • • • • • • • • •	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
Date Time Borehole Casing Depth Dept	17.84-18.28	21	С						•	
Date Time Borehole Casing Depth Dept	Bor	ring F	Progress	and Water O	bserva	tions				0 15
			Borel	hole Casing	Bore Diam	hole leter				General Remarks
									All d	limensions in metres Scale: 1:25
Method Dynamic sampling + Used: Drilled	Method D v	ynam	ic samo	oling + Pla	nt			Ш	_	illed Logged Checked

		Boring Pro	ogress and	Water Ob	servations				Co	noral	Remarks		
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth			Ge	- IICI AI I	Remarks		
- 30IIIO													
טפווס ביני,								All dimer	sions in metre	s	Scale:	1:25	
סוו מכומו מי	Method Used:		sampling y Cored	+ Plan Used		cchio GEC		Drilled	Marc Pearson	Logged	RSenior	Checked By:	AGS



BOREHOLE LOG

Contract:				Client:			Borehole	e :		
E	EMG Phase 2				SEGF	RO			В	H10
Contract Ref:	Start	27.09.22	Groun	d Level (m AOD):	National Gr	rid Co-ordinate:	Sheet:			
76551	4 End:	28.09.22		87.35	E:445	787.3 N:325286.2		5	of	12

			Sample	s & Testing	N	Mecha	anical	Log	∞ - ioi	<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> </u>		Boring Pro	ogress and	Water Ol	servations					, O t	oorol	Remarks		
n o o o o o	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth)CI	leiai	Remarks		
S LIU, DIGITOTI CITICO - CG			•	•		·								
5							,	All dime	nsions in me	tres	3	Scale:	1:25	
סוו מכומי	Method Used:							Drilled By:	Marc Pears		Logged By:	RSenior	Checked By:	AGS

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STRUCTURAL SOILS

BOREHOLE LOG

Contract:				Client:		Borehole	:		
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
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								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. 1.11. 1.11
-	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.	-	[[]
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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. 019/7-552239,												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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<u> </u>	-											1	<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									1	<u> </u>
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(100)													<u> </u>
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The		Boring Pro	ogress and	Water	Obse	ervations		Chisel	ling / Slow	Progress	Canaral Damarka
Castleford:	Date	Time	Borehole	Casir	19 [Borehole Diameter	Water	From	То	Duration (hh:mm)	General Remarks
- Cast			Depth	Dept	th	(mm)	Depth			(1111.11111)	1. Desition elected using CAT and Connu
Ÿ	27/09/22		7.50	7.50)	200	-	10.00	10.50	01:00	Position cleared using CAT and Genny. Hand dug inspection pit to 1.20m.
<u>6</u>	28/09/22		7.50	7.50)	200	-	10.50	11.00	01:00	3. Borehole drilled using 200mm tools and casing.
ğ	28/09/22		12.50	12.5	0	200	11.45	11.00	11.50	01:00	4. Groundwater struck at 9.00m depth, rising to
Branch Office								11.50	12.00	01:00	8.40m depth after 20 minutes.
Bra								12.00	12.50	01:00	5. Groundwater struck at 21.00m depth. Rose to
ΞÉ											18.70m after 20 minutes.
											6. Borehole installed with 50mm standpipe upon
structural Soils											All dimensions in metres Scale: 1:25
ij	Method	Inspec	tion pit +	P	Plant	Da	ndo 2000 -	+	Drilled	Mathew	Logged DNeylon + Checked
štruc	Used:		ercussion ·	+ U	Jsed:	Coma	cchio GEO	205	By:	Heath +	By: JAlton 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 - 10:35 | TC9 |

STRUCTURAL SOILS **BOREHOLE LOG**

Contract:			С	lient:			Boreho	le:		
EMG Pha	ase 2					SEGRO			В	H11
Contract Ref:	Start:	27.09.22	Ground L	Level (m AOE)):	National Grid Co-ordinate:	Sheet:			
765514	End:	30.09.22		79.89		E:445759.5 N:325134.8		2	of	13
0 1 0 7									\neg	

L		000	<i>,</i> 1 –	Ena:	30.0			.05		E.445/59.5 N.325134.6		or 13
			Sample	s & Testing	ı	Mechanical	Log ∞	<u>ا</u> ق. بـ	_		Depth	Material
	Depth (m)	No	Туре	Results		SCR RQE	=	Instrumentati	Water	Description of Strata	(Thick ness)	Graphic Legend
	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)	-	
- I : Nacconstant	5.50 5.50-6.00 5.70	21 23 22	ES B D							Firm greyish brown slightly sandy slightly gravelly	5.70	
	_									CLAY. Sand is fine. Gravel is subangular to subrounded fine of chalk and occasionally mudstone.	_	
. www.soils.co.ak, r	6.00-6.45 6.00 6.00-6.50	25 26	SPT D B	N=27							- - -	
	7.00	27	D								- (3.30)	
	7.50-7.95	28	UT	90 blows 100% recovery							- - -	
	8.00	29	D						<u>1</u>		-	
									Y		9.00	

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow	Progress	General	Domork	•
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)	General	Remark	5
		Берит	Берит	(mm)	Берит				completion.		
											_
									All dimensions in metres	Scale: 1	:25
Method Used:			Plan Used		ando 2000 cchio GEC		Drilled By:	Mathew Heath +	Logged DNeylon + By: JAlton	Checked By:	AGS
	Rota	rv Cored					•	ee Smith	,	1 -	- EXXX

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 Pha	EMG Phase 2 ntract Ref: Start: 27.09.2						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

	Samples & 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 / Slov	v Progress	General	Domor	ko	
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remai	KS	
íL			Depth	Depth	(mm)	Depth			(11111111)]			
3													
5													
š													
Ĭ													
2													
5										All dimensions in metres	Scale:	1:25	
) I	Method Used:		tion pit +	Plar Use		ando 2000 icchio GEC	I	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:		Borehole	€:		
EMG Ph	ase 2			SEGRO			В	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

[Samples	& Testing	ı	Mecha	anical	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
	13.50-15.00					•	•				AZCL. Extremely weak reddish brown MUDSTONE. NI,	- - 13.73	AZCL
22 - 10:35 TC9	- - - 14.09-14.29	41	С					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	(0.28) _14.01 _	
ll: ask@soils.co.uk. 11/12/	- - - -				85	53	47	150 210			MUDSTONE. Occasional laminae of greenish grey siltstone. Frequent calcite pockets (< 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.	-	
t, Emai	_ 15.00 - 16.50				*	*	*	*			14.41-14.61m: Grey siltstone. 14.47-14.49m: 7° undulating rough clean silty	-	
299, Web: www.soils.co.uk	15.12-15.43 - - -		С					NI			clay infill 14.55-14.56m: 3° planar rough clean 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.	(3.26)	
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 - 10:35 TC9	- - - -				100	95	90	180 310			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.	-	
s, WF10 1NJ. Tel: 019	- _ 16.50-18.00 - -				*	X	X	X			16.50-16.65m: AZCL.	-	
est Yorkshire	- - -										16.95-17.19m: Weak grey siltstone.	- - -	
ord, W	-				90	69	62	NI 85			17.19-17.27m: NI.	17.27	
es, Pottery Street, Castlefo	- - - 17.56-17.75 - -	43	С					300			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.	-	
Potteries						 	<u> </u>	V			17.04-10.00m. Ni, moded with grey slitstoffe.		E

	Boring Pro	ogress and	Water Ob	servations		Chisell	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:						I	Drilled By:	Mathew Heath +	Logged DNeylon + By: JAlton	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 - 10:35 | TC9 |

BOREHOLE LOG

Contract:			Client:		Boreho	le:		
EMO	Phase 2			SEGRO			ВН	11
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		5	of '	13
Sample	s & Testing	Mecha	nical Log			Depth	Mat	terial

			Samples	s & resurig			iariica	_	J‱ J.⊡	ē		Depth	Material
	Depth (m)	No	Туре	Results	TCI (%	R SCF) (%)	RQE (%)	lf (mm	Backfill & Instru-	Water	Description of Strata	(Thick ness)	Graphic Legend
2 - 10:35 TC9	18.00-19.50 18.10-18.45		С		A			A		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)	-	
ail: ask@soils.co.uk. 11/12/2	- - - - -				100			NI NI			19.02-19.06m: Pockets of grey siltstone.	- - - -	
ls.co.uk, Em	19.50-21.00 19.60-19.97		С		*	1	1	X			19.50-19.57m: Pockets of grey siltstone 19.65-19.68m: Sandy silty mudstone.	-	
LECO - 74F 1931 LECO - 74F 1931 LECO - 705 LE	- - - - - -				100	97	97	NI NI NI			19.88-20.50m: interbedded with grey siltstone 20.02-20.06m: 14° planar rough clean.	-	
e, WF10 1NJ. Tel: 01977-55225	21.00-22.50				*	X	X	 		<u>‡</u>	20.76-20.83m: Pockets of silty fine sand 20.86-21.23m: Very weak to weak grey siltstone 21.08-21.09m: 5° planar rough <3mm silty clay infill.	- - -(7.73)	
eries, Pottery Street, Castleford, West Yorkshir	21.60-21.82 - - - -	46	С		100	0 100	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, Potter	 - -											-	

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow	Progress		eneral I	Domor	ko	
Da	ate	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	G	enerari	Temai	KS	
ס בותי חומוניו			·	·		·								
										All dimension	s in metres	Scale:	1:25	
	Method Inspection pit + Plant Dando 20 Used: Cable Percussion + Used: Comacchio							Drilled By:	Mathew Heath +		Neylon + 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: 01977-552256, Fax: 01977-552299, Web

BOREHOLE LOG

Contract:				Client:		Boreho	le:		
EMG Pha	se 2				SEGRO			BH	11
Contract Ref:	Start:	27.09.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	30.09.22		79.89	E:445759.5 N:325134.8		6	of 1	13
Samples & Tes	tina	Mecha	nical Lo	oa ∞ . 5 .			Donth	Mat	orio

			Samples	& Lesting	_ N	/lecha	anıcal	Log	II &	<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 - 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)	- - - -	
oils.co.uk. 11/12	23.50-25.00				*	-	*	¥			23.30-23.41m: Grey siltstone. 23.38-23.50m: NI.	-	
, Email: ask@s	- - - - 24 02 24 20	40									23.77-23.78m: 5° planar rough clean. 23.90-23.92m: 8° undulating rough clean.	- -	
vest 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	_ 24.02-24.20 - - - - - -	48	С		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.	- - - - -	
/F10 1NJ. Tel: 01977-552255, Fax: 0	25.00-26.50 - 25.16-25.47 - - - -		С		100	83	83	NI NI			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	25.00	
teries, Pottery Street, Castleford, West Yorkshire, W	26.50-28.00 26.59-26.80		С		Y	V	*	480			siltstone 25.50-25.74m: 69° undulating rough clean 25.72-25.81m: 85° undulating rough clean 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.	- - - - - -	
teries, Pott	-				100	67	57	80 480			26.78-26.86m: 39° planar rough clean.	-	

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow	Progress	Canal	al Rema	rko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	Geriei	ai Keina	IIKS	
				, ,								
,												
									All dimensions in me	etres Scale:	1:25	
Method Used:	Cable P	ction pit +	Plan Used		ando 2000 cchio GEC		Drilled By:	Mathew Heath +	Logged DNeylon By: JAlton	+ Checke 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 AOI	D):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	30.09.22		79.89		E:445759.5 N:325134.8		7	of	13
	OI 0 T4			!		1		1			

		Sample	s & Testing	1	Mecha	anical	Log	% -r ioi	<u></u>		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	Mecha SCR (%)	RQE (%)	lf (mm	Backfill & Instrumentation	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	(6.00)	
28.00-29.50				100	82	82	NI NI			27.87-27.93m: Grey siltstone 28.00-28.10m: NI. 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.	-	
29.07-29.30	51	С					830			29.11-29.42m: Grey siltstone 29.35-29.36m: 6° planar rough clean.	-	
29.50-31.00		С		100	84	75	NI ZI			29.50-30.34m: With laminae of very weak to weak grey siltstone.	- - - -	
-				100	04	75	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	
-										·	-	

Date Time Borehole Casing Depth Dept	
All dimensions in metres Scale: 1:	25
Method Inspection pit + Used: Cable Percussion + Used: Comacchio GEO 205 By: Heath + By: JAlton By: Drilled Mathew By: Heath + By: JAlton By: Heath + By: JAl	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 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:		Borehole	e:		
EMG Phas	se 2				SEGRO			В	H12
Contract Ref:	Start:	26.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	30.09.22		80.23	E:446174.0 N:325010.3		1	of	12

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	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							$\boxtimes \boxtimes$	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	D							$\boxtimes \boxtimes$	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	+ - -

) -) [.				
	ļ	Boring Pro	ogress and	Water O	oservations		Chisel	ling / Slow F	rogress	Conoral	Remarks
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Remarks
	Date	Tillic	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)	1 Desition algored using C	AT and Canny
۱ [26/09/22	17:15	3.90	3.00	200	Dry	16.50	16.70	01:00	1. Position cleared using C. 2. Hand dug inspection pit	
	27/09/22	08:26	4.00	3.00	200	Dry				3. Borehole drilled using 20	
	27/09/22	17:33	16.50	16.50	200	14.00				4. Borehole installed with a	50mm standpipe.
	28/09/22	08:14	16.50	16.50	200	14.10				5. SPT hammer AR3104-2	$022 (E_r = 64.00\%)$ used.
_	28/09/22	10:54	16.80	16.50	50 200 -						
	29/09/22	15:30	16.80	16.50	200	15.50					
	29/09/22	17:00	23.30	16.50	146	20.70					
	30/09/22 08:30 23.30 16.50 146 6.8									All dimensions in metres	Scale: 1:25
:	Method Inspection pit + Plant Dando 30						00 + Drilled Jonny Hutt +			Logged RSenior +	Checked
;	Used:		ercussion -	• Use	d: Coma	cchio Geo	602	By: Sa	m Carter	By: RStan	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 - 10:36 | TC9 |

BOREHOLE LOG

Contract:				Client:				Borehol	e:		
EMG Pha	se 2					SEC	GRO			В	H12
Contract Ref:	Start:	26.09.22	Groun	d Level (m	AOD):	National	Grid Co-ordinate:	Sheet:			
765514	End:	30.09.22		80.23	3	E:44	16174.0 N: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										-	

lhe		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slo	w P	rogress		Caparal	Domor	ko	
astleford:	Date	Time	Borehole		Borehole Diameter	Water	From	То		Duration (hh:mm)		General	Remai	KS	
ast			Depth	Depth	(mm)	Depth				(1111.11111)					
s Ltd, Branch Office - Ca	30/09/22	13:30	30.80	None	146	-									
Soi											All dimens	sions in metres	Scale:	1:25	
Structura	Method Used:	Cable P	ction pit +	Plar Use		ando 3000 acchio Geo		Drilled By:		ny Hutt + n Carter	Logged By:	RSenior + 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:		Client:			Boreho	le:		
EMG Phas	se 2		SE	:GRO			Bŀ	1 12
Contract Ref:	Start: 26.09.22	Ground Level (m	AOD): Nation	al Grid Co-ordinate:	Sheet:			
765514	End: 30.09.22	80.23	E:4	46174.0 N:325010.3		3	of	12

		Sample	s & Testing	ľ	Mecha	anical	Log	s <u>s</u>	∞ . :	5 5		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfil Instru	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)	-	
-											Stiff fissured dark brown slightly sandy	10.20	• • • • • • • • • • • • • • • • • • •
10.30	33	D	150 blows								gravelly CLAY. Sand is fine. Gravel is subangular to subrounded fine of mixed lithogolies including sandstone, mudstone	- -	
10.50-10.95	34	О I _(UT100)	89% recovery								and siltstone.	- _ (1.20) - - -	
-												11.40	
11.70	35	D									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.	- - - -	x
12.00-12.37		SPT	5,7/7,20,23 for 70mm									(1.60)	\$- X- X
- 12.00-12.30 - 12.00-12.30	37 38	DSPT B										- - - -	
13.00-13.50	39	В									Firm fissured sandy SILT.	13.00	* · · · · · · · · · · · · · · · · · · ·

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	General	Domor	140	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
3													
5													
2										All dimensions in metres	Scale:	1:25	
2000	Method Used:	Cable Pe	tion pit +	Plan Used		ando 3000 acchio Geo			nny Hutt + am Carter	Logged RSenior + By: RStan	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 - 10:36 | TC9 |



BOREHOLE LOG

Contract:			(Client:		Borel	nole:		
EMG Pha	se 2				SEGRO			В	3H12
Contract Ref:	Start: 20	6.09.22	Ground	Level (m AOD):	National Grid Co-ordinate:	Shee	t:		
765514	End: 3 0	0.09.22		80.23	E:446174.0 N:325010	.3	4	of	f 12

			Liiu.	30.0.								• • •
Depth		Sample	s & Testing		Mecha	anical	Log	ns tails fill &	ter	D : 11	Depth	Material
(m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	lf (mm)	Flush Returns & Details Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
13.50-13.8	4	SPT	7,9/16,23,11 for 40mm							Firm fissured sandy SILT. (stratum copied from 13.00m from previous	-	× ·× ·
13.50-13.8		DSPT	101 40111111							sheet)	-	× ×
13.50-13.9	42	В							1			× ^ × ×
. -									1		-	× · × × × ×
-									1		·	· ×· × × × ×
-]		(2.50)	× × × ×
									1		-	× ×
									1			× ^·× ·
14.70	43	D							1		-	* × . × ×
14.70]		t	× · × · ×
15.00-15.4	_	SPT	N=41						1		-	× · × × × × ×
15.00-15.4 15.00-15.4 15.00-15.4	45	DSPT	11-41					[1		-	* * * * * *
15.00-15.4	3 40	В							1		-	* × × ×
-]		15.50	× · × · ×
15.50-16.0	47	В							1	Greyish brown sandy silty subangular to subrounded fine to coarse GRAVEL of	-	⊙ × ∴ ≫ ⊘ ⊗
-									1	mixed lithologies including sandstone,	(0.60)	Ø Ø Ø × ° `
]	siltstone, flint. Sand is fine to coarse. Cobbles of flint noted.	(0.00)	\$ 0.0
-									1		16.10	Ŭ . Ø . €
									1	Very stiff reddish brown sandy gravelly	10.10	<u>• • • • • • • • • • • • • • • • • • • </u>
16.30	48	D							1	CLAY. Sand is fine. Gravel is angular to subangular fine of mudstone lithorelics.	- (0.00)	
10.30	40]	With laminae of grey siltstone. (MERCIA MUDSTONE GROUP)	(0.62)	
16.50-17.3 (0:03))				A					,		<u> </u>
16.50-16.7	2	SPT	7,9/50 for 70mm						1	AZCL	16.72	→ → → AZCL
16.50-16.7		DSPT	101 70111111	57	30	0		Air+Mist (Brown)]	(MERCIA MUDSTONE GROUP)	- 16.84 -	,
16.50-16.8 16.70-16.8		B SPT	25/50						1	Very weak thinly to thickly bedded reddish brown MUDSTONE. GRADE II.	F	
16.70-16.8		DSPT	for 75mm						1	Bedding fractures: Very closely to closely spaced, 0° to 5°, planar, undulating,	<u> </u>	
17.11-17.2 17.30-18.8		С		X	X	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.	[(1.03)	
-								Mist Wn)	1	17.00-17.18m: 85°-90° undulating	-	
· -				97	53	37		Air+Mist (Brown)	1	rough lightly black stained discontinuity 17.20-17.25m: 70° undulating rough	-	
									1	clean discontinuity. Location 1. 17.33-17.43m: 2 no 70° and 50°	17.93	
17.91-18.0	1 55	С							1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		XXXX

Γ		Boring Pro	ogress and	Water C	bservations		Chisel	ing / Slow F	rogress	General	Domor	ko	
	Date	Time	Borehole		Diameter	Water	From	То	Duration (hh:mm)	General	Remai	KS	
<u> </u>			Depth	Depth	(mm)	Depth			,				
										All dimensions in metres	Scale:	1:25	
) [/lethod /sed:		tion pit +	Pla + Us	_	ando 3000 acchio Geo		Drilled Jon Bv: Sa	ny Hutt + m Carter	Logged RSenior + Bv: RStan	Checked Bv:		ags

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BOREHOLE LOG

Contract:			Client:		Borehole	ə:		
EMG Pha	ase 2			SEGRO			ВІ	H12
Contract Ref:	Start: 26.09.	22 Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 30.09.	22	80.23	E:446174.0 N:325010.3		5	of	12

		Sample	s & Testing	9	ľ	Mech	anical	Log		Si Si Si	tio r	ē			Depth	Materia
Depth (m)	No	Туре	Result	ts	TCR (%)		RQD (%)	Log If (mm)	Flush	& Deta	Backfill & Instrumentation	Water		Description of Strata	(Thick ness)	Legend
18.80-20.30 (0:05) 19.15-19.30	56	С			97	53	37		Air+Mist	(Brown)			grey SILT Bedding 10°, undu stained. (MERCIA (stratum c sheet) 18.6 clean rou 18.6 brown mu	strong thinly bedded light greenish STONE. GRADE I. fractures: Closely spaced, 0° to alating, rough, clean, locally black MUDSTONE GROUP) copied from 17.93m from previous 08-18.18m: 40° undulating rough glace clean discontinuity. I-18.80m: Extremely weak reddish distone. 10-19.15m: Very weak very thinly eddish 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)			brown MU Bedding spaced, smooth a stained bl (MERCIA	MUDSTONE GROUP)	-	× × × × × × × × × × × × × × × × × × ×
20.30-21.80 (0:04) 20.50-20.77	57	С			X	X	 	_		*			siltstone 19.8 rough ligh 20. rough cle	19.75-19.85m: Weak light grey 30-19.98m: 80° to 90° undulating thy black stained discontinuity. 17-20.30m: 85° to 90° undulating an discontinuity. 30-20.70m: occasional medium to avel size siltstone inclusions.	(1.76)	
-					98	44	37		Air+Mist	(Brown)			discontinu 21. greenish 21. greenish Stiff very	5-21.20m: 80° undulating smooth uity with <1mm of silt on surfaces. 02-21.23m: extremely weak light grey siltstone. 07-21.23m: extremely weak light grey siltstone. thinly to thickly bedded reddish silty. CLAY with accessional	- 21.23	
21.80-23.30 (0:05)					97	90	52		Air+Mist	(Brown)			subangulamudstone (MERCIA greenish Extremely light grey Bedding undulating locally sta	silty CLAY with occasional ar fine to medium gravel size lithorelics. MUDSTONE GROUP) 21.76-21.80m: very weak light grey siltstone. Weak to very weak thinly bedded SILTSTONE. GRADE II. fractures: Closely spaced, g and stepped, rough, clean, ined orangish brown.	21.80 (0.36)	O X O O O O O O O O
														NUDSTÖNE GROUP) BA BA REXT SHEET	-	
	ring F	Bore		ing	ervati Boreh Diame	ole	Wate			hisell	Ť	Slow	Progress Duration (hh:mm)	General Rem	arks	
		Dep	oth Dep	oth	(mn	1)	Dept						(All dimensions in metres Scale:	1:2	
	able	ection p	sion +	Plant Used:	С		ndo 30 cchio		602		Drilled By:		nny Hutt + am Carter	Logged RSenior + By: RStan By:		AG

2		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domorle	′0	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	.5	
<u>,</u>				•	,								
ī													
,										All dimensions in metres	Scale:	1:25	
) I	Method Used:	Cable Pe	ction pit + ercussion -	Plan Used		ando 3000 acchio Geo	I		ny Hutt + Carter		Checked By:		AGS

BOREHOLE LOG

Contract:				С	lient:				Boreho	ole:			
	EMG Pha	se 2						SEGRO			В	H 1	2
Contract Ref:		Start:	26.09.22	Ground L	evel	(m AOE)):	National Grid Co-ordinate:	Sheet:				
7	65514	End:	30.09.22		80.2	23		E:446174.0 N:325010.3		6	of	1	2
	Samples 9 Test	tina	Mooho	nical Log		(0 oX	_				Τ.	_	

			Liiu.										<u> </u>
		Sample	s & Testing	1	Mecha	anical	Log	σ :	<u> </u>	±		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Return	Backfill & Instrumentation	Water	Description of Strata	(Thick ness)	Graphic Legend
- 23.05-23.30		С		97	90	52		Air+Mist (Brown)			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)	-	
23.30-24.80		С		100	81	55		Air+Mist (Brown)			(stratum copied from 22.16m from previous sheet) 22.74-22.77m: 20° undulating rough clean discontinuity.	-	
24.80-26.30 (0:04) -24.95-25.12		С		<u> </u>	*	*	_	X			24.22-24.24m: 20° undulating rough clean discontinuity 24.27-24.32m: very weak light 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	(4.64)	
26.30-27.80				100	78	70	_	St Air+Mist (Brown)			siltstone. 25.90-26.00m: 90° undulating rough clean discontinuity.	-	
- 26.55-26.78 - - -	s 61	С		99	73	61		Air+Mist (Brown)			Description on next sheet	26.80	X X X X X X X X X X X X X X X X X X X

_													
Ď		Boring Pro	ogress and	Water (Observations	3	Chisel	ling / Slow F	Progress	Conoral	Domor	ادم	
	Date	Time	Borehole	Casin	Borehole Diameter	Water	From	То	Duration	General	Reman	KS	
asile	Date	11110	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)				
5													
5													
<u> </u>													
ģ													
212													
ŏ ≅										All dimensions in metres	Scale:	1:25	
į.	Method						+		ny Hutt +	Logged RSenior +	Checked		
3	l Used:	Cable Po	ercussion :	+ U:	ed: Com	acchio Geo	602	Bv: Sa	m Carter	Bv: RStan	Bv:		MAGE

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BOREHOLE LOG

Contract:							Cli	ent:				Boreho	ole:	
		EMG	Phase 2								SEGRO			BH12
Contract Re	f:		Start:	26.09	9.22	Grou	ınd Le	evel (m	AOD):		National Grid Co-ordinate:	Sheet:		
7	765	514	End:	30.09	9.22		8	30.23	3		E:446174.0 N:325010.3		7	of 12
		Samples &	& Testing	1	Mecha	anical	Log	S	∞ - ioi	<u>~</u>			Depth	Materia
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Return	Backfill & Instru-	Water	Description of Strata		(Thick ness)	Graphic Legend
27.80-29.30 (0:04) - 28.78-29.00		С		99	73	61		Air+Mist Air+Mist (Brown)			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 prosheet) 27.03-27.04m: firm reddish brouglay. Very weak thinly to medium bedded to brown silty MUDSTONE. GRADE II. Bedding fractures: Closely to not spaced, 0° to 10°, undulating, rough. In the second of the spaced of the spaced, 0° to 10°, undulating, rough. In the second of the second	closely h, with revious wn silty reddish recean, faces. h grey reenish rough lear 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))			+	*	X		X			29.16-29.18m: moderately wear greenish grey siltstone. Extremely weak to very weak the medium bedded reddish brown	inly to	29.30	
- 30.33-30.50 -	0 63	С		97	67	60		Air+Mist (Brown)			MUDSTONE. GRADE II. Bedding fractures: Closely to n spaced, 0° to 15°, undulating, rough locally with <1mm clay on surfaces. (MERCIA MUDSTONE GROUP) 29.30-29.35m: Drilling disturbe soft gravelly clay 29.37-29.42m: 30° undulating clean locally black stained discontinu 29.45-29.50m: 25° undulating clean locally light stained orangish discontinuity 29.45-29.80m: Occasional medium gravel size siltstone inclusion 30.20m030.23m: 20° undulating clean lightly orange stained discontinuity 30.20m030.23m: 20° undulating clean gravel size siltstone inclusion 30.20m030.23m: 20° undulating clean lightly orange stained discontinuity 30.20m030.23m: 20° undulating clean gravel size siltstone inclusion 30.20m030.23m: 20° undulating clean locally with <1mm clay on surfaces. Borehole terminated at 30.80m depth	clean, d. NI / rough ity. rough brown fine to ns. lulating ntinuity	- - - - - - - - - - - - - - - - - - -	

	Date				servations		Criisei	ing / Slow F	rogress	General	Domor	40	
, –	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	NS	
2													
2													
)										All dimensions in metres	Scale:	1:25	
	Method Inspection pit + Cable Percussion +					ando 3000 icchio Geo			ny Hutt + m Carter	Logged RSenior + 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, WF10.1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:36 | TC9 |

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STRUCTURAL SOILS

BOREHOLE LOG

Contract:				Client:		Borehole	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		1	of	14

Į		05	717	Ena:	23.0	9.22		0	0.03		E.440479.7 N.323113.2	ı	or 14
			Sample	s & Testing	1	Mecha	nical	Log	8 , ₅			Depth	Material
	Depth (m)	No		Results		SCR (%)	RQD (%)		Instru mentati	Water	Description of Strata	(Thick ness)	Graphic Legend
	0.10	1 2	D B	4 7.4 1.4 1/				[2 2 2			TOPSOIL	0.30	70.70.7 7.77.7 3.76.37
	0.50 0.50 0.50 0.50-0.70	101 102 3 4	ES D B	1xT+1xJ+1xV 1xT+1xJ+1xV				4			Firm orangish brown very gravelly sandy SILT. Sand is fine to coarse, predominantly coarse. Gravel is subangular and subrounded fine to coarse of mixed lithologies. Occasional roots and pockets of organic matter (<5mm).	- - - - - - -	*
(C)	1.20	5	D								Firm to stiff reddish brown slightly gravelly sandy	1.20	*
Lindii.	1.20-1.65 1.20-1.65 1.20-1.65	7 8	SPT DSPT B	N=20							SILT. Sand is fine to coarse. Ğravel is subangular and subrounded fine to coarse of mixed lithologies.	(0.50)	× ×
www.solis.co.uk,	•										Stiff reddish brown mottled grey slightly gravelly	1.70	× × × × × × × × × × × × × × × × × × ×
-002239, Web. WWW.sd	2.00-2.45 2.00-2.45 2.00-2.45	9 11 12	D SPT DSPT B	N=7							sandy CLAY. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of mixed lithologies.	- - - -	
101: 01311-002200, 1 00: 0131	2.70 - - 3.00-3.45	13	D UT _(UT100)	62 blows								- - (1.90) - - -	
discille, with the life.	3.45-3.55	15	D I (UT100)	94% recovery								3.60	
ower y cassinger, west	3.70	16	D								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.	-	* · · · · · · · · · · · · · · · · · · ·
icalica, i carca y calcos, c	4.00-4.45 4.00-4.45 4.00-4.45	18 19	SPT DSPT B	N=20								- - -	× · · × · × · × · × · × · × · × · × · ×

The		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	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	
1	20/09/22	16:08	9.00	7.50	200	8.00	8.70	9.00	00:30	 Position cleared using C Hand dug inspection pit 		
Office	23/09/22		28.50	None	150	-				3. Groundwater struck at 9		
h O	23/09/22		30.00	None	150	-				8.00m depth after 20 mi	nutes.	
Branch										4. Borehole drilled using 20 5. SPT hammer AR3104-2	00mm tools and casing.	
										J. OF I Hallillei AINJ 104-2	$.022 (L_r - 04.0070)$ used.	
s Ľťd,												
Structural Soils										All dimensions in metres	Scale: 1:25	
oting	Method	Inspec	tion pit +	Plan	t Dando	3000 Mar	k 2 +	Drilled Jor	ny Hutt +	Logged DNeylon +	Checked	n
Stru	Used:	Cable Pe	ercussion ·	+ Use	d: Coma	cchio GEC	205	By: LE	Bramford	By: RStan	By: AG	S

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 |

BOREHOLE LOG

Contract:				Client:			Borehol	e:		
EMG Ph	ase 2					SEGRO			В	H13
Contract Ref:	Start:	20.09.22	Groun	d Level (m A	OD):	National Grid Co-ordinate:	Sheet:			
765514	End:	23.09.22		88.03		E:446479.7 N:325113.2		2	of	14
					_				_	

	-	000	• • •	Liid.					•				
	Б		Sample	s & Testing		Mechar	nical	Log ≝	igi a	<u>ה</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR F (%)	RQD (%)	Log ⊗ ∏ If Back (mm)	mentatic	Wat	Description of Strata	(Thick ness)	Legend
5 5	.90 .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)		* * * * * * * * * * * * * * * * * * *
}	.45-5.55	22	D									(3.60)	*° × × × × × × × × × × × × × × × × × × ×
}	.70	23	D									-	× × × × × × × × × × × × × × × × × × ×
6	.00-6.45 .00-6.45 .00-6.45	25 26	SPT DSPT B	N=29								- - - -	× × × × × × × × × × × × × × × × × × ×
7	.30 .50-7.95 .50-7.95 .50-7.95	27	D SPT DSPT B	6,6/9,12,15,14 for 70mm					7	1	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. (MERCIA MUDSTONE GROUP)	7.20	*
8	.70	31	D							, -		- - - 9.00	**************************************

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domor	l/0	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	K5	
3													
5													
í													
5										All dimensions in metres	Scale:	1:25	
	Method Used:	Cable Po	ction pit + ercussion -	Plan Used		3000 Mar cchio GEC			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

FMO Disease 0	
EMG 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:325	5113.2 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.	-	

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow P	rogress	Conoral	Domorl	10	
asinciola	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	15	
- 00													
, נקי													
5										All dimensions in metres	Scale:	1:25	
01000	Method Used:	Cable Pe	tion pit + ercussion -	Plan Used		3000 Mar cchio GEC			ny Hutt + Framford	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:		Borehole	∌:		
EMG P	hase 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		4	of	14

			Samples	& Testing	N	Mecha	anical	Log	∞ ,	_		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				A	A	A				13.45-13.48m: extremely weak greenish grey	13.55	
1 1 1 1 1	- - - 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)	
c. 11/12/22 - 10:37 TC9	- - -				90	50	0				Extremely weak reddish brown MUDSTONE. 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	
uk, Email: ask	- - - 15.00-16.50				X	X	<u> </u>				Extremely weak reddish brown MUDSTONE. Occasional fine to medium gravel size pockets of greenish grey siltstone. GRADE II. Fractures: Closely spaced, randomly orientated. \(MERCIA MUDSTONE GROUP\)	- (0.55) - - 15.10	
ils.co.	-										Reddish brown very clayey sandy angular to	(0.30)	0.0.0
www.so	15.30	40	D								subangular fine to coarse GRAVEL of extremely weak mudstone lithorelics. GRADE III.	15.40	
552299, Web:	- -				90	50					\((MERCIA MUDSTONE GROUP)\) Very stiff slightly sandy gravelly CLAY. Sand is fine to coarse mudstone derived. Gravel is angular to subangular fine to coarse mudstone lithorelics.	15.70	×o, × o
Fax: 01977-	- -										\((MERCIA MUDSTONE GROUP) \text{Stiff greenish grey slightly gravelly thinly laminated SILT.} \((MERCIA MUDSTONE GROUP)	15.85 15.95	× × × × × × × × × × × × × × × × × × ×
552255,	-										Extremely weak greenish grey SILTSTONE. (MERCIA MUDSTONE GROUP)	- (0.55)	
01977-	- -										Extremely weak reddish brown MUDSTONE. GRADE II.	 - -	
J. Tel:	_ 16.50-18.00				X	X	*				Fractures: Closely spaced, randomly orientated, with black specks on surfaces. (MERCIA MUDSTONE GROUP)	16.50	
WF10 11	-										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 -	
Vest Yo	-										Extremely weak reddish brown MUDSTONE.	- (0.35)	
ford, V	17.20-17.30	41	С		93	25	0				GRADE II. (MERCIA MUDSTONE GROUP)	17.30	
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	-										Extremely weak reddish brown MUDSTONE thickly interlaminated with greenish grey fine grained SANDSTONE and SILTSTONE. (MERCIA MUDSTONE GROUP) Description on next sheet	- - 17.55 - -	
Potte	-										Description on next sneet	-	
eries,	-											-	

	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	KS	
				, ,								
									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 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 |

Rotary Cored



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
0 1 0 7		_		- 1		$\overline{}$	

			Samples	s & Testing	N	Лесhа	anica	Log	∞ ' ë	₩.		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		•	•						22.50	

2		Boring Progress and Water Observations						ng / Slow F	rogress	General Remarks			
	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 Inspection pit + Plant Dando 300 Used: Cable Percussion + Used: Comacchie							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

					:			
EMG Phase 2			SEGRO			Bł	H13	
Contract Ref: Start: 20.09.	22 Grour	nd 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	& Testing		Mech	anical		∞ 'ë			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	45	С		A	A	A				Weak greenish grey fine to medium grained SANDSTONE with fine to medium and size vugs. (MERCIA MUDSTONE GROUP)	- - 22.75	
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	-				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.	- (1.60)	
k, Email: ask@soils.c	- - - - 24.00-25.50				X	X	X				23.70-23.80m: Extremely weak greenish grey thinly laminated siltstone.	- - -	
/.soils.co.ul												24.35	
2299, Web: www											Weak greenish grey fine to medium gained SANDSTONE with fine to medium sand size vugs. (MERCIA MUDSTONE GROUP)	(0.45)	
977-552255, Fax: 01977-55	. 24.82-25.12 -	46	С		90	47	29				Extremely weak reddish brown MUDSTONE thinly interbedded with greenish grey SILTSTONE. 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)	
J. Tel: 019	25.50-27.00				X	X	+				25.45m: Thinly interbedded. Weak to medium strong greenish grey fine to	25.50	
Yorkshire, WF10 1N	-										medium grained SANDSTONE. (MERCIA MUDSTONE GROUP) 25.65-25.80m: Interspersed with reddish brown siltstone 25.90m: Abundant fine to medium sand size vugs,	26.00	
ry Street, Castleford, West	26.50-26.72	47	С		93	29	23				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.	- (1.45)	
Potteries, Pottery Street,	-				V							-	

]		Boring Progress and Water Observations						ing / Slow F	rogress	General Remarks			
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Telliali	N 5	
3													
:													
										All dimensions in metres	Scale:	1:25	
	Method Inspection pit + Plant Dando 300 Used: Cable Percussion + Used: Comacchi							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:		Borehol	e:		
EMG Pha	se 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		7	of	14
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			Samples	s & Testing	1	Mech	anical	Log	∞ ' ië	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instrumentation	Water	Description of Strata	(Thick ness)	Graphic Legend
-10:37 TC9	27.00-28.50	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	* * * * * * * * * * * * * * * * * * *
ll: 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)	
99, Web: www.soils.co.uk, Emai	28.50-30.00				*	X		-			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.	-	
1977-552255, Fax: 01977-5522	29.20-29.50	49	С		100	6	4					- (1.55)	
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					↓	\					Borehole terminated at 30.00m depth.	30.00	
tteries, Po												_	

<u> </u>		Boring Progress and Water Observations					Chiselli	ng / Slow F	rogress	General Remarks		
neioia	Date	Time	Borehole		Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks	
g			Depth	Depth	(mm)	Depth			,			
Ņ												
5												
2												
פ												
ĽĽ												
200										All dimensions in metres	Scale: 1:25	
ō.							<u> </u>			All difficusions in friedes		
חכונוו	Method		tion pit +	Plan		3000 Mar			ny Hutt +	Logged DNeylon +	Checked	1010

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

Used: Comacchio GEO 205 By: **L Bramford** By: **R**Stan

By:

AGS

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

L	-	000	• • •	Liiu.	27.0								-	<u> </u>
ſ			Sample	s & Testing	1	Mecha	nical	Log	s <u>s</u>	∞ . 5	_		Depth	Material
	Depth	NI-	T	Desults	TCR	SCR	RQD	If	Flush Returns & Details	ockfill nstru entati	Water	Description of Strata	(Thick	Graphic
	(m)	No	Туре	Results	(%)	(%)	(%)	(mm)	유용교	<u>8 – E</u>			ness)	Legend
												TOPSOIL		7. V. V. V.
	0.10	1	D										(0.40)	1/2 - 1/2/2 - 1/2/2
	0.10-0.30	2 101	B ES	1xT+1xJ+1xV										· <u>/ 1/</u> · <u>/ 1/</u> · . /
_	0.20	101	LO	IXITIAUTIAV									0.40	12. 3.12. 3.17
2												Stiff reddish brown slightly gravelly sandy		• • •
2.	0.50	102	ES	1xT+1xJ+1xV								CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of		<u> </u>
=												mixed lithologies including quartzite,		<u>•••••</u>
777	0.70	3	D									metamorphic rock, sandstone.		
=	0.70-0.90	4	В											
<u>-</u>	_												(1.30)	
0.00	1.00	103	ES	1xT+1xJ+1xV									(1.30)	
SOIIS									1					
ž Š	1.20	5	D	450										
гах: 01977-552299, web. www.soiis.co.uk, Еттап: ask@soiis.co.uk. 11712/22 - 10:37 1 С9	1.20-1.50	6	UT _(UT100)	150 blows 83% recovery										<u> </u>
E I				00 % recovery										
. K	1.50-1.63	7	D							:: 目:: 3				<u></u>
8										::::::::::::::::::::::::::::::::::::::			1.70	
SOIIS										::::::::::::::::::::::::::::::::::::::		Firm reddish brown sandy SILT. Sand is		× × ×
×	1.80	8	D									fine to coarse, predominantely coarse.	_	× × × ×
> 	_												_	* . · · · . ·
Š.	2.00-2.45 2.00-2.45	40	SPT DSPT	N=12									_	× × × ×
3677	2.00-2.45	10 11	В							::::::::::::::::::::::::::::::::::::::			(1.10)	(× ·
00-		• •	_							:: 目:: 3			(1.10)	Û×Û×
8													_	× , ×
ax:													-	· × · ×
													_	*
2770														× ·× ·
?	•											Stiff roddish brown thinly and thinkly	2.80	* ·× · ×
WF 10 1NJ. 16I. 01977-552255,	2.90	12	D							:::li:::		Stiff reddish brown thinly and thickly laminated sandy SILT. Sand is fine to	-	× ·× ·
<u>o</u>	_2.90 _3.00 - 3.45		ט UT _(UT100)	150 blows						:: :: : : : : : : : : : : : : : : :		coarse.	-	× · ×
<u> </u>	0.00-0.40	'3	UT100)	89% recovery						∷H:S			-	× × × ×
-	3.00-3.50	15	В										-	× × × *
¥.													-	× · × ×
orksnire,										· 目:			-	· × · × × ×
OTKS	3.45-3.55	14	D							:: ::::::::::::::::::::::::::::::::::			(1.50)	. ×. ×
~ ∣	•									::H::			-	* × × *
š.	3.70	16	D										-	* * * * * * * * * * * * * * * * * * *
	0.70	'								··目:`			-	× ·× ·
astik	•												-	× ·× · ×
ا ي	4.00-4.45		SPT	N=31						: 出 :			-	×
Stre.	4.00-4.45	18	DSPT	11.51						· 洲 :			-	
e À	4.00-4.45	19	В							::			4.30	× · · ×
oueries, Pouery Street, Castleford, West												Description on next sheet	4.30	x ,x ,
es.													-	× .× . ×
ן נ		<u> </u>		l .	·	ш		<u> </u>		· ` H • ` •			L	•× •×

) 														
		Boring Pro	ogress and	Water				Chisel	ling / Slow F	rogress		Seneral F	Damar	kc
piciona	Date	Time	Borehole Depth	Casir Dept	''9	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)				
IIS LIU, DIAIIUII UIIUG - 00	21/09/22 26/09/22 26/09/22 27/09/22 27/09/22	1/09/22 17:34 12.76 12.00 200 10.8 6/09/22 10:00 12.50 12.50 200 9.2 6/09/22 16:30 21.90 12.50 146 - 7/09/22 09:00 21.90 12.00 146 9.2					10.80 9.20 - 9.20 -	12.30	12.50	00:30	2. Hand dug i 3. Borehole d then 146m 4. 200 litres d and 12.00r	eared using CA inspection pit to commend the commend of the commend of water added on to aid drilling installed with 50 in the commend of the	o 1.20m. 0mm tools i 12.00m or added betv j.	and casing, nwards. veen 9.00m
5											All dimensio	ns in metres	Scale:	1:25
שרווייים ווכ	Method Inspection pit + Plant Dando 3 Used: Cable Percussion + Used: Comacchio							I		ny Hutt + m Carter	_ 00	JAlton + RSenior	Checked By:	AGS

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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		2	of	11

			Sample	s & Testing	ı	Mecha	anical	Log	s s	∞ ' P	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfil Instru mentat	Water	Description of Strata	(Thick ness)	Graphic Legend
2 - 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)	* · · · · · · · · · · · · · · · · · · ·
ail: ask@soils.co.uk. 11/12/22	5.70	24	D										-	* * * * * * * * * * * * * * * * * * *
9, Web: www.soils.co.uk, Em	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.	6.00	***
552255, Fax: 01977-55229	- - -											Stiff dark brown sandy SILT. Sand is fine to	7.20	* * * * * * * * * * * * * * * * * * *
Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk.	7.30 7.50-7.95 7.50-7.95 7.50-7.95	27 29 30	D SPT DSPT B	N=32								coarse.	- - - - -	× · · · · · · · · · · · · · · · · · · ·
teries, Pottery Street, Castleford, West	8.70	31	D										(2.50)	* * * * * * * * * * * * * * * * * * *

Pot													
The		Boring Pro	ogress and	Water Ob	servations		Chise	lling / Slow	Progress	Canaral	Domorl	' 0	
stleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Reman	(S	
Sastle	Date	Tillio	Depth	Depth	(mm)	Depth		10	(hh:mm)	6. SPT hammer AR3104-2	022 (E. = 64	.00%) ı	used.
ce - C											· (-r · ·	,	
Ē													
sranch													
ğ Ö													
II S													
S S										All dimensions in metres	Scale:	1:25	
rotur	Method		tion pit +	Plan	_,	ando 3000			onny Hutt +	Logged JAlton +	Checked		
Ξ	Used:	Cable P	ercussion :	+ Used	J: Coma	icchio GEC	J 601	∣Bv: s	am Carter	Bv: RSenior	Bv:		MAS

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BOREHOLE LOG

Contract:					Client:				Borehole	э:		
	EMG Pha	se 2					SEC	GRO			В	H14
Contract Re	ef:	Start:	15.09.22	Groun	d Level (m	AOD):	National	Grid Co-ordinate:	Sheet:			
	765514	End:	27.09.22		84.68	}	E:44	46455.2 N:325059.0		3	of	11
											$\overline{}$	

			Sample	s & Testing	N	Mecha	anical	Log	s <u>≅</u>	<u>∞</u> ₁ <u>5</u>	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill & Instru-	Water	Description of Strata	(Thick ness)	
	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	35	D									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 10.50-10.95	37	SPT DSPT B	N=29								Stiff to very stiff reddish brown, mottled light	11.20	*
	11.70	39	D									greenish grey, silty gravelly CLAY. Gravel is angular to subangular fine to coarse lithorelics of mudstone. With occasional pockets of grey siltstone. GRADE IVb. (MERCIA MUDSTONE GROUP)	(1.30)	x x x x x x x x x x x x x x x x x x x
ļ	12.00-12.43		SPT	3,6/10,11,15,14 for 55mm									-	× × - × - ×
	12.00-12.43 12.00-12.45		DSPT B										40.50	X _ X
	12.50-12.90 (0:01) 12.50-12.77		SPT	13,12/24,26	50	10	1		+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	*	NI 30	Air+Mist Air+M (Brown)			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)	12.90	X
.								80	Aji (B			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	tion pit +	Plan Used		ndo 3000 cchio GEC			ny Hutt + m Carter	Logged JAlton + By: RSenior	Checked By:		AGS

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Rotary Cored

One												BOREH	OL	EL	.OG
Contract:								Cli	ent:				Boreho	ole:	
		EMG	Pha	se 2								SEGRO			BH14
Contract Ref	:			Start:	15.09	9.22	Grou	und L	evel (r	m AOD):	1	National Grid Co-ordinate:	Sheet:		
7	'65 !	514		End:	27.09	9.22		8	84.6	8		E:446455.2 N:325059.0		4	of 11
Б. "		Samples	& Test	ing	ľ	Mecha	anical	Log	SE :	ails ru- ≅ rtion	ē			Depth	
Depth (m)	No	Туре	Res	sults	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush	& Details Backfill & Instru- mentation	Water	Description of Strata		(Thick ness)	Graphic Legend
	46	D			93	43	0	NI 30 80	Air+Mist (Brown)			stained discontinuity. Extremely weak to very weak laminated to thinly bedded reddish MUDSTONE. GRADE II. Bedding fractures: Very close to spaced, 0° to 5°, undulating, so locally stained black and orangish brown fracture set 2: Extremely closely tolosely spaced, randomly ories smooth and rough, locally black	brown closely mooth, overy ntated,	14.00	
14.40-15.90 (0:05)					*	*	*		*			orangish brown stained. (MERCIA MUDSTONE GROUP) (stratum copied from 12.90m from pr	evious	14.35 - -	
_ 14.62-14.78 - - -	47	С			97	73	Air+Mist (Brown)					smooth stained k light asional	-		
-									Air+Mist (Brown)			black specks on discontinuity surface Very stiff thickly laminated to very bedded reddish brown CLAY. Frangular to subangular fine to m gravel size lithorelics. GRADE III. (MERCIA MUDSTONE GROUP) 14.10-14.12m: Stiff light greenis silt.	thinly equent nedium th grey	-	
15.90-17.40 (0:06) 						 	*	NI 50 130	X			Extremely weak to very weak laminated to thinly bedded reddish mottled light greenish grey, MUDSTO Bedding fracture: Very closely to spaced, locally extremely closely sundulating, smooth, clean, locally with occasional black staining on surf (MERCIA MUDSTONE GROUP)	brown, ONE. closely paced, rough,	-	
- - - 16.63-16.75 - - -	48	С			97	47	7		Air+Mist (Brown)			14.78-14.85m: Weak silty mudst 15.08-15.42m: 85° to 90° und smooth orangish brown stained and speckled discontinuity 15.29-15.36m: 50° undulating s locally orangish brown stained discorwith rare black specks 15.60-15.62m: Extremely weak greenish grey siltstone.	ulating I black smooth ntinuity	- (4.75) - (
- - 17.40-18.90 - (0:05) -					100	47	27		Air+Mist (Brown)			greenish grey siltstone 15.69-15.70m: Extremely wear greenish grey siltstone 15.75-15.90m: Extremely wear thinly laminated mudstone 15.95-15.97m: Strong ligh siltstone 16.14-16.16m: Strong ligh siltstone 16.27-16.30m: Strong ligh siltstone.	ak and t grey t grey	-	

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	rogress	General	Domork	′ 0	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair		
5 - 50 5													
ם בוצוי בומוני													
5										All dimensions in metres	Scale:	1:25	
) [Method Used:	Cable Pe	tion pit +	Plan Used		ando 3000 cchio GEC			ny Hutt + m Carter	Logged JAlton + By: RSenior	Checked By:		AGS

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Rotary Cored



BOREHOLE LOG

•											_	
Contract:				CI	ient:				Boreho	le:		
	EMG Pha	se 2				S	EGRO				BH	14
Contract Re	f:	Start:	15.09.22	Ground L	evel (m AOD):	Natio	nal Grid Co-or	dinate:	Sheet:			
7	765514	End:	27.09.22		84.68	E:	446455.2	N:325059.0		5	of 1	11
	Samples & Tes	ting	Mecha	nical Log	s iii s	<u> </u>				Depth	Mate	erial
Depth	No Type Bo	oulto.	TCR SCR	RQD If	ush Jetan Deta ackfiil nstru	Vale	Descr	iption of Strata		(Thick		phic

		Sample	s & Testing	1	Mech	anical	Log	s <u>s</u>	∞ 1 io	<u></u>			1	Depth	Mat
Depth (m)	No	Туре	Results	TCR	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfil Instru mentati	Water		Description of Strata		(Thick ness)	Gra Le
- - - - 18.44-18.63 - -	50	С		100	47	27	NI 50 130	Air+Mist (Brown)			recovered 16.4 clean, loc 16 siltstone 16.8 black stai 17 smooth brown sta	6.30-16.39m: Drilling dist I as (soft) gravelly clay. 8-16.58m: 90° undulating s ally lightly stained orange. .59-16.60m: Light greenisl 4-17.06m: 75° undulating s ned discontinuity. 7.05-17.15m: 80°-90° und black stained locally or ined discontinuity.	smooth h grey smooth ulating angish	- - - - -	
_18.90-20.40 _(0:05) - - - -											greenish grecovered size fragn	50-17.65m: 85° to 90° und scontinuity with frequent	turbed, gravel ulating		
19.50-19.80 - - - - -	51	С		100	72	45	NI 80 300	Air+Mist (Brown)			black stai very clos undulating black stai Extremely laminated mottled lig Bedding	65-17.80m: 90° undulating ned discontinuity. 80-19.10m: extremely closely spaced, randomly oriely, smooth and rough, cleaned discontinuities. Weak to very weak to thinly bedded reddish light greenish grey, MUDSTO fracture: Very closely to other thinly bedded to thinly bedded reddish light greenish grey, MUDSTO fracture: Very closely to other thinly bedded to thinly bedded reddish light greenish grey, MUDSTO fracture: Very closely to other thinly bedded to the thinly	sely to ntated, an and thickly brown, DNE. closely	- - - - (1.65) - - -	
20.40-21.90 (0:05) 20.40-20.53	52	С		*	*	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	 X	X			undulating with occa (MERCIA (stratum of sheet)	ocally extremely closely sign smooth, clean, locally sional black staining on surful MUDSTONE GROUP) copied from 14.35m from proportion of the property of the	rough, faces. evious	- - - <u>20.75</u>	x >
20.80-21.05 - - - - -	53	С		100	97	81	NI 120 260	Air+Mist (Brown)			light grey Extremely thinly, lo brown, MUDSTO Bedding to spaced, 0 and lightly (MERCIA	siltstone. weak to very weak very thically medium, bedded romottled light greenish	ickly to eddish grey, nedium , clean	- - - (1.00) - - -	× × × × × × × × × × × × × × × × × × ×
- - 21.90-23.40 -(0:05) - -				100	53	17	NI 60 260	Air+Mist (Brown)			weak thi greenish weak leaded limith free GRADE I Bedding spaced, (frequent be	nly and thickly laminated grey siltstone. ak to weak thinly to m ight greenish grey SILTS quent 2-5mm diameter	nedium TONE vugs.	21.75	× × × × × × × × × × × × × × × × × × ×
		Progress	s and Water Ob	Boreh	ole	Wate	er		Ť		Progress	General F	Rema	arks	
Date -	Time	Dep	_	Diame (mn		Dept		From		ō 	(hh:mm)				
													Scale:	1:25	5
Method Used: C	able	ection p Percuss	sion + Used			ndo 30 chio (601	Drilled By:		nny Hutt + am Carter	Logged JAIton + By: RSenior	Checke By:	ed	į

	Boring Pr	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	
Method Used:		ction pit +	Plar Use		ando 3000 Icchio GEO	I		ny Hutt + m Carter	Logged JAlton + By: RSenior	Checked By:		AGS



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STRUCTURAL SOILS

BOREHOLE LOG

Contract:								CI	ient:				Boreho	ole:	
		EMG	Phase:	2								SEGRO			BH14
Contract Ref	:		Star	t: '	15.09	9.22	Grou	und L	evel (ı	m AOD):		National Grid Co-ordinate:	Sheet:		
7	'65 <u>!</u>	514	Enc	l: <i>1</i>	27.09	9.22			84.6	8		E:446455.2 N:325059.0		6	of 11
Depth (m)	No		& Testing Results		TCR (%)	Mecha SCR (%)	anical RQD (%)	Log If (mm	Flush Returns	& Details Backfill & Instru- mentation	Water	Description of Strata		Depth (Thick ness)	Materi Graph Legen
23.19-23.33 23.40-24.90 (0:06)		С			100	533	17	NI 60 260	Air+Mist			21.25-21.57m: Siltstone is verto thinly bedded with interbeds of vereddish brown mudstone. Extremely weak thickly laminat thinly bedded reddish brown, mot greenish grey, MUDSTONE. GRA Bedding fractures: Very closely undulating, rough, clean, locall stained. (MERCIA MUDSTONE GROUP) 22.40-22.50m: 50° undulating discontinuity with occasional black Medium strong thinly to medium light greenish grey SILTSTONE. Generating the spaced, 0° to 10°, undulating, roug locally with occasional black spaced, 0° to 10°, undulating, roug locally with occasional black spaced.	ed very led light DE II. spaced, y black grough specks. bedded RADE I. medium n, clean,	(0.98)	X
24.00 24.64-24.90	55	D			100	22	13	NI NI 280	Air+Mist	(Imola)		(MERCIA MUDSTONE GROUP) (stratum copied from 21.90m from sheet) Extremely weak to very weak thinly reddish brown MUDSTONE. GRAI Bedding fractures: Closely space 5°, undulating, rough, clean, loc <1mm clay surfaces. (MERCIA MUDSTONE GROUP) 22.55-22.65m: 50° undulatir	bedded DE II. d, 0° to ally with	(1.40)	X
												clean discontinuity 22.74-22.77m: Extremely w greenish grey siltstone 23.21-23.40m: Very weak ve bedded light greenish grey siltstone 23.40-23.49m: 88° to 90° ur rough clean discontinuity. Stiff to very stiff thickly laminated thinly bedded reddish brown silty Frequent angular to subangular medium gravel size lithorelics. GRA (MERCIA MUDSTONE GROUP) 23.93-24.09m: Extremely w greenish grey siltstone 24.32-24.40m: Weak light grey siltstone 24.46-24.50m: Weak light grey siltstone 24.64-24.73m: Very weak to w	eak light ry thinly dulating to very CLAY. fine to DE III. eak light greenish	24.90	

	Boring Pro	ogress and	Water O	bservations		Chiselli	ng / Slow F	rogress	Conoral	Domorl	.	
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 Used:		ction pit +	Pla + Use		ando 3000 cchio GEC			ny Hutt + m Carter	Logged JAlton + By: RSenior	Checked By:		AGS

greenish grey siltstone.

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STRUCTURAL SOILS

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

	_			1							_			
	5 "		Sample	s & Testing	ľ	Mecha	inical	Log	SI SI	≣	ē		Depth	Material
	Depth	No	Typo	Poculto	TCR	SCR	RQD	lf	Flush Returns & Details	Backfill	Water	Description of Strata	(Thick	Graphic
	(m)	INO	Туре	Results	(%)	(%)	(%)	(mm)	트움을	Ш			ness)	Legend
	_											TOPSOIL	_	7,1% 7,1% 7
	0.10	1	D										(0.40)	7.7.7
	0.10 - 0.10 - 0.30	101 2	ES B	1xT+1xJ+1xV						>>>>				<u>\10.10.</u>
_	0.10-0.30	_								>>>>			0.40	17. 3.17. 3.17
Ĕ										>>>>		Stiff reddish brown sandy very gravelly		<u> </u>
38	-									>>>>		CLAY. Sand is fine to coarse. Gravel is		
- 10:	0.60	102	ES	1xT+1xJ+1xV								angular to subrounded fine to coarse of mixed lithologies including sandstone,		
/22 ·	0.70	3	D									silstone and mudstone.	-	
1/12	0.70-0.90	4	В							*****		chotorio aria maastorio.	1	
-	-												-	<u></u>
yn.c	_												-	
ls.c	-												-	· <u>····</u> ·
) Soi	1.20	5	D							////			-	
sk(1.20-1.50	6	UT _(UT100)	150 blows						[22]			-	
ail:	-		(01100)	83% recovery									- (0.00)	
E	1.50-1.60	7	D							(22)			(2.20)	
, K	- 1.50-1.60	'	"										-	
s.co	4.70												-	
soil.	1.70	8	D										-	<u>. • </u>
Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:38 TC9	_												-	
ep: ۱													_	
	2.00-2.45	10	SPT	N=30									_	
2296	2.00-2.45 2.00-2.45	11	DSPT B										Ļ	
-55,	-									///				
1977	_									///			_	
ò ×	_									///				<u>•••••</u>
, Fa	_									///			2.60	
522	2.60-3.00	12	В									Greyish brown sandy silty very angular to	L	ox .⊘ .⊗
-552										///		subangular coarse GRÁVEL of mixed lithologies including sandstone and quartz.	(0.40)	
977												Sand is fine to coarse.		ĕ °.c
.0										///		Carla is line to ocaree.	3.00	Ø: Ø: Ø
J. Te	3.00-3.45		SPT	N=30								Medium dense to dense greyish brown silty		×···×
Ž	3.00-3.45	14	DSPT							177		SAND.	(0.45)	×
F10	- 3.00-3.45	15	В										(0.43)	
Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299,										(22)				×···×
shir													3.45	. · · · X · · · .
York	_											Dense greyish brown slightly gravelly silty fine to coarse SAND. Gravel is fine of	-	[*5 ····×
est	_											mixed lithologies including sandstone and	ļ .	×···×
(ે	3.70	16	D							K///		siltstone.	<u> </u>	
efor			-										t	X · · · · · · · · · · · · · · · · · · ·
astl	-									K///			ŀ	× ·Ø···································
et, C	4.00-4.45		SPT(c)	N=32									F	· × · · ·
Stre	4.00-4.45	18	B B	14.02						K//			ŀ	××
ery (-												}	: X
Pott	-									K//			}	
Potteries, Pottery Street, Castleford, West	_									///			}	×0×
otte								<u> </u>		///			L	····
ı.														

ĭ											
Pe		Boring Pro	ogress and	Water Ob	servations		Chise	ling / Slow F	Progress	Canaral Damarka	
eford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General Remarks	
astle	Duto	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	
s Ltc	28/09/22	11:00	14.00	13.50	200	12.50				completion.	
Solls	28/09/22	17:00	26.35	13.50	146	24.50				All dimensions in metros Codo: 4.05	\dashv
<u>a</u>	29/09/22					6.40				All dimensions in metres Scale: 1:25	
nctu	Method Inspection pit + Plant Dando 30 Used: Cable Percussion + Used: Comacchio G								ny Hutt +	Logged DNartey + Checked	
Ē	Used:	Caple P	ercussion -	+ ∣Used	ı. Coma	cchio GEC	0 607	By: Sa	m Carter	By: RStan By:	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 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:			Borehol	e:			
EMG Pha	se 2					SEGRO			В	H15	5
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	,
									_		=

Ī			0	- 0 T+:	Τ.	4	:1				_			
	Depth (m)	No		s & Testing Results	TCR	Mecha SCR	RQD	Log If	Flush Returns & Details	Backfill	Water	Description of Strata	Depth (Thick ness)	Material Graphic Legend
K. 11/12/22 - 10:38 109	5.00-5.45 5.00-5.45	19	D SPT(c) B		(%)	(%)	(%)	<u>(mm)</u>	<u> </u>			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)	*
Email: ask@soils.co.uk.	5.70	22	D										6.00	*
X: 01977-552299, Web: www.solls.co.uk, Er	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.	-	*
Yorksnire, WF10 1NJ. 16I: 01977-552255, Fa)	7.30 7.50-7.95 7.50-7.95 - 7.50-7.95	25 27 28	D SPT DSPT B	N=26									- (2.30) 	*
oueries, Pouery Street, Castleford, 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	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

	Boring Pro	ogress and	Water O	oservations		Chisel	ling / Slow F	rogress	Conoral	Domarka
Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
		Depth	Depth	(mm)	Depth			(11111111)	6. SPT hammer AR3104-2	000 (F = 64 00%) used
29/09/22	17:00	30.85	None	146	_				0. SPT Hallillei ARS 104-2	$1022 (E_r = 04.00\%) \text{ used.}$
									All dimensions in metres	Scale: 1:25
Method Used:								ny Hutt + m Carter	Logged DNartey + By: RStan	Checked By:

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

ontract:				Client:			Borehole	e:		
EMG Pha	ase 2				SEGRO				В	H15
ontract 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:32502	29.4		3	of	13

			Sample	s & Testing	N	Mecha			s = s	■	<u>~</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Detai	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
-	9.00-9.32 - 9.00-9.32 - 9.00-9.32	31 32	SPT DSPT B	4,5/7,26,17 for 20mm								Cobbles and boulders of flint.	9.20	× 2. × × × × × × × × × × × × × × × × × ×
1/12/22 - 10:38 1C9	- -											Medium dense orangish brown silty sandy angular to subangular fine to coarse GRAVEL of mixed lithologies including sandstone, siltstone and flint. Sand is fine	9.60	
ail: ask@soils.co.uk. 1	10.30	33	D									to coarse.	- - - -	
Web: www.soils.co.uk, Email: ask@soils.co.uk.	10.50-10.95 10.50-10.95 10.50-10.95		SPT DSPT B	N=23									- (2.10) - -	
01977-552255, Fax: 01977-552299, We	- 11.20-11.70 - -	37	В									11.20-11.70m: Low cobble content of subrounded flint.	- - -	
<u>•</u>	- 11.80 - 12.00-12.45 12.00-12.45 - 12.00-12.45	40	D SPT DSPT B	N=36								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.	(0.75)	**************************************
Castleford, West Yorkshire, WF10 1NJ.	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.	12.45	× × × × × × × × × × × × × × × × × × ×
Jotteries, Pottery Street, Castle	13.30	43	D									Stiff to very stiff reddish brown gravelly 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	ko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	KS	
			•									
									All dimensions in metres	Scale:	1:25	
Method Used:	Inspection pit + Plant Dando 30 Cable Percussion + Used: Comacchio				ndo 3000 cchio GEC			nny Hutt + m 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 |

Rotary Cored

grow												BOREH		ΕL	.OG
Contract:								Cli	ent:				Boreho	ole:	
		EMG	Pha	se 2								SEGRO			BH15
Contract Ref	:				22.0	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		Mecha	anical	Log	<u>" «</u>	Γ=	_			Depth	Material
Depth (m)	No	Туре	Res	sults	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata		(Thick ness)	Graphic Legend
13.50-13.80 - 13.50-13.80 - 13.50-13.80 - 13.80-14.02	45 46	SPT DSPT B SPT DSPT	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 prosheet)	ngular asional	14.00	× · · × · × · × · × · × · × · × · × · ×
- 14.00-14.35 - (0:02) - 14.20-14.30 - 14.30-14.35 - 14.35-15.85	49 50	D C			100	14	0 V	71 71 71 71 71	Air+Mist (Brown)			Extremely weak reddish MUDSTONE. GRADE III. Fractures: Very closely spaced, rar orientated, planar, locally NI, frequently black stained.		- (4.00)	
- (0:05) - - - - -					100	25	13	NI NI 100	Air+Mist (Brown)			(MERCIA 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.	undant es are 0-10°, g, silty	- (1.08) - - - - - - - - - - - - - - - - - - -	
15.29-15.39		С				V	•					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 staining.	h with	- - - -	
- 15.85-17.35 _(0:04)												abundant black staining, with clay infill (<3mm). 15.74-15.85m: NI, fracture randomly orientated with abundant staining on discontinue surface. 15.85-15.98m: 86° undulating abundant black staining.	ey silt es are black	- - - -	
16.59-16.87	52	С			100	91	53	NI 70 540	Air+Mist (Brown)			rough abundant black staining 15.98-15.99m depth; 7° und 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 16.14-16.15m: 6° undulating	rough,	- - - - -	
- 17.35-18.85 - (0:04) - 17.49-17.69		С			100	92	66	15 350 830	Air+Mist (Brown)			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 grough rough	- - (4.90) - - -	

		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	
3													
										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 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.
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BOREHOLE LOG

Contract:								С	lient:				DOILLI	Boreho		
		EMC	3 Pha	se 2									SEGRO			BH15
Contract Re						Grou	ınd L	_evel	(m.	AOD):		National Grid Co-ordinate:	Sheet:			
	765514 End: 29.09.22								81.	49			E:446370.2 N:325029.4		5	of 13
		Sample	s & Tes	ting		Mech	anical	Log		S E	≣	<u>io</u>			Depth	Material
Depth (m)	No	Туре	Res	sults	TCR (%)	SCR (%)	anical RQD (%)	If (mn	ı) Elush	Keturn & Deta	Backfill	Water	Description of Strata		(Thick ness)	Graphic Legend
-											///.		16.40-16.46m: 84° planar abundant black staining.	rough	-	

Depth			3 th 1 County	TOD	COL	DOD	ن . ر	tail a	3ackfill Water		Description of Strata	(Thic	n Ma k Gra
(m)	No	Туре	Results	(%)	(%)	(%)	(mm	Flush Returns & Details	Backfill		Description of Strata	ness	· · ·
									///		6.40-16.46m: 84° planar	rough	
									///	abundant	: black staining. 6-16.50m: NI, recovered as	clavev	
										silty angu	lar fine to medium gravel.	Ciaycy	
							15	Air+Mist (Brown)		16.	50-16.59m: 82° undulating	rough [
				100	92	66	350 830	Fi-		abundant	black staining.		
					H		830	4 B			16.59-16.60m: 5° planar black staining.	rougn	
											2-17.14m: Grey siltstone.		
									///		16-17.18m: NI, recovered	as silty [
18.85-20.35				X	T.	- Y	T.	<u> </u>		sandy gra	avel.		
.(0:06)				[[[ΙĪ	l T			3-17.24m: Grey siltstone. 35-17.43m: 43° undulating	rough	
(0.00)									///		al black staining.	i rougii –	
										17.79	9-18.20m: Weak grey siltsto	one.	
									///		95-17.99m: 12° undulating	rough	
										occasion	al brown staining. .98-17.99m: 4° undulating	rough	
									///		.96-17.99m. 4 undulaling al brown staining.	rougn	
							70	Air+Mist (Brown)		Extremely	weak to weak reddish bro	wn silty	
19.61-19.89	54	С		100	100	96	120	ir∔ Sro	///	MUDSTO	ONE.	·	
10.01 10.00	0.1				H		490	A B		Fractures	: Closely spaced, 0-10°,	planar, -	
									(221		equently black stained. A MUDSTONE GROUP)	ŀ	
										15	08-15.09m: 6° planar roug	gh with 19.9	8 =
-									(221	silty clay	infill (<3mm).(stratum copie		
										15.08m f	rom previous sheet)	. (0.4)	=
										1	8.02-18.05m: 15° planar brown staining.	rough (0.44	"=
				↓	↓	↓	↓	↓		18	07-18.08m: 6° undulating	arough	
20.35-21.85				A	A	A	A	À	(22)		brown staining.	20.4	2
(0:06)										18	.16-18.17m: 5° undulating	rough -	:::
20.51-20.69	55	С							(22)		brown and yellow staining.	-	:::
											0-18.23m: NI. 20-18.66m: Grey mottled :	reddish	
											stone interbedded with muc		:::
										1	8.32-18.38m: 29° planar		:::
_								# (=	(///		al black staining.	ĪL.	
				100	77	77	NI	- Mis			3-19.00m: NI.		, :::
				100	77	77	NI NI	Air+Mist (Brown)		siltstone.	.01-19.26m: Medium stror	ig grey [[(1.48	5) : : :
							lι				19.11-19.13m: 9° planar	rough	:::
										occasion	al brown staining.	· 11	:::
											26-19.97m: Grey mottled	reddish	
										prown siit	stone and mudstone. 9.34-19.41m: 40° planar	rough	:::
									///		black staining.	rough	: : :
											9-19.64m: 27° planar rough	clean.	:::
04.05.00.05				X	Y	- Y	T.	<u> </u>	///		ak to weak reddish brow	n silty 21.9	0 :::
21.85-23.35 (0:05)				[[[ΙĪ	T			JDSTONE. GRADE II.		
22.03-22.26	56	С						+: (///		MUDSTONE GROUP)		
22.03-22.20	50			100			NI	Air+Mist (Brown)			ak to weak reddish brown, i fine and medium ç	mottled - grained _	
				100	97	97	NI NI	÷ B	///	SANDST		- 11	
										siltstone.		9. 5,	
										(MERCIA	MUDSTONE GROUP)	-	
Bor	ring F	rogress	and Water (Observat	ions		\Box	Chisel	ling / Slov	Progress	00000000		
Data	Tim-	Borel	nole Casing	Borel Diam		Wate	er	Ero	То	Duration	General l	kemarks	
Date 1	Γime	Dep	oth Depth	ı (mr		Dept	h	From	10	(hh:mm)			
											All dimensions in metres	Scale: 1:	25
		1											
 Method	Insn	ection p	it + Pi	ant	Dai	ndo 30	+ 000		Drilled I	onny Hutt +	Logged DNartey +	Checked	

	Boring Pr	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	K5	
3												
j j												
5									All dimensions in metres	Scale:	1:25	
Method Used:		ction pit +	Plar Use		ando 3000 Icchio GEO	I		ny Hutt + m Carter	Logged DNartey + Bv: RStan	Checked By:		AGS



BOREHOLE LOG

Contract:			С	Client:		Boreho	ole:		
EMG F	Phase 2				SEGRO			Bŀ	115
Contract Ref:	Start:	22.09.22	Ground	Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	29.09.22		81.49	E:446370.2 N:325029.4		6	of	13
Samples &	Testing	Mecha	nical Loc	η ω _ Ι			D 41-		

	00:	717	Ellu.	29.0	7.22			01.4	, 		E:446370.2 N:325025.4	0	or I
		Samples	s & Testing	ı	Mecha	anical	Log	ω 	<u>≅</u>	÷		Depth	Mater
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush	Backfill	Water	Description of Strata	(Thick ness)	Graph Leger
				100	97	97	NI NI NI NI	Air+Mist (Brown)			21.50-21.90m: NI22.26-22.28m: Reddish brown fine to medium grained sandstone. Very weak to weak reddish brown MUDSTONE. Occasional pockets and laminae of grey siltstone. Rare laminae of reddish brown fine to medium grained sandstone. GRADE II. (MERCIA MUDSTONE GROUP)	-	
23.35-24.85 (0:06)				+	X	*	*	 X			(stratum copied from 21.90m from previous sheet) 23.35-23.40m: 43° undulating rough clean 23.41-23.43m: 9° planar rough brown	- - -	
				95	92	67	60 80	Air+Mist (Brown)			stained 23.48-23.52m: 33° planar rough brown stained 23.53-23.56m: 16° planar rough brown stained.	- - - -	
24.20-24.51	57	С					NI 	Air (B				- - -	
24.85-26.35 0:06)				X	X	X	*	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			24.66-24.78m: With laminae of grey siltstone.	- - - -	
								st			25.20-25.43m: Grey mottled reddish brown siltstone and mudstone.	- - -	
25.55-25.91	58	С		100	100	100	Z	Air+Mist (Brown)			25.60-25.71m: Pockets grey siltstone.	_ _(7.62) _	
											25.98-26.65m: Weak fine grained sandstone.	- - -	
26.35-27.85 0:06) 26.60-26.90		С		100	98	98	NI NI NI NI NI	Air+Mist (Brown)			26.65-27.05m: Grey siltstone.	- - -	
											26.90-26.93m: NI.	-	

Date Ti	ime Borehole Depth	"	Borehole Diameter	Water							
		Depth	(mm)	Depth	From	То	Duration (hh:mm)	General	Cilian		
3											
								All dimensions in metres	Scale:	1:25	
	Inspection pit + Plant Dando 30 Cable Percussion + Used: Comacchio						ny Hutt + m 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:							Cli	ent:				Boreho	ole:	
		EMG P	nase 2								SEGRO			BH15
Contract Ref	:		Start:	22.0	9.22	Grou	ınd Le	evel (m	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 & T	esting		Mech	anical	Log	s g	l e	<u> </u>			Depth	Materia
Depth (m)	No	Type F	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		Air+Mist (Brown)			Very weak to weak reddish MUDSTONE. Occasional pocket laminae of grey siltstone. Rare lam reddish brown fine to medium (sandstone. GRADE II. (MERCIA MUDSTONE GROUP) (stratum copied from 21.90m from planet) 27.34-27.38m: Grey siltstone 27.47-27.75m: Weak grey siltstone 27.75-27.85m: Sandy mudstone 28.08-28.14m: Medium stror	inae of grained revious one	-	
28.43-28.68	60	С		100	100	100	NI N	Air+Mist (Brown)			siltstone 28.14-28.60m: Grey mottled brown siltstone 28.36-28.43m: 35° planar rough stained.	reddish	-	
20.25.20.05				X	l k	<u> </u>		X			28.95-28.97m: Reddish browgrained sandstone.	vn fine	-	
29.35-30.85 (0:04) 29.35-30.85		С			Ī	T					Weak reddish brown fine and r grained SANDSTONE. Occasional p and laminae of grey siltstone an weak reddish brown mudstone.	ockets	29.52	
				100	100	100		Air+Mist (Brown)			(MERCIA MUDSTONE GROUP) 30.03-30.18m: Reddish mudstone.	brown	(1.33)	
						\ 					\30.82-30.85m: Grey siltstone. Borehole terminated at 30.85m depth		30.85	

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	Reman	15	
3													
}										All dimensions in metres	Scale:	1:25	
) I	Method Used:	Inspection pit + Plant Dando 30 Cable Percussion + Used: Comacchio C				ando 3000 cchio GEC	I		ny Hutt + m Carter		Checked By:	0	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 - 10:38 | TC9 |

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
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

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			Sample	s & Testing	l	Mecha	nical	Log ⊴	ig r	ē		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Log If (mm)	Instrumental	Water	Description of Strata	(Thick ness)	Graphic Legend
	0.00-4.50							Ţ			TOPSOIL	-	31 1/2 : 31 1/2 : 3
	0.20	1	D									(0.60)	\(\frac{1}{2}\cdot\)\(\fra
-	0.20-0.40	2	В					n≤	≯ ₩			[(0.60)	//· // // // // // // // // // //
501 60:01 -													71.71.7
5.0	-										Firm reddish brown gravelly sandy SILT. Sand is	0.60	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
	0.70	3	D								fine to coarse. Gravel is subangular to subrounded	(0.30)	× * * × × ×
77/7/	0.70-0.80	4	В								fine to coarse of quartzite and sandstone.	0.90	* _{0×} ·×
- AD-00	1.00-1.20	5	В								Stiff reddish brown slightly gravelly sandy CLAY. Sand is fine to coarse, predominant coarse. Gravel	(0.40)	
3.0	. 1.00 1.20										is subangular to subrounded fine to coarse of metamorphic rocks, sandstone and occasional	(0.40)	
ash@solls.	1.20-1.40	6	UT _(UT100)	150 blows 100% recovery							quartzite.	1.30	
I	1.40-1.50	7	D	100 % 1000 001 y							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)		
2	1.70	8	D								(MENON MODE FOR E GROOT)	-	
www.solis.co.dx,	1.70	0										_	· · · · ·
, v CD. vv	-											_	°
, ,	2.00-2.45 2.00-2.45	10	SPT DSPT	N=32								-	
3255	2.00-2.45	11	В									_	•••••
16	•											-	
av. 0137	-											_	<u> </u>
335533,	-											_	
700-7	2.70	12	D									[-,,	
0.0												(3.20)	••••••
	3.00-3.43		SPT	9,9/9,13,16,12								_	
2	3.00-3.43	14	DSPT	for 55mm				,				-	
	3.00-3.45	15	В									_	
O NOT THE													<u> </u>
	-											_	· · · · · · · ·
,	3.70	16	D									_	
Selicio												-	
ğ,	4.00-4.36		SPT	9,12/16,18,16								-	• • • • • • • • • • • • • • • • • • •
2 000	4.00-4.36	18	DSPT	for 60mm								-	
meries, r oner y orreet, Castrelord, West		10	ו זטען									-	
6	-											4.50	
با		•							1 - ا				

ď													
The		Boring Pro	ogress and	Water Ob	servations		Chise	lling / Slow	Progress	Conorol	Domork	_	
Castleford:	Date	Time	Borehole		Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remark	S	
astl			Depth	Depth	(mm)	Depth			(1111.11111)	1 Desition sleared using C	AT and Cann		
Ltd, Branch Office -	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	1. Position cleared using C 2. Hand dug inspection pit 3. SPT hammer AR3104-2	to 1.20m.	•	sed.
tural Soils										All dimensions in metres	Scale: 1	:25	
tructura	Method Used:		ction pit +	Plan Used		ando 3000 Unknown	+	Drilled By: J	onny Hutt	Logged DNartey + By: DNeylon	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 - 10:38 | TC9 |



BOREHOLE LOG

Contract:			Client:		Borehole) :		
EMG Ph	ase 2			SEGRO			Bŀ	H16
Contract Ref:	Start: 15.09	.22 Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 15.09	.22	73.98	E:446488.6 N:324866.7		2	of	11

Type D C	s & Testing Results	TCR		RQD (%)	od t mm minimum mentation menta	Description of Strata Stiff reddish brown slightly sandy gravelly CLAY. Sand is fine to coarse and mudstone derived. Gravel is angular to subangular fine to coarse mudstone lithorelics with some exhibiting thin laminae. GRADE III. (MERCIA MUDSTONE GROUP)	Depth (Thick ness)	Material Graphic Legend
		1	Î	1		Sand is fine to coarse and mudstone derived. Gravel is angular to subangular fine to coarse mudstone lithorelics with some exhibiting thin laminae. GRADE III.	_(1.05)	
С					°. °		-	- <u>•</u>
		73	13	13		Extremely weak reddish brown thinly laminated MUDSTONE. GRADE II. (MERCIA MUDSTONE GROUP)	5.80	
2 D						Firm reddish brown slightly sandy gravelly CLAY with fine to coarse gravel size pockets of sandy silt. Sand is fine to coarse and mudstone derived. Gravel is angular to subangular fine to coarse mudstone lithorelics. GRADE III. (MERCIA MUDSTONE GROUP)	- -(0.65) - - 6.45	
		*	*	*		Extremely weak reddish brown MUDSTONE with frequent randomly orientated smooth planar clean fractures. GRADE II. (MERCIA MUDSTONE GROUP)	-	
S C		77	17	17		7.10-7.25m: Very closely spaced laminae (<10mm) and medium to coarse gravel size pockets of thinly cross laminated siltstone 7.35-7.45m: Very closely spaced laminae (<10mm) of extremely weak greenish grey thinly cross laminated siltstone, with occasional clay.	-	
		X	*	*			(3.00)	
		77	15	8		8.25-8.30m: Thinly laminated cream siltstone and mudstone 8.40-8.45m: Thinly laminated coloured siltstone and mudstone.	-	
3	С	C	C	C 4 4	C	C	C The state of th	C 7.7.10-7.25m: Very closely spaced laminae (<10mm) and medium to coarse gravel size pockets of thinly cross laminated siltstone. 7.35-7.45m: Very closely spaced laminae (<10mm) of extremely weak greenish grey thinly cross laminated siltstone, with occasional clay. (3.00) 8.25-8.30m: Thinly laminated cream siltstone and mudstone. 8.40-8.45m: Thinly laminated coloured

		Boring Pro	ogress and	Water Ob			Chisel	ling / Slow F	Progress		General I	Domar	kc	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Generali	Remai	NS	
3														
;										All dimens	ions in metres	Scale:	1:25	
) [Method Used:	Cable Po	ction pit + ercussion	Plan Used		ando 3000 Unknown	+	Drilled By: Jo	nny Hutt	Logged By:	DNartey + DNeylon	Checked By:		AGS
) I		Cable Po					T	_	nny Hutt			_		

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	le:		
	EMG Pha	se 2				SEGRO			В	H16
Contract Ref	:	Start:	15.09.22	Ground Level (m	AOD):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	15.09.22	73.98		E:446488.6 N:324866.7		3	of	11
	OI 0 T4			:						

				_		ı						
_	L	Sample	s & Testing	N	Mecha	anical	Log	ૹ ૻૄ૽ ૄ	<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				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 Pr	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)		Generali	Temai	KS .	
									All dimens	ions in metres	Scale:	1:25	
Method Used:	Cable P	ction pit + ercussion	Plan Used		ando 3000 Unknown	+	Drilled By: Jo	nny Hutt	Logged By:	DNartey + DNeylon	Checked By:	20	AGS
	Rota	rv Cored					, ,	,		-,			TAX C

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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:								Cli	ent:								Boreho		_	
		EMC	3 Pha	se 2								SE	EGRO						Bŀ	116
Contract Re	f:			Start:	15.09	9.22	Grou	nd Le	evel (m	AOE)):	Nation	al Grid C	o-ordin	ate:		Sheet:			
	765	514		End:	15.09	9.22		7	73.98	}		E:4	146488	8.6 N:	3248	66.7		4	of	11
Depth (m)	No	s & Test Res				anical RQD (%)	 If	Backfill & Instru- mentation	Water			Desc	ription	of Strat	a		Depth (Thick ness)	Gr	aterial aphic egend	
						T	\Box		*.*H.*.		Eve	omoly	wools r	oddich	brouge	MIIDE	TONE	(4.20)		

	Depth (m)	No	Туре	Results	TCR	SCR	RQE) If	Backfil Instru mentat	Wate	Description of Strata	(Thick	Graphic Legend
	(111)	140	Турс	results	(%)	(%)	(%)	O If (mm)	≘ ℃ال		Extremely weak reddish brown MUDSTONE.	ness) (1.30)	Legend
- 10:38 TC9	- - - - 14.00-15.50				93	29	0				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) - - -	
2 - 10	-											14.20	× × × ×
:o.uk. 11/12/2	- 14.25-14.55 - -	28	С					4 4 4			Extremely weak to very weak greenish grey thinly laminated SILTSTONE with fine to medium gravel size vugs. (MERCIA MUDSTONE GROUP)	(0.40)	X X X X X X X X X X X X X X X X X X X
o.uk, Email: ask@soils.c	- - - - 15.10-15.35	20	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)	-	× × × × × × × × × × × × × × × × × × ×
oils.co	15.10-15.35	29									,	-	××××
WW.SC	-										Very weak to weak greenish grey thickly cross	15.35	× × × ×
. V10_01. 5522 <u>9</u> 9, Web: w	15.50-17.00				X	*	X	_			laminated SANDSTONE. (MERCIA MUDSTONE GROUP) 15.35-15.70m: Rough undulating fracture at approx 85° through the core with black specks and	(0.55)	
il E LOG - A4F 705514_EAS. MIDLAND, AIRFORT, GFJ - 710_01. West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22	- - - -				93	53	42				yellow stain along surfaces	15.90	
0514 EAST MI 10 1NJ. Tel: 01	16.40-16.70 -	30	С					4 4 4			occasional fine gravel size pockets of greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP)	16.75	
Vorkshire, WF	_ - _ 17.00-18.50				 	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		
"	17.30	31	D		80	32	28				subangular fine to coarse of extremely weak mudstone lithorelics. GRADE III. (MERCIA MUDSTONE GROUP)	- (0.95) - -	
ri Priversion: vs_u/ i Log COMPO otteries, Pottery Street, Castleford	- - -							4			Description on next sheet 17.75-17.80m: Weak greenish grey fine grained sandstone.	17.70	× × × × × × × × × × × × × × × ×

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress		General	Domor	·ko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		General	Remai	KS	
		Ворит	Ворит	(11111)	Ворит				_				
									All dimen:	sions in metres	Scale:	1:25	
Method Used:		tion pit +	Plan + Used		ando 3000 Unknown	+	Drilled By: J o	onny Hutt	Logged By:	DNartey + DNevlon	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	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		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)	

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)		Generali	Temai	K5	
<u>'</u>			,		,	•								
,														
2														
										All dimens	ions in metres	Scale:	1:25	
	Method Used:					ando 3000 Unknown	+	Drilled By: Jo	nny Hutt	Logged By:	DNartey + 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 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	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					常制:				× _{o×} × × _o
			 				l j		贮制:			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)	×···×
-									r:H:			-	×···×
-									ŗ:Ħ÷			-	×::::
L							l		₽:H::			-	: : × : : î
									ŀ:ll::			-	×···×
ŀ									恺詌			3.90	* : · · · · ×
t	3.90	14	D						い目:		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
	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	
ō	16/09/22	09:55	6.30	None	200	-					,
nc	21/09/22		6.00	None	N/R	1.60					
B	22/09/22		21.00	None	N/R	1.80					
Ę,											
S											
Š										All dimensions in metres	Scale: 1:25
iti.	Method	Inspec	tion pit +	Plan	t Da	ando 3000	+	Drilled		Logged DNartey +	Checked
ĭ	Used:		ercussion :	+ Use	d:	Unknown		Bv: J	onny Hutt	Bv: RStan	Bv:

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:		Boreho	ole:		
	EMG Pha	se 2				SEGRO			BH	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	Ma	torial

Depth (m) No Type Results TCR SCR ROU If 1				Sample	s & Testing		Necha			& - iö	-		Depth	Material
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		Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick	Graphic
Solution Solution	1/12/22 - 10:39 TC9	5.00-5.45 5.00-5.45	20	SPT DSPT	N=39							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)	- - - - - - -	
AZCL (MERCIA MUDSTONE GROUP) (0.30) AZCL (MERCIA MUDSTONE GROUP) (0.30) AZCL (MERCIA MUDSTONE GROUP) (0.30) AZCL (MERCIA MUDSTONE GROUP) (0.30) AZCL (MERCIA MUDSTONE GROUP) (0.62) AZCL	nail: ask@soils.co.uk. 1	- - 5.50-5.84		DSPT									6.00	
Extremely weak MUDSTONE, recovered as slightly sandy sity gravel. GRADE IV. (MERCIA MUDSTONE GROUP) 6.70-6.77 27 D 80 35 21 6.70-6.77 27 D 80 35 21 Extremely weak thinly laminated MUDSTONE. (0.62) 6.86-6.92m: NI. Extremely weak thinly laminated MUDSTONE. Occasional pockets and laminae of grey siltstone. GRADE III. (MERCIA MUDSTONE GROUP) 7.30 7.33-7.41 26 C 7.50-9.00 7.50-9.00 8.30-8.47 28 C 87 70 62 887 70 62 888 70 62 889 70 62 889 87 70 62 889 87 70 62 889 87 70 62 889 87 70 62	oils.co.uk, En	6.00-6.30	26			A	_	A					(0.30)	AZCL
Cocasional pockets and laminae of grey siltstone. RADE III. (MERCIA MUDSTONE GROUP) 6.97-7.00m: NI. 7.00-7.30m: Thinly interlaminated mudstone and siltstone. Extremely weak MUDSTONE Occasional pockets and laminae of grey siltstone. 6.92 (0.38) (0.38) (7.30 7.30 7.50-9.00 RETURN III. Extremely weak MUDSTONE GROUP) 6.97-7.00m: NI. 7.00-7.30m: Thinly interlaminated mudstone and siltstone. Extremely weak MUDSTONE Occasional pockets and laminae of grey siltstone. Extremely weak MUDSTONE GROUP) 7.50-9.00 Extremely weak MUDSTONE GROUP) 6.92 7.30 7.30 7.30 7.30 7.50-9.00 Extremely weak MUDSTONE Occasional pockets and laminae of grey siltstone. Extremely weak 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.	J - V I U U I . 7-5522 <u>9</u> 9, Web: www.s	- - -				80	35	21				slightly sandy silty gravel. GRADE IV. (MERCIA MUDSTONE GROUP)	-	
A 7.30-9.00 A 7.30-9.00 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) A 7.50-7.70m: AZCL.	ka i Midland AirFORT.GF. Tel: 01977-552255, Fax: 0197		26	С								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	_ (0.38)	
	Version: Vo_0/ Log COMPOSHE LOG - A4P 7033 14_EA ries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. 1	- - - - -	28	С		87	70	62				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.	- - - - - - - - - -	

	Boring Pr	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)		Generali	Temai	KS	
3			-										
,													
									All dimens	ions in metres	Scale:	1:25	
Method Used:					ando 3000 Unknown	+	Drilled By: Jo	nny Hutt	Logged By:	DNartey + RStan	Checked By:	0	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			Bŀ	1 17
Contract Ref:		Start:	15.09.22	Ground	d Level (m AOD):	Nat	tional Grid Co-ordinate:	Sheet:			
7	65514	End:	16.09.22		74.45	E	E:446293.6 N:324881.8		3	of	10
	Samples & Test	ina	Mecha	nical I c	og ∞ . 5				D41-		

		Sample	s & Testing	I	/lecha	anica	l Log	≅ - Ei	<u>~</u>		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQE (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
9.00-10.50				100	77	69				8.95-9.00m: Pocket of silty clay. 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 9.93-10.03m: Recovery as sandy gravel.	- - - - - - - - - - - - - - - - - - -	
10.21-10.41	29	С								, , ,	-	
10.50-12.00				*	*	*				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)			*	*	*				11.95-12.00m: NI. 12.00-12.27m: NI.	-	
12.41-12.61	31	С		100	64	55				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 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	12.81	
·										strong grey SILTSTONE. Occasional calcite bands (<3mm). GRADE III. (MERCIA MUDSTONE GROUP) Description on next sheet		

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	General	Domorl	' 0	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	15	
5 - 5													
2													
í													
5										All dimensions in metres	Scale:	1:25	
	Method Used:						+	Drilled By: J	onny Hutt	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 Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10.1NJ. Tel: 01977-552255, Fax: 01977-552299, i



BOREHOLE LOG

Contract:			Client:		Boreho	le:		
EMG	Phase 2			SEGRO			Bł	1 17
Contract Ref:	Start:	15.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	16.09.22	74.45	E:446293.6 N:324881.8		4	of	10
Samples	& Testina	Mecha	nical Log & E			Б "	T.,	

	000)14	End:	16.09.2		74.45			293.6 N:324881.8	4	of 10
		Samples	& Testing	Me	chanical	Log ∞ <u>,</u> <u>5</u>	<u>_</u>			Depth	Mate
Depth (m)	No	Туре	Results	TCR S	CR RQD	Log (mm) Backfill & lustru- mentation	Water	De	escription of Strata	(Thick ness)	
, ,		Турс	TCSGIG	(%) (9	%) (%) A A	(mm) E		10 04 10	44mm. Think laminated moude		Logo
13.50-15.00		С		100 8	33 71		Extre MUD strong bands (MEF (strat	rey siltstonemely weak STONE in g grey S (<3mm). (RCIA MUDS) was copied: 3.50-13.56	STONE GROUP) from 12.81m from previous si	andy - dium - alcite (2.32) - heet) -	
15.00-16.50					X		siltsto 1 1 	. 14.52-14 one. 4.68-14.71 4.74-14.81 . 14.81-15	.63m: with thin laminae of m: Medium strong siltstone. m: Thinly laminated mudstone 5.10m: Frequent calcite poo m: NI.	e. ckets	
15.60-15.81		С		100 9	91 84		Mediu (MEF brown occas 	um strong g RCIA MUDS 15.13-15. n staining. 15.35-15.36 sional browr 15.43- sionally yello	rey SILTSTONE. STONE GROUP) 22m: 36° undulating rough, 6m: 8° planar rough, clay infill	with (0.70)	× × × × × × × × × × × × × × × × × × ×
16.50-18.00 16.50-16.61		SPT	25/50 for 50mm		X		Weak with SANI grey s (MEF 1 1	reddish b DSTONE. C siltstone. Gl RCIA MUDS 5.83-15.96 6.07-16.20	STONE GROUP) m: 50° planar rough. m: Grey siltstone. m: 53° planar rough.	ained	
17.72-17.89	34	С		52 4			interb Occa GRA	edded with sional lam DE III.	rown slightly sandy MUDST weak fine grained SANDSTO ninae of weak grey silts	ONE.	
Во	ring F		and Water Ob				lling / Slow		General R	emarks	
Date -	Time	Borel Dep	0	Borehole Diamete (mm)	Wate Dept	II From	То	Duration (hh:mm)	Contorain		
				()							
								1	│ All dimensions in metres □ S	cale: 1.2	5
Method	Insn	ection p	it + Plan	t r	Dando 30	000 +	Drilled		<u> </u>	cale: 1:2: Checked	<u>5</u> │

		Boring Pro	ogress and	Water (Observation	;	Chisel	ling / Slow	/ Progress		General I	Domor	·lco	
Sileioid	Date	Time	Borehole Depth	Casing Depth	o Diameter		From	То	Duration (hh:mm)		Jenerai i	Temai	KS	
II SOIIS Ltd, branch Oince - Ca			·	·						All dimensio	ons in metres	Scale:	1:25	
ון חבותו פ	Method Used:		tion pit +		ant c sed:	ando 3000 Unknown	+	Drilled By:	Jonny Hutt	Logged By:	DNartey + RStan	Checked By:		AGS



BOREHOLE LOG

Contract:			Client:		Boreho	ole:		
EN	IG Phase 2			SEGRO			Bŀ	117
Contract Ref:	Start:	15.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	16.09.22	74.45	E:446293.6 N:324881.8		5	of	10
Samr	les & Testina	Mecha	anical Log ⊗ ≲	·	<u>'</u>	D 41-		

Depth (m) No Type Results (%) (%) (%) (m) (%) (min) (Market Results) (%) (%) (min) (Market Results) (Ma			Samples	s & Testing	N	/lech	anical	Log	≈ - Ei	<u></u>			·		Depth	Materia
Week reddish brown slightly sandy MUSITONE interbedded with week fine graned SANDSTONE Cocasional laminate of week grey slistone. (MERCIA MUSITONE CRUP) (Interpretation of the sands of t	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfi Instru mentar	Water		D	escription of Strata			Graph Leger
Boring Progress and Water Observations Boring Progress and Water Observations Time Borehole Casing Depth Ca	18.91-19.14		С				1				interbee Occas GRAD (MERC (stratu 1 grey si IVb. stainin	dded with ional lan E III. CIA MUDS m copied 8.00-18.44 ltstone. 3.46-18.62 18.62-18 g 19.11-minated wi 9.30m: NI.	weak fine grained SANDST inae of weak grey silts STONE GROUP) from 17.30m from previous som: Interlaminated sandston 2m: with sandy silt matrix, GR.75m: Siltstone with local younger siltstone. 19.30m: Very weak much th grey siltstone.	sheet) e and RADE yellow	3.31)	
Date Time Borehole Depth Depth Depth Depth To Duration (hh:mm) Date Time Borehole Depth Depth Depth Depth To Duration (hh:mm) To Duration (hh:mm) All dimensions in metres Scale: 1:25	20.04-20.43	36	С		100	95	95				grey, siltstor (MER0	occasion ne. GRAD CIA MUD 0.61-20.68	al pockets and laminae E II. STONE GROUP) m: NI.	ottled grey (0.39)	× × × × × × × × × × × × × × × ×
Date Time Borehole Depth Depth Depth Depth To Duration (hh:mm) Date Time Borehole Depth Depth Depth Depth To Duration (hh:mm) To Duration (hh:mm) All dimensions in metres Scale: 1:25	Boi	rina I	Progress	and Water C	bservati	ons			Chise	llinc	ı / Slow P	rogress				
All dimensions in metres Scale: 1:25 Method Inspection pit + Plant Dando 3000 + Drilled Logged DNartey + Checked			Borel	hole Casing	Boreh Diame	ole eter				T		Duration	General F	kemar ———	KS	
Method Inspection pit + Plant Dando 3000 + Drilled Logged DNartey + Checked													All dimensions in metres	Scale.	1.25	•
				Dic	nt .					ᆣ.						

2		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress		General F	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Jenerai i	Temai	KS	
,				•	,									
										All dimension	ons in metres	Scale:	1:25	
	Method Used:						+	Drilled By: Jo	nny Hutt	Logged By:	DNartey + RStan	Checked By:		AGS

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STRUCTURAL SOILS BOREHOLE LOG

Contract:				(Client:		Boreho	ole:		
	EMG Pha	se 2				SEGRO			Bŀ	118
Contract Ref	•	Start:	15.09.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	06.10.22		77.62	E:446112.9 N:324864.2		1	of	12
	Samples & Test	ting	Mecha	anical Lo	og ∞ , 5 _			Denth	Ma	aterial

			Sample	s & Lesting	ı		anıcal	Log	ioi - ™	듄		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	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 - 0.30 - 0.40 - 0.50 - 0.50 - 0.50-0.80 - 0.80-1.20	1 3 2 4 6 5 7 10 8 9	D B ES D B ES D D ES B								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								- - -	
vww.soils.co.ı	1.70	15	D									-	
977-552299, Web: w		16 17	ES UT _(UT100)	95 blows 100% recovery								- (3.90) - -	
977-552255, Fax: 01	2.50 2.50-3.00 - 2.60	18 20 19	D B ES									- - -	
ire, WF10 1NJ. Tel: 01	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, V	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 - -	
Pot													

	I	Boring Pro	ogress and	Water Ob	servations		Chisel	lling / Slow F	Progress	Conoral	Remarks		
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)				
20/	/09/22 /09/22 /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 C Hand dug inspection pit			
)	lethod Inspection pit + Cable Percussion +		Plan Use		ando 3000 · cchio GEC		Drilled By:	???	All dimensions in metres Logged DNeylon + By: JAlton	Scale: 1:25 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 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 |

Rotary Cored



BOREHOLE LOG

Contract:				Client:			Borehole	e:		
EMG Phas	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:32486	4.2		2	of	12

L													
ſ			Sample	s & Testing		/lecha			∞ ' iº	<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
	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)	
0110:01-3771111	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	**************************************
3	5.50	33	D									-	· · · · · · · · · · · · · · · · · · ·
ww.sons.co.av, Email: ask@sons.	6.00 6.00-6.45 6.00-6.45 6.00-6.50	34 35 36	ES SPT DSPT B	N=43								-	× · × · × · × · × · × · × · × · × · × ·
: [6.50	37	D									-	× · × × × × × × × × × × × × × × × × × ×
01011-002200,												(4.00)	****** ****** ******
<u> </u>	7.00-7.36		SPT	8,12/14,19,17								_(4.00)	× · × · × · × ·
01011-00520	7.00-7.45	38 39	DSPT B	for 61mm								_	× · · × · × · · × · · × · × · × · × · ×
	7.50 7.50-7.83	40	D SPT	10,13/18,26,6 for 25mm									×°, × ×° × × ×
,	7.50-7.95 7.50-8.00	41 42	DSPT B	101 2311111								-	*• * * * * * * * * * * * * * * * * * *
	8.00-8.38		SPT	8,10/11,15,24								-	× × × × ×
2	8.00-8.45 8.00-8.50	43 44	DSPT B	for 75mm								- -	× · · × · × · × · × · × · × · × · × · ×
ouches, 1 ouch y others, cashe	8.50	45	D									- - -	* * * * * * * * * * * * * * * * * * *
	•											9.00	× × × ×

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ם		Boring Pro	ogress and	Water Ob	servations		Chise	ling / Slow F	Progress		Conoral	Domor	de	
	Date	Time	Borehole		Borehole Diameter	Water	From	То	Duration (hh:mm)		General l	Remai	KS	
2			Depth	Depth	(mm)	Depth		1	(1111.11111)					
Oollo Etta, crianioni Onico										All dimon	sions in metres	Scale:	4.25	
5										All ullileli	SIONS IN MERIES	Scale.	1:25	
2 2 2	Method Used:	Cable Po	ction pit + ercussion -	Plan Used		ando 3000 icchio 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 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 - 10:40 | TC9 |

BOREHOLE LOG

Contract:		Client:		Boreho	e:		
EMG Pha	se 2		SEGRO			В	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		3	of	12
0 1 0 7							

			Samples	s & Testing	ı	Mech	anical		≅ ' 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
	9.00-10.50 9.00-9.21 - - - 9.00-9.45	46	SPT	18,7/31,19 for 42mm				* * * * * * * * * * * * * * * * * * *			AZCL. (MERCIA MUDSTONE GROUP)	(0.40)	AZCL
co.uk. 11/12/22 - 10:40 TC9	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)	(0.75)	
w.soils.co.uk, Email: ask@soils.c	10.50-12.00				- ¥ -	*	X	-			Very weak greenish grey SILTSTONE. Bedding fractures: Very closely spaced, rough, undulating. (MERCIA MUDSTONE GROUP) 10.40-10.45m: Extremely weak reddish brown mudstone. Very weak reddish brown MUDSTONE with occasional fine to medium gravel size pockets of greenish grey siltstone. GRADE II.	10.15	× × × × × × × × × × × × × × × × × × ×
ax: 01977-552299, Web: ww	- - - 11.10-11.30 - -	48	С		87	63	41				(MERCIA MUDSTONE GROUP)	-(1.05) - - - - - - - - - - - - - - - - - -	
1NJ. Tel: 01977-552255, I	- - - - 12.00-13.50				X	X	 X				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) 11.65-11.70m: Moderately weak light reddish brown sandstone.	(0.45)	× × × × × × × × × × × × × × × × × ×
Potteries, Pottery Street, Castleford, West Yorkshire, WF-10 1NJ: 161: 019 / 7-5522555, Fax: 019 / 7-5522599, Web: www.soils.co.uk, Email: ask@soils.co.uk, 1117/2/22 - 10:40 1C9	12.60	49	D		100	39	0				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)	
Potteries, Pottery Str	-							 			Description on next sheet	13.25 -	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		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	Remai	KS	
,													
									All dimens	sions in metres	Scale:	1:25	
Method Used:					ando 3000 cchio GEC		Drilled By:	???	Logged By:	DNeylon + JAlton	Checked By:		AGS
	Rota	rv Cored							I				

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 - 10:40 | TC9 |



BOREHOLE LOG

Contract:			Client:		Borehole) :		
EMG Ph	ase 2			SEGRO			В	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

			Samples	s & Testing	N	Mecha	anical	Log <u>∞ , 5</u>	<u></u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	It Backfill Backfi	Water	Description of Strata	(Thick ness)	Graphic Legend
- - - - - - - - - -	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
www.soils.co.uk, En	15.00-16.50				X				1	AZCL. (MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE, recovered as sandy angular to subangular fine to coarse gravel. GRADE III.	15.20	AZCL
ax: 01977-552299, Web: v	15.90	51	D		87	0	0		¥.	(MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE. GRADE II. Fractures: Very closely spaced, randomly orientated, with occasional black staining on	15.70	
Tel: 01977-552255, F	16.50-18.00				X	 	X			surfaces. (MERCIA MUDSTONE GROUP)	- (0.86) - - - - - 16.56	
e LOG - A4F 7033 14 EAST est Yorkshire, WF10 1NJ. Tel:										Very weak greenish grey fine grained SANDSTONE. Bedding fractures: Closely spaced, rough, undulating. (MERCIA MUDSTONE GROUP) Extremely weak reddish brown thinly laminated MUDSTONE. GRADE II.	- 16.75 - (0.35) - 17.10	
et, Castleford, Wes		F0			77	50	35			(MERCIA MUDSTONE GROUP) 16.90-17.00m: Randomly orientated fractures. AZCL	- - (0.45) - - 17.55	AZCL
otteries, Pottery Street, Castleford, W	· 17.55-17.80 ·	52	С		•	V				Very weak to weak reddish brown MUDSTONE with occasional gravel size pockets of siltstone. GRADE II. (MERCIA MUDSTONE GROUP)		

	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	Remai	KS	
,													
									All dimens	sions in metres	Scale:	1:25	
Method Used:					ando 3000 cchio GEC		Drilled By:	???	Logged By:	DNeylon + JAlton	Checked By:		AGS
	Rota	rv Cored							I				

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PriVersion: 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	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		5	of	12
0 1 0 7						\neg	

			Samples	s & Testing		Mecha	anical	Log	∞ ' ioi	-		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	lf (mm	Backfill & Instru-	Water	Description of Strata	(Thick ness)	
	18.00-19.50										Very weak to weak reddish brown MUDSTONE with occasional gravel size pockets of siltstone. GRADE II. (MERCIA MUDSTONE GROUP) (stratum copied from 17.55m from previous sheet)	(1.00)	
	19.10-19.20	53	С		97	69	37				Very weak greenish grey fine grained SANDSTONE with occasional fine to medium sand sized vugs. Bedding fractures: Very closely spaced, rough, undulating. (MERCIA MUDSTONE GROUP)	(0.70)	
+											Extremely weak reddish brown MUDSTONE	19.35	
-	19.50-21.00				+	X	X				interspersed with greenish grey siltstone. GRADE II. (MERCIA MUDSTONE GROUP)	-	
-											Moderately weak to medium strong greenish grey fine grained SANDSTONE. (MERCIA MUDSTONE GROUP) 19.50-19.60m: Reddish brown very clayey angular medium to coarse gravel.	(0.95)	
-					97	77	61				19.80m: Rough planar bedding fracture, infilled with reddish brown clay 19.83-19.87m and 19.90-19.95m: Extremely weak reddish brown mudstone. 20.10m: Rough planar bedding fracture,	20.30	
-	20.75-20.85	54	С								infilled with reddish brown clay 20.10-20.15m: Thinly laminated with some thin beds of reddish brown clay 20.23-20.30m: Thinly laminated and partly recovered as fine to medium size gravel.	(1.00)	
	20.75-20.65	54	C								Extremely weak reddish brown MUDSTONE with	[` ′	
-	21.00-22.50				*	 	X				frequent fine to coarse gravel size pockets of greenish grey silt. GRADE II. (MERCIA MUDSTONE GROUP) 20.30-20.70m: 75° undulating rough fracture.	-	
ľ												21.30	
	21.80-22.05	55	С		93	40	40				Extremely weak to very weak greenish grey SILTSTONE interspersed with extremely weak reddish brown mudstone. Generally recovered as a sandy gravel to cobbles, with laminae in some gravel fragments. Randomly orientated fractures in larger gravel / cobbles. (MERCIA MUDSTONE GROUP)	(0.75)	× × × × × × × × × × × × × × × × × × ×
.	.											22.05	× × × × × × × × × × × × × × × × × × ×
-											Stiff reddish brown sandy CLAY with occasional fine to medium gravel size pockets of greenish grey silt. GRADE IVa.	(0.30)	
ŀ											(MERCIA MUDSTONE GROUP)	22.35	
Ĺ							<u> </u>				Description on next sheet	22.50	

2		Boring Pro	gress and	Water	Obse	ervations		Chisell	ing / Slow F	rogress		General I	Domor	ko	
	Date	Time	Borehole	Casir	'9 ₁	Borehole Diameter	Water	From	То	Duration (hh:mm)		Generali	Remai	KS	
3			Depth	Dept	n	(mm)	Depth			(1				
,															
5															
5															
í															
2															
Š											All dimens	sions in metres	Scale:	1:25	
	Method Used:	opootion pit			lant Ised:		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 | 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 - 10:40 | TC9 |



STRUCTURAL SOILS

BOREHOLE LOG

Contract Ref: Start: 15.09.22 Ground Level (m AOD): National Grid Co-ordinate: Sheet:	Contract:		Client:		Borehole	:		
	EMG Phas	se 2		SEGRO			ВІ	H18
70FF44	Contract Ref:	Start: 15.09.22 Gro	und Level (m AOD):	National Grid Co-ordinate:	Sheet:			
/65514 End: 06.10.22 //.62 E:446112.9 N:324864.2 6 of	765514	End: 06.10.22	77.62	E:446112.9 N:324864.2		6	of	12

Samples & Testin Depth (m) No Type Resu	s & Testing	ı	Mecha	anical	Log	#ion F	Į.				Depth	Mate		
	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water		De	escription of Strata	(Thick ness)	Grap Lege
23.55-23.70	56	C	. , SSAIRO	97	777	53	<u>((mm)</u>	E _ E		Extren intersp weak toward (MER)	ISTONE. CIA MUDS nely weak STONE with the stone with the stone with the stone with the stone weak green weak green weak green weak green weak green weak green weak green was some control of the stone weak green was some control of the stone weak green was some control of the stone weak green was some control of the stone weak green was some control of the stone weak green was some control of the stone was some control of t	inish grey fine to medium grained at the strong of the sittstone of the si	d	× × × × × × × × × × × × × × × × × × ×
			nole	Wate	er		lling		Progress	General Rei	narks			
			nole Casing	Boreh	nole eter	Wate Dept	- 11	From	lling	/ Slow F		General Rei	marks	
												All dimensions in metres Scal	e: 1:2	5
Method		ection p	it + Plan			ndo 30			Dri		???	Logged DNeylon + Che	cked	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress		General I	Domor	ko	
Silciola	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Generali	Remai	KS	
S Ltd, Didilon Omice - Ca			·	·		·								
500										All dimens	sions in metres	Scale:	1:25	
Oil details	Method Inspection pit + Cable Percussion +					ando 3000 cchio GEC	I	Drilled By:	???	Logged By:	DNeylon + JAlton	Checked By:		AGS

BOREHOLE LOG

Contract:				Client:		Borehole	э:		
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

I				1							1 2 2 2 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2		
			Sample	s & Testing		Mecha			I≡	늅		Depth	Material
	Depth		_		TCR	SCR	RQD	If (mm)	Backfill	Water	Description of Strata	(Thick	Graphic
	(m)	No	Туре	Results	(%)	(%)	(%)	(mm)	ä	>	·	ness)	Legend
İ					. ,	, ,	, <i>,</i>	,	*****		TOPSOIL		7,11/4 7,11/4 7
ł	0.10	۱,							\bowtie		TO GOIL	(0.35)	1, 31, 37,
	0.10	1 2	D B									(0.33)	
	· 0.20			1xT+1xJ+1xV					\bowtie			0.05	71. 71. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.
- [0.20	101	50	IXI+IXJ+IXV							00% 15.11	0.35	
3	-								\bowtie		Stiff reddish brown, mottled grey, slightly gravelly	-	<u></u>
-	-										sandy CLAY. Gravel is angular to subangular fine	-	· · · · ·
20-10-0	-										to coarse sandstone and mudstone lithorelics. GRADE IVa.	_	
-	_								*****				
77											(MERCIA MUDSTONE GROUP)		
1	-								\bowtie			Ī	<u></u>
-	0.90	3	D						\bowtie			-	
:	0.90 0.90-1.20	4	B									_	
3	- 1.00	102	ES	1xT+1xJ+1xV									<u>:</u> -
2	1.00	102	-0	121 - 120 - 124					\bowtie				
	1.20-1.65	5	UT _(UT100)	150 blows					227			[HI-II
Í	-	-	(01100)	78% recovery					V././			t	<u> </u>
	-								1///			ŀ	<u> </u>
<u> </u>	-								V//			ļ.	
-	_								111			L	[
3		_	_						<i>////</i>				· · · ·
2	- 1.65-1.75	6	D						///			-	· <u> </u>
3	-								177			-	
		l _	_						///			-	-
	1.90	7	D										·••
:	2.00-2.45		SPT	N=27					///				
, g	2.00-2.45	10	В						///				
7	2.00-2.45	9	DSPT						<i>Y././:</i>			-	<u></u>
	-								///			-	-
	-								111			-	
?	_								///				
3									///				<u>-</u> -
3	-								///			(4.65)	<u>· o · - · o</u>
3	2.70	11	D						1.7.7			·	<u> </u>
2	2.70	' '	"									-	
2	-								///			_	<u></u>
:									///				
: [3.00-3.44		SPT	6,7/10,13,13,14					K///				- : :
	-			for 65mm					1///			İ	<u> </u>
2	3.00-3.44	13	DSPT						177			-	
:	3.00-3.45	14	В						<i>Y././.</i>			-	-
ا يَ	_											L	
									1///				
5	-								1.7.7			[<u></u>
į	-								K///			<u> </u>	
:	- 0.70	4-	_						1//			ŀ	F
į	3.70	15	D						1//			-	<u> </u>
	_								<i>K///</i>			L	-
3									レンン				F
;	4.00-4.44		SPT 1	0,13/13,13,13,1	1				1///			T .	<u> </u>
1				for 60mm					111			}	_
<u>, </u>	4.00-4.44	17	DSPT	.5. 55					K///			ŀ	
	4.00-4.45	18	В						177			L	
- [1	-						1//		4.35-4.45m: medium strong grey siltstone		<u>-</u> -
ŝ	-								K///		4.55-4.45m. medium strong grey silistone		<u></u>
ا			ı	1					<i>V / / .</i>		1	L	

Δ.													
The		Boring Pr	ogress and	Water Ob	servations		Chise	lling / Slow F	Progress	General Remarks			
eford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks		
Castlefo			Depth	Depth	(mm)	Depth			(1111.111111)	1. Position cleared using C	AT and Conny		
Ö	14/09/22	16:21	5.00	3.00	200	Dry				2. Hand dug inspection pit			
lice	16/09/22	08:00	5.00	5.00	114	Dry				3. SPT hammer AR3104-2			
٥	16/09/22	17:00	20.00	5.00	114	Dry					(-, - : : : : : : : : : : : : : : : : : :		
Branch Office													
-													
s Ltd													
tural Soils										All dimensions in metres	Scale: 1:25		
<u>la</u>	Method			Plan	t 5			Drillad I					
nctr	Used:		ction pit +			ando 3000			nny Hutt +	Logged AJones + Bv: RSenior	0.1.001.00		
⊨	USEU.	Caple P	ercussion +	r USE	J. Coma	cchio GEC	J Z UD	Dy.	Martin	By: RSenior	By: [.fek		

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

	Complex 9 Testing											
		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).	-	
- - - - - 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 Ob	servations		Chisell	ing / Slow F	Progress	General Remarks				
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	OCHERAL NEITHAIN		KS		
3					()									
5														
ב ב ב														
5										All dimensions	in metres	Scale:	1:25	
3	Method Used:							Drilled Jor By:	ny Hutt + Martin	_ 00	nes + enior	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:		Borel	ole:			
	EMG Pha	ase 2							Bl	H19	
Contract Re	f:	Start: 14.09.22 Grou			d Level (m	AOD)	: National Grid Co-ordinate:	Shee	:		
7	765514	End:	16.09.22		76.63	3	E:446150.1 N:32	4740.8	3	of	11
Samples & Tes		sting	Mecha	anical Lo	pg ≣	ř			Depth	М	laterial

Ī	Samples & Testing				Mechanical Log						_ ·		
	Depth (m)	No	Туре	Results		SCR	RQD		Backfill	Water	Description of Strata	Depth (Thick ness)	Materia Graphi Legend
- 9	0.50-11.00				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. 8.00-8.20m: Drilling disturbed, recovered NI as gravel. 8.33-8.50m: 80° to 90° undulating smooth black stained discontinuity occasionally with a little clay smear on surfaces.	9.25	
-											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. Very weak very thinly to thinly bedded reddish brown MUDSTONE. GRADE II.	- - - 9.95 - -	
1	0.53-10.63	24	С		87	37	0				Bedding fracture: Very closely to closely spaced, 0° to 5°, planar and undulating, smooth, clean, locally with a little clay smear and black staining on surfaces. (MERCIA MUDSTONE GROUP) 9.26-9.32m: 85° undulating rough discontinuity with frequent black specks.	-	
1	1.00-12.50				*	*	<u> </u>	NI 10 70			9.32-9.43m: 90° undulating smooth black stained discontinuity 9.35-9.45m: 50° undulating rough discontinuity with a little clay smear on surfaces 9.50-9.75m: extremely weak very thinly to thinly bedded mudstone 9.64-9.75m: Recovered NI as gravel.	[- - - - - - (2.85)	
⁻ 1	2.00	25	D		100	11	0				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. (MERCIA MUDSTONE GROUP) 9.95-10.15m: Discontinuity are extremely closely to very closely spaced randomly orientated undulating smooth with black staining on surfaces. 10.15-10.21m: extremely weak light greenish grey siltstone. 10.26-10.40m: 70° undulating smooth black stained discontinuity.	-	
1	2.50-14.00)			*	*	X	-			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.	- - -	
_1	2.93-13.16	26	С		95	27	0	NI NI 100				(0.73)	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	General Remarks				
	Date	Time	Borehole Depth	Casing Depth	Borehole Water Diameter Depth		From	То	Duration (hh:mm)	Oerierai Nerria		Temai	KS	
			Борит	Ворин	(11111)	Ворин								
										All dimensions in m	etres	Scale:	1:25	
)	lethod Jsed:	Cable Pe	ction pit + ercussion -	Plan Used		ando 3000 cchio GEO		•	ny Hutt + Martin	Logged AJones By: RSenio		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 - 10:40 | TC9 |



Contract:				C	Client:				Boreho	le:		
	EMG Pha	se 2						SEGRO			BH1	9
Contract Ref		Start:	14.09.22	Ground	Level (m	AOD):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	16.09.22		76.63			E:446150.1 N:324740.8		4	of 1 ′	1
	Samples & Testing Mechanic				9 =					Depth	Mater	ial

	65		End:											4	of 1
		Samples	& Testing	1	Mech	anical	Log		_					Depth	Mate
Depth		_	.			RQD		Backfill	Water		De	escription of Strata		(Thick	Gra
(m)	No	Туре	Results	(%)	(%)	(%)	(mm	n) 👸	>					ness)	Leg
							\blacksquare	1//	-	l	. 11.25-	11.36m: 85° undulating r	ouah 🖹	\13.53	
							ΙŢ	1///		discon		ith frequent black specks			
				'		'		1///1		surfac			⊪		
				95	27	0		1///1		1	1.36-11.4	5m: Discontinuities are extre			
				l i		Lι		K././.				y spaced randomly orientated		(0.72)	
				↓	l ↓	↓					clay on	surfaces. Locally surfaces	are		
14.00-15.50				A	Å	A	1	1///1		clean.			11	-	
								[///]				.50m: extremely weak light	grey		
								\mathbb{Z}		siltstor			. }	14.25	
								1///1				12.80m: 85° undulating r	ougn⊪⊤	0	
								1///1				with frequent black spots	on		
								K.4.4		surfac					
14.45-14.59	27	С						1///1		Suii tri	mottled	nated to very thinly bedded red	ional	(0.60)	
								1///1		ongula	r and sub	light grey, CLAY with occas	loizo		
								1//				angular fine to medium grave lics. GRADE III.	Size		
				97	40	17		$\mathbb{R}/\langle \cdot \rangle$				res: Extremely closely to	Von	44.05	
				1 .	l ,	1 .		1///1	-	closely	ig iraciui renaced	0° to 5°, undulating, smooth	very	14.85	
								1///1				cally with a little clay smea			
								\mathbb{R}^{2}		surfac		ouny with a little clay silled	″ "⊪	-	
								1///				STONE GROUP)	⊪	(0.65)	
								1///1				from 12.80m from previous s	heet)	(0.05)	
								1///		L		very thinly to thickly be			
								K///				k very thinly to thickly be IUDSTONE. GRADE II.	uueu		
								1///1				es: Extremely closely to	ver./	15.50	
15.50-17.00				+	 	$+\mathbf{T}$		1///1	-			0° to 5°, planar, smooth		10.00	
15.50-17.00				I T	1	1 T		K././.		undula	tina roua	h, locally stained black and	with		
								1///			onal black		WIGHT		
							NI 20	1/2/1				STONE GROUP)		(0 GE)	
							200	[///]				3m: 85° to 90° undulating sn	nooth 🎼	(0.65)	
							200	Y.				continuity.	-		
								1///1				1m: very weak light greenish	arev -	-	
								1///1		siltstor		, g g	J,	16 15	
								1.7.7	-			0m: very weak light greenish	grey H	16.15	
				100	49	7		K///		siltstor		, , ,	٠ / [
				100	43	'		1/2/1		1	3.82-13.8	5m: very weak light greenish	grey		
								///		siltstor	ie.		` 		
												m: stiff reddish brown clay.	. II⊦		
40 50 40 05								1///1				3.95m: very weak greenish	grey		
16.58-16.65	28	С						[///]		siltstor			- 11		
								Y///				o 15mm diameter reduction s			
								1///1				2m: 88° undulating smooth	black		
								1///1			d discontin			(1.65)	
				<u> </u>	<u> </u>	<u> </u>		K.Z.Z.				thinly to thickly bedded red	ddish 📙	(1.03)	
17.00-18.50				↑	1	↑						NE. GRADE II.			
								1///1		Beddir	ig fracture	es: Very closely to closely spa	aced, ∥ [
								1//				ndulating, smooth, stained	black		
								K///		locally	clean.	STONE ODOLIDY	 -		
								1///1		[(MER	JIA MUDS	STONE GROUP)	.,,∦⊦		
				400	24	40		1///1				3m: 85° undulating smooth	DIACK		
				100	24	13		K //			d discontin		_		
				11				1////		closs i	14.33-14.4	2m: 80° to 90° undulating r	ougn∥⊦		
17.70	29	D						1///1		Clean I	Ucally DIAC	ck stained discontinuity. I 4.45m: extremely weak cl		17.00	
	23							1///	-	 siltstor		т ч.4 5пп. ехпепнету weak C	^{layey} ∦	17.80	
								1///				next sheet	∥ ⊦		
								1///1		2000//	, OII II	0.1001			
												1			
Bor	ring F	Progress	and Water Ob	servati	ions			Chise	lling /	Slow F	rogress	Canaral D	om-	rles	
Data	Time	Borel	nole Casing	Boreh Diame	nole	Wate	er	Erom		То	Duration	General R	CIIIG	11/2	
Date T	Γime	Dep	oth Depth	(mn		Dept	h	From		То	(hh:mm)				
1															
			1				- 11		- 1			1			
												All dimensions in metres S	cale:	1:25	5
Method	Insn	ection p	i t + Plan	t	Dar	ndo 30	000 +	<u> </u>	Drill	ed Jon	ny Hutt +	<u> </u>	cale:	1:25	A

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	rogress	General	Domork	′ 0	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair		
3				-									
:													
í													
3										All dimensions in metres	Scale:	1:25	
) I	Method Used:	sed: Cable Percussion + Used: Comacchie							ny Hutt + Vartin	Logged AJones + By: RSenior	Checked By:		AGS
· L		Rotai	v Cored						needie	I .			



Contract:		Client:		Borehole	:		
EMG Pha	ise 2		SEGRO			Bŀ	1 19
Contract Ref:	Start: 14.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 16.09.22	76.63	E:446150.1 N:324740.8		5	of	11
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surface	Backfill	NI /// // // // // // // // // // // // /	NI 20	nm) NI 20 000	NI 20 200	(mrring)	13 13 50	14	SCF (%) 24 67	000	100 100	100	10		ults	sults	sults	esult	Resi	Re:	Re —	R(Re—	Re —	Re —	Re —	Re —	Re —	e:	es —	SI —	Su'	ul [·]	ılts	S			('	(%	6)	((%	6)	(%	%) 	(MI N 20	m))	////// Back	/////	Wat	war	5	surf	ace	tinu es. 14.7	14.60 ity v	0-1 vitl	escription of 14.72m: 85 th occasiona	° un al bla	idula ack	spe	cks	s ō	h n -	(Thio	s) 0)	Gra Le
surface		00 //	20 1000 1	20 00 1	20 2000 V	20 20 N 20	*		*	,	*	*		-																								1	100	00		24	4	1:	3		20	0	111111		/////			5	surf	ace	tinu es. 14.7	ity v	vitl	th occasiona	al bla	ack	spe	cks	s ō	n	`	<i>'</i>	
				\						,		•																										1	100	000		66	7	550	60		20	0							greygreygreygreygreygreygreygreygreygrey	/ siidin horo cocker horo cocker horo cocker horo cocker horo cocker horo cocker horo cocker horo cocker horo cocker horo cocker horo cocker horo cocker horo cocker horozon cocker horozo	nely first of the property of	wea own I racturntal, is invalid and I wea own I racturntal, is invalid and I wear own I we were well as well	and all all all all all all all all all al	very thinly UDSTONE. S: Very close ndulating, sr clean. STONE GRC m: siltstone in om: siltstone in om: randomly closely space continuities. STONE GRADE les: Extreme subhorizontal ally with a little STONE GRADE les: Extreme subhorizontal ally with a little STONE GRADE les: Extreme subhorizontal ally with a little STONE GRADE les: Extreme les:	GRAI ely to mooth oup) inclusify oriented under the distribution of the control o	DE I close close intate dula ing I ickly occulose ulation so tone grey kly I intate dula dula close dula ing I ickly occulose ulation so dula close dula close so dula ickly occulose grey kly I intate dula close so dula close s	I. sely sely selver ack (<50 dexecting rough large assion ly silt amir amount of the control of	spasta Ominates minimum and to spasta interest store to spasta case store to spasta	m). melloot light ooth	thing yh k dn yn, ont yeal yh h hn yh n tikk h	20.0	0)	
					<u> </u>										01			A					_								_	_ -	_	_							<u></u>									<u> </u>				115					rev	vious sheet)						<u> </u>			
ing / Slow To		Ch Fro		1	\parallel		Wate	١	ole	eho	rvat Boreh Diam	Bore	Во	9	sing	Casin	Casir	Cas	Ca	C)			(. (. ((С	С	Са	as	as	sir	ing	g	П	В	ore	reh	ho	le	Т					╬				ellir	ng			v P	Du	ıratior			Ger	ner	al	R	en	na	rks	3	
To		1		1			Wate Depth	١	ole eter	eho	Boreh	Bore Dian	Bo Dia	9	sing	/ater (Casin Depth	Casir	Cas	Ca	C)			(. (. ((С	С	Са	as	as	sir	ing	g	П	Bo Di	ore	reh	ho et	le er	Т									ellir	ng	/ 5	Slov		rog	9	gress uration		uration	gress Ger	gress Gener	gress General	gress General R	gress uration General Ren	gress General Rema	gress General Remarks	General Remarks

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress	General	Domor	·ko	
asileioid	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	K5	
) - aoill													
Daici													
SOIIS LIU,										All dimensions in metres	Scale:	1:25	
Tuctural	Method Used:		tion pit + ercussion -	Plan + Used		ando 3000 · acchio GEC			│ ıny Hutt + Martin	Logged AJones + By: RSenior	Checked By:		AGS



BOREHOLE LOG

Contract:				Client:			Borehole	e:		
EMG Pha	se 2					SEGRO			В	H19
Contract Ref:	Start:	14.09.22	Groun	d Level (m AOD):	I	National Grid Co-ordinate:	Sheet:			
765514	End:	16.09.22		76.63		E:446150.1 N:324740.8		6	of	11
		_								

<u></u>												
		Sample	s & Testing		Mecha	anical	Log	_			Depth	Material
Depth (m)	No	Туре	Results		SCR	RQD	If	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
										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.		

		Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow F	rogress	General	Domor	ko	
a series	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	KS	
3													
í													
										All dimensions in metres	Scale:	1:25	
0 20 20	Method Used:	Cable Pe	tion pit + ercussion -	Plan Used		ando 3000 · cchio GEC		By: I	ny Hutt + Vartin	Logged AJones + By: RSenior	Checked By:		AGS

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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 1N. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk. | 11/12/22 - 10:40 | TC9 |

BOREHOLE LOG

Contract:				Client:				Boreho	le:		
EMG Pha	se 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

	700	J 14	Ena:	15.0	J. Z Z			0.51			E:446017.0 N:324670.9	ı	ot IO
		Sample	s & Testing		Mecha	anical	Log	s :	=	<u>.</u>		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	lf (mm)	Flush Returns & Details	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
0.00-0.20	1	В					i ,	A			TOPSOIL		<u> </u>
0.10	101	ES	1xT+1xJ+1xV									(0.40)	17 . 711 . 71
0.10 0.25	3	D D											<u> </u>
0.25-0.40	4	В										0.40	12 112. 11
0.30	102	ES	1xT+1xJ+1xV								Firm reddish brown slightly gravelly sandy	_	×° × ×
	100										SILT. Sand is fine to coarse, predominantly coarse. Gravel is subangular to	_	Ŷ×°Ç×
0.60 0.60	103	ES D	1xT+1xJ+1xV								subrounded fine to coarse of quartzite .	-	°× × ×
- 0.60-0.90	6	В										-	× · × ×
_												(1.10)	× · × ×
1.00	104	ES	1xT+1xJ+1xV									-	× . × × ×
1.00	7	D										-	*°.^` × .
- 1.00-1.20 - 1.20-1.65	8	B SPT	N=15						////				*
1.20-1.65	10	DSPT	" "						1//				*° . ×
1.20-1.65	11	В							///			1.50	* .× °× ×
-											Firm reddish brown, mottled grey, slightly	_	<u></u>
1.60-1.80	12	В							1//		gravelly sandy CLAY. Sand is fine to coarse, predominantly coarse. Gravel is	-	
4.00	1,0										angular to subangular fine of mudstone as	-	<u> </u>
1.80	13	D							///		lithorelics. GRADE IVa. (MERCIA MUDSTONE GROUP)	-	
2.00-2.45	14	UT _(UT100)	120 blows					one.	(//		(MERCIA MODSTONE GROOF)	(4.20)	<u></u>
_ 2.00-2.43	'	UT100	89% recovery					st dstc	1//			(1.20)	
-								Αğ	///			-	<u>·•···</u>
-								Air+Mist Red/Grey Mudstone.)				-	
- - 2.45 - 2.55	15	D)/pe	(///				<u>· · · · · · · · · · · · · · · · · · · </u>
- 2. 4 0-2.00 -	13							<u>R</u>	1//				
-									///			2.70	<u></u>
	1.0										Extremely weak reddish brown fine grained MUDSTONE with rare greenish grey	-	
2.80	16	D							(//		laminae and pockets of siltstone. GRADE	-	
3.00-3.45		SPT	N=30						1///		IVb.	_	
3.00-3.45	18	DSPT	14-30						1//		(MERCIA MUDSTONE GROUP)	_	
3.00-3.45	19	В							177			-	
-									1//			-	
-									1//			-	
									1//				
_									177				
3.70	20	D							1//			_	
-									1//			(2.50)	
4 00 4 44		edt.	7 0/10 12 19 0						1//			- (2.00)	
4.00-4.41		SPT	7,9/10,13,18,9 for 30mm						(//			_	
4.00-4.41	22	DSPT							1///			_	
4.00-4.45	23	В							1//			-	
												-	
			I .				1		V / /		I .	L	

<u>n</u>											
The		Boring Pr	ogress and	Water Ob	servations		Chise	lling / Slov	w Progress	Caraaral	Damarka
eford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hhmm)	General	Remarks
astle	Date	1	Depth	Depth	(mm)	Depth	1 10111		(hh:mm)	Position cleared using C	AT and Conny
ils Ltd, Branch Office - C	15/09/22 20/09/22 21/09/22 21/09/22	12:00	5.00 10.70 21.00 30.00	4.50 None None None	200 N/R N/R N/R	9.80 8.30 25.90				Hand dug inspection pit SPT hammer AR3104-2	to 1.20m.
S R										All dimensions in metres	Scale: 1:25
tructura	Method Used:		ction pit +	Plan Used		ando 3000 cchio GEO		Drilled By:	Jonny Hutt	Logged DNartey + By: DNevlon	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 - 10:41 | TC9 |



BOREHOLE LOG

Contract:				Clien	nt:			Boreho	le:		
EMG Ph	ase 2						SEGRO			В	H20
Contract Ref:	Start:	15.09.22	Ground	d Lev	el (m A	AOD):	National Grid Co-ordinate:	Sheet:			
765514							E:446017.0 N:324870.9		2	of	16
0 1 0 7											

Ī			Sample	s & Testing	ı	Mecha	anical	Log	s	ils		J.		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 sheet)	-	
10:41	5.00-5.36		SPT	12,13/16,21,17 for 55mm							///		Sileet)		
11/12/22 - ′	- 5.00-5.36 - 5.20-6.00	26	DSPT		_	—	—	A	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	tone)	///. ////. ////.		Extremely weak reddish brown MUDSTONE with frequent beds of greenish grey siltstone. GRADE II.	5.20	
il: ask@soils.co.uk.	5.48-5.65 - - -	28	С		69	25	25		Air+Mist	(Red/Grey Muds			Fractures: Extremely closely spaced, randomly orientated, planar, smooth, with frequent black and yellow stained. (MERCIA MUDSTONE GROUP) 5.20-5.45m: AZCL 5.45-5.75m: NI.	- - -	
www.soils.co.uk, ⊨ma	6.00 -7 .50				*	*	*	NI 20						(2.30)	
7-552255, Fax: 01977-552299, Web: w	- - - - - - - 7.25-7.40	29	C		100	9	9	150	Air+Mist	(Red/Grey Mudstone)			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.	-	
NJ. Tel: 0197	7.50-9.00		_		*	X	X	X	X		///. ///. ///. ///.		Extremely weak to very weak indistinctly and very thinly bedded reddish brown	7.50	
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 - 10:41 TC9	- - - - - 8.24 - -	30	D		100	67	60	NI 30 70	Air+Mist	(Red/Grey Mudstone)			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)		
otteries	-				V						/		8.90-8.95m: Greenish grey siltstone.	-	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow	Progress	Conora	l Remar	l.o	
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 Used:	Cable Po	tion pit +	Plan Used		ando 3000 cchio GEC	·	Drilled By: J	onny Hutt	Logged DNartey + 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 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:				С	lient:				Boreho	ole:		
	EMG Phas	se 2						SEGRO			BH	120
Contract Ref:	ntract Ref: Start: 15.09.22 Gro							National Grid Co-ordinate:	Sheet:			
765	5514	End:	15.09.22		76.91			E:446017.0 N:324870.9		3	of	16
	Samples & Test	ing	Mecha	nical Log	<u>0 0</u>	=	_			Denth	Ma	aterial

	Donth		Sample	s & Lesting	N	vlecha	anıcal	Log	ns ails	∥ ≣	je.		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
ter 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	9.00-10.50 9.08-9.36	31	С		100	47	47	NI 30 70	Air+Mist (Red/Grey Mudstone)		4 \(\sqrt{i} \)	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 -					*	*		- X		4	10.45-10.60m: (Soft) reddish brown silty clay with lithorelics of mudstone.	-	
	- 11.00-11.20 - - -	32	С		77	77	77		Air+Mist Red/Grey Mudstone)				11.40	
NJ. Tel: 01977-552255, Fax: 0	- - - - 12.00-13.50				_	*	*	1	Rec			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)	-	× × × ×
	12.30	33	D		97	60	47	NI 50 170	Air+Mist (Red/Grey Mudstone)				- (2.85)	× × × × × × × × × × × × × × × × × × ×
Potteries, Pottery Street, Castleford, W	- - -					•	V						-	× × × ×

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	General	Domor	ko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	KS	
				, ,								
									All dimensions in metres	Scale:	1:25	
Method Used:	Cable P	ction pit +	Plan Used		ando 3000 cchio GEC	I	Drilled By: J	onny Hutt	Logged DNartey + 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 Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256. Fax: 01977-552299 v

BOREHOLE LOG

an											BOKEHO	JLI		.OG
Contract:							Cli	ent:				Boreho	le:	
		EMC	3 Phase 2								SEGRO			BH20
Contract Ref	f:		Start:	15.0	9.22	Grour	nd Le	evel (m	AOD):		National Grid Co-ordinate:	Sheet:		
7	765	514	End:	15.0	9.22		7	76.91			E:446017.0 N:324870.9		4	of 16
5		Sample	s & Testing		Mech	anical L	_og	Sils	■	ē			Depth	Material
Depth (m)	No	Туре	Results	TCF (%)	SCR (%)	RQD (%)	If (mm)	Flush Returns & Details	Backfill	Water	Description of Strata		(Thick ness)	Graphic Legend
13.50-15.00 13.50-13.65		С				A	NI 50 170	tone)			Extremely weak to weak reddish brow greenish grey MUDSTONE with a spaced very thin and thin beds of gregrey SILTSTONE. GRADE II. Fractures: Randomly orientated, closely spaced, planar and undu smooth, clean. (MERCIA MUDSTONE GROUP)	closely eenish very	-	× × × ×

li: ask@soils.co.uk. 11/12/22 - 10:41 TC9	- - - - - - -				97	40	30	NI 50 170 NI 5 60	Air+Mist (Red/Grey Mudstone)	spaced very thin and thin beds of greenis grey SILTSTONE. GRADE II. Fractures: Randomly orientated, ve closely spaced, planar and undulatin smooth, clean. (MERCIA MUDSTONE GROUP) (stratum copied from 11.40m from previous sheet) Extremely weak reddish brown clays MUDSTONE with abundant very close spaced thinly beds of greenish grasiltstone. Fractures: Randomly orientated, extremed closely spaced, planar, smooth, clean. (MERCIA MUDSTONE GROUP) 14.50-14.65m: Clay with frequenisms	ry	
- v10_01. 552299, Web: www.soils.co.uk, Emai	15.00-16.50 - - - - - -			•	87	53	43	NI 10 10	Air+Mist (Red/Grey Mudstone)	lithoerlicts. Very weak reddish brown MUDSTON with medium spaced thin beds of greenis grey SILTSTONE. Fracture Set 1: 0-15°, closely space undulating, smooth, clean. GRADE I. Fracture set 2: Randomly orientate extremely closely spaced, planar, smoot clean. 14.80-15.25m: NI - drilling disturbed.	 E	× × × × × × × × × × × × × × × × × × ×
\st_MIDLAND_AIRPORT.GPJ - Tel: 01977-552255, Fax: 01977-	15.89-16.05 - - - - - - - - - - - - - - - - - - -	35	С						Air (Red/Gre)	16.30-16.50m: NI - drilling disturbed.	16.50	× × × × × × × × × × × × × × × × × × ×
ersion: v8_07 Log COMPOSITE LOG - A4P 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01. st. 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 - 10:41 TC9	16.50-18.00 - - - - - 17.30-17.50	36	С		97	31	0		Air+Mist (Red/Grey Mudstone)	Extremely weak reddish brow MUDSTONE. Frequent gravel size pocker and lenses (<15mm) of greenish grasiltstone. GRADE II. Bedding fractures: Closely spaced, rough planar. Fractures Set 2: Very closely spacer randomly orientated, smooth, planar. (MERCIA MUDSTONE GROUP)	ts f	
ersion: ss, Pot	-									weak to very weak .	´	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	Conoral	Domorle	' 0	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remain		
8													
j j													
										All dimensions in metres	Scale:	1:25	
)	lethod sed:	Cable Pe	tion pit + ercussion -	Plan Used		ando 3000 cchio GEC		Drilled By: ,	lonny Hutt	Logged DNartey + By: DNeylon	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB_LibVersion; v8_07_001 PrjVersion; v8_07 | Log CON Structural Solis Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castle



Contract:					Clie	nt:				Borehol	e:		
	EMG Pha							SEGRO			В	H20	
Contract Ref:		Start:	15.09.22	Groun	d Lev	/el (m A	AOD):	١	National Grid Co-ordinate:	Sheet:			
76	765514 Start: 15.09.22 End: 15.09.22								E:446017.0 N:324870.9		5	of	16
	Camaniaa 0 Taat		N4L-	الممند									

		014	End:	10.0	9.22			0.51				117.0 N.324670.9	<u> </u>	or 10
D 41-		Samples	s & Testing			anical	Log	ails	■	ē			Depth	Materi
Depth (m)	No	Туре	Results	TCR	SCR (%)	RQD	lf (mm)	Flush Returns & Details	Backfill	Water		Description of Strata	(Thick ness)	Graph Leger
18.00-19.50		Турс	results	(%)	(%)	(%)	(mm)	<u> </u>	///		Extremely MUDSTC	weak reddish brown NE. Frequent gravel size pockets	- (3.25)	Legei
											and lens	es (<15mm) of greenish grey GRADE II.	-	
								 			planar.	ractures: Closely spaced, rough,	_	
								t dston			randomly	Set 2: Very closely spaced, orientated, smooth, planar.	_	
				97	43	20		Air+Mist 3rey Mud	///.		(stratum o	MUDSTONE GROUP) copied from 16.50m from previous		
18.90-19.10	37	C						Air+Mist (Red/Grey Mudstone)				0-18.15m: Weak to medium strong	_	
-	1							_ (Re	///. ///.			grey SANDSTONE with fine to and size vugs.	_	
													_	
									///. ///.				-	
19.50-21.00				X	 X	 		stone						
								Air+Mist Grey Mudstor					19.75	
											SANDST	enish grey fine to medium grained ONE with frequent medium to	_	
-								(Red/			thin lamin	and size vugs. Interspaced with ae of siltstone.	(0.70)	
											undulating			
				97	65	27						MUDSTONE GROUP) Im to 19.85m: Siltstone. 20.20-20.40m: Sandstone is	20.45	
20.45-20.70	38	С							///.			ed with reddish brown clay with lithorelics.	-(0.35)	
											Weak	reddish brown MUDSTONE.	ļ` <i>′</i>	
												i. MUDSTONE GROUP) 70-20.80m: Very closely spaced	20.80	
21.00-22.50				+	+	+		A			randomly		_	
											Weak to	medium strong greenish grey fine	(0.90)	
									///		(MERCIA	n grained SANDSTONE. . MUDSTONE GROUP) 0-21.45m: AZCL.		
								 			21.00	-21.43III. AZGL.	_	
21.60-21.95	39	С						/list dston	///. ///.		.,		21.70	:::::: :::::::::::::::::::::::::::::::
				70	53	33		Air+Mist (Red Mudston			(MERCIA	k greenish grey SILTSTONE. MUDSTONE GROUP)	(0.30)	× × ×
-								 (R			Description	on on next sheet	22.00	× × ×
									///		2000//pi/	an on most oneot	_	
											22.25	5-22.50m: Siltstone.	_	
				₩	₩	V		V			22.30	-22.50m. Sinstone.		× × × × × ×
Вс	oring		and Water Ob					Chise	lling / S	Slow	Progress	General Rema	arke	
Date	Time	Borel Dep	0	Borel Diam (mr	eter	Wate Dept	- 11	From		Го	Duration (hh:mm)	Conordi i Coni		
												All dimensions in metres Scale:	1:25	
Method		ection p				ndo 30		205	Drille			Logged DNartey + Check		AC
Used: (Percuss		J. C	omac	chio (3EU 2	205	Ву:	J	onny Hutt	By: DNeylon By:		AU

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow	Progress		General I	Domor	·ko	
isileioid	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Generali	Temai	KS	
Solls Lta, Dianch Ollice - Ce										All dimono	ions in metres	Scale:	4.05	
u uctur ar	Method Used:		tion pit + ercussion -	Plan • Use		ando 3000 acchio GEC	I	⊥ Drilled By: J ∉	onny Hutt	Logged By:	DNartey + DNeylon	Checked By:	1:25	AGS

120												DOILLI			
Contract:								CI	ient:				Boreho	ole:	
		EMO	3 Pha	ase 2								SEGRO			BH20
Contract Re	f:			Start:	15.0	9.22	Grou	ınd L	evel (m	AOD):		National Grid Co-ordinate:	Sheet:		
7	765	514		End:	15.0	9.22			76.91			E:446017.0 N:324870.9		6	of 16
		Sample	s & Tes	sting		Mech	anical	Log	s <u>s</u>	■	<u>~</u>			Depth	Material
Depth (m)	No	Туре	Re	sults	TCF (%)	SCR (%)	RQD (%)	If (mm	Flush Returns & Details	Backfill	Water	Description of Strata		(Thick ness)	Graphic Legend
22.50-24.00										///. ///. ///.		Extremely weak reddish MUDSTONE with occasional gra		-	× × × × × × × × × × × × × × × × × × ×

Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	lf (mm)	Flush	& Def	Back	Wat		Description of Strata	(Thick ness)	Le
22.50-24.00	40	С		100	40	0			one)			pockets of interbedd weak gre- II. Bedding to undulating (MERCIA (stratum of sheet)	weak reddish bro NE with occasional gravel s of greenish grey siltstone. Medie ed with extremely weak to venish grey SILTSTONE. GRAI fractures: Medium spaced, rough, infilled with red sandy clay. MUDSTONE GROUP) copied from 22.00m from previous	ize um - ery - DE - gh, - -	× > > > > > > > > > > > > > > > > > > >
					•	V							23.70-23.95m: Extremely we verging towards silt.	eak _ _	* >
24.00-25.50								•	١			24.10	0-24.25m: Siltstone.	-	X
24.35-24.55	41	С		100	69	21		Air+Mist	(Red Mudstone)			SANDST Fractures orientated	y weak reddish brown fine grair ONE. : Closely spaced, randord, smooth, undulating. A MUDSTONE GROUP)	-	× × × × × × × × × × × × × × × × × × ×
26.65-26.90	42	С		97	93	83		Air+Mist	(Red Mudstone)			extremely SILTSTC	ONE very thinly interbedded v		× × × × × × × ×
								١,	,			Description	on on next sheet	26.90	× ×
Boi	ring F	Progress	and Water Ob	servat	ions			Cr	nisel	ing / S	low l	Progress	0 15		
	Γime	Borel Dep	nole Casing	Borel Diam (mr	nole eter	Wate Deptl	- 11		om	Т		Duration (hh:mm)	General Re	marks	
										<u> </u>			All dimensions in metres Sca		
Method		ection p	i t + Plar	ıt	Dai	ndo 30	100 +			Drilled			Logged DNartey + Ch	ecked	į

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow	Progress	General	Domor	lko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
8												
i l												
									All dimensions in metres	Scale:	1:25	
Method Used:		ction pit + ercussion -	Plar Use		ando 3000 Icchio GEO	I	Drilled Bv: Ja	onny Hutt	Logged DNartey + Bv: DNevlon	Checked By:		AGS

Contract:							Clie	nt:				Boreho	le:	
		EMG F	Phase 2								SEGRO			BH20
Contract Ref	:		Start:	15.09	9.22	Ground	d Le	vel (m	AOD):		National Grid Co-ordinate:	Sheet:		
7	655	514	End:	15.09	9.22		7	6.91			E:446017.0 N:324870.9		7	of 16
		Samples &	Testing	N	/lecha	anical Lo	og	s 🖺	Ī≣	<u>~</u>			Depth	Materi
Depth (m)		Туре	Results	TCR (%)	SCR (%)	RQD (%) (n	lf nm)	Flush Return & Deta	Backfill	Water	Description of Strata		(Thick ness)	Graph Leger
27.85-28.15	43	С		100	87	30		Air+Mist (Red Mudstone)			Medium strong greenish grey thi thickly laminated SANDSTONE. (MERCIA MUDSTONE GROUP) (stratum copied from 26.90m from prisheet) Extremely weak reddish MUDSTONE with abundant fine to migravel size pockets of greenish siltstone. GRADE II. (MERCIA MUDSTONE GROUP) 27.10-27.40m: 70°, smooth, fracture. Weak reddish brown fine gravel size pockets of gried grey siltstone. (MERCIA MUDSTONE GROUP)	brown nedium grey planar grained ne to	27.10	
28.50-30.00				87	50	28		Air+Mist (Red Mudstone)			28.80m: Bedding fracture is infille subangular gravel of reddish mudstor 29.20-29.50m: Thinly cross lamin	ne. nated.	(1.45)	
29.40-29.60	44	С						Air (Red N			Extremely weak reddish brown fine g SANDSTONE. (MERCIA MUDSTONE GROUP)	grained	(0.70)	
				\				\	<i>///,</i>		29.95m: Greenish grey siltstone. Borehole terminated at 30.00m depth		30.00	

<u>D</u>		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow l	Progress	Co	eneral F	Domor	-l/0	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	Ge	enerai r	Temai	KS	
5 - 52			,	·										
5														
į,														
SI COILS										All dimensions	in metres	Scale:	1:25	
ון תכונו	Method Used:		tion pit + ercussion ·	Plar Use		ando 3000 · acchio GEC	I	Drilled By: J o	onny Hutt		lartey + Neylon	Checked By:		AGS

BOREHOLE LOG

Contract:				Client:		Borehole):		
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		1	of	16

			Sample	s & Testing	N	/lecha	anical	Log	<u>∞</u> 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 0.20	1 2 101	D B ES	1xT+1xJ+1xV							TOPSOIL	0.30	11 · 21 · 12 · 2 12 · 21 · 12 · 3 · 12 - 3 · 12 · 3 · 12 · 3
2 - 10:41 TC9	0.40 - 0.40 - 0.40-0.60	102 3 4	ES D B	1xT+1xJ+1xV							Stiff orangish brown, mottled grey, slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to coarse extremely weak mudstone and siltstone lithorelics and occasional sandstone. GRADE IVa. (MERCIA MUDSTONE GROUP)	- (0.50) -	x _ x
lk. 11/12/2	0.80 0.80-1.20	5 6	D B								Stiff to very stiff reddish brown slightly gravelly silty CLAY. Sand is predominantly coarse. Gravel is subangular fine to coarse of extremely weak	0.80	xo
s.co.u	1.00	103	ES	1xT+1xJ+1xV							mudstone and siltstone lithorelics and occasional	-	~ ~
st Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solls.co.uk, Email: ask@soils.co.uk. 11/12/22	1.20-1.65 1.20-1.65 1.20-1.65	8	SPT DSPT B	N=14							sandstone. GRADE IVa. (MERCIA MUDSTONE GROUP)	- - -	\$\bullet \tau \tau \tau \tau \tau \tau \tau \ta
co.uk, Em	-											-	~ _ ^ × _ o _ x x
: www.soils	_ 1.70 -	10	D									-	xoxo xx
52299, Web	2.00-2.40	11	UT _(UT100)	150 blows 88% recovery								- - -	x _ x
ax: 01977-5	2.40-2.50	12	D									- -	x _ x _ x _ x
7-552255, Fa	2.70	13	D									(3.70)	X
J. Tel: 0197	3.00-3.40		SPT	5,10/10,13,18,9							below 3.00m: becoming very stiff.	-	
, WF10 1N,	- 3.00-3.40 - 3.00-3.45	15 16	DSPT B	for 20mm								-	
t Yorkshire	- -											-	x _ x _ x _ xo _ xo
	3.70	17	D									-	Σ _ X - X _ X - X _ X
Street, Cast	4.00-4.37		SPT	6,8/13,20,17 for 65mm								- -	
Potteries, Pottery Street, Castleford, We	- 4.00-4.37 -	19	DSPT	-								- -	x
Potterie 												4.50	<u> </u>

ш.													
The		Boring Pro	ogress and	Water Ob	servations		Chise	lling / Slow F	Progress	Canaral	Damarl	,	
eford:	Date	Time	Borehole		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 Cenr	n\/	
!	13/09/22	16:44	1.90	1.90	200	Dry				2. Hand dug inspection pit		ıy.	
Hice	14/09/22	07:46	1.90	1.90	200	Dry				3. SPT hammer AR3104-2		.00%) ι	ısed.
Ö	20/09/22		10.30	None	N/R	3.00					` .	,	
anc	16/09/22		4.50	4.50	200	Dry							
ğ.	16/09/22		30.00	4.50	114	26.00							
무													
SIO													
<u>8</u>								,		All dimensions in metres	Scale:	1:25	
ctur	Method	Inspec	ction pit +	Plan	_,	ando 3000	+		nny Hutt +	Logged JAIton +	Checked		
2	Used:	Cable Po	ercussion -	+ Use	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 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 - 10:41 | TC9 |



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		2	of	16
								$\overline{}$	

Б. "		Sample	s & Testing	_	Mecha	anical	Log	j ∰ - ig	ē		Mate
Depth (m)	No	Туре	Results	TCF (%)	SCR (%)	RQD (%)	lf (mn	Backfill & Instru-mentation	Water	ness) L	Gra _l Leg
4.50-6.00 - - - -							ZI ZI ZI ZI ZI ZI ZI ZI ZI ZI ZI ZI ZI Z			AZCL. (MERCIA MUDSTONE GROUP) (0.70)	\ Z
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)	
6.00-7.50				*	 	X	_			6.00-6.15m: AZCL.	
- - - -				83	22	0				6.30-6.50m: Stiff reddish brown silty clay with occasional subangular fine to coarse gravel size mudstone lithorelicts.	
- - - - - -	24	D					NI 60 170) ::H:::		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	
7.50-9.00						X				discontinuity with frequent black specks. 7.34-7.62m: 85° undulating rough locally orangish brown stained discontinuity with frequent black specks.	
8.00 -	25	D		99	33	7				7.94-8.00m: 40° undulating rough black stained discontinuity 8.12-8.46m: 85° to 90° undulating smooth discontinuity with frequent black specks.	
- - - -										8.39-8.86m: 3 no parallel 50° closely spaced undulating smooth black stained discontinuities 8.60-9.00m: 80° to 90° undulating smooth rough black stained discontinuity.	
Bo	rina F	Progress	s and Water Ob	oserva	tions	· •		Chise	ellino	/ Slow Progress	_
	Time	Bore	hole Casing	Bore Diam (mi	hole neter	Wate Dept		From	T	To Duration (hh:mm) General Remarks	
Method	lnen	ection p	oit + Plar	nt .	Dar	ndo 3	000 -	 +	Dr	All dimensions in metres Scale: 1:25 illed Jonny Hutt + Logged JAlton + Checked	
	able	Percus:	sion + Use		Comac				Ву		Ā

		Boring Pro	ogress and	Water C	bservations		Chisell	ing / 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	
al Solls Ltu, Dianch Unive - va			·	·						All dimensions in metres	Scale:	1:25	
II ucture	Method Used:		tion pit +	Pla Us		ando 3000 acchio GEC		Drilled Jon By:	ny Hutt + Luke	Logged JAlton + By: RSenior	Checked By:		AGS



BOREHOLE LOG

Contract:			Client:		Borehol	e:		
EMG F	Phase 2			SEGRO			ВІ	H21
Contract Ref:	Start: 14	4.09.22 Gro	ound Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 16	6.09.22	75.56	E:445964.3 N:324644.9		3	of	16
							\neg	

			Samples	& Testing	N	Necha	anical	Log	∞ ¹ ë	ī		Depth	Material
(n	pth n)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru-mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
9.00-	.10.50 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.	-	
-								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.	- - -	
10.50)-12.00				*	*	*	-			10.35-10.50m: With very closely spaced randomly orientated undulating smooth and rough discontinuities with occasional black specks 10.50-10.55m: Moderately weak light grey siltstone.	- - -	
11.02	2-11.17	27	С		95	80	69	1			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	
- - - 11.56 -	6-11.76	28	С					NI			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	- - - - - - (1.48)	
12.00)-13.50					*	*	60 200			inclusion 11.38-11.42m: Extremely weak light greenish grey siltstone 12.00-12.20m: AZCL.	- - -	
-					87	47	17	 			12.20-12.30m: Thickly laminated. 12.30-12.50m: Drilling disturbed, recovered as clayey gravel. 12.50-12.65m: Thickly laminated. Stiff thinly and thickly laminated silty CLAY with frequent angular to subangular fine to medium	- - - - 12.65	xx
11.02	3-13.42	29	С					NI NI 90 NI 60 170			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 bedded stiff to very stiff light greenish grey clay. 13.08-13.15m: Thin bed of moderately weak light greenish grey siltstone.	13.15	X

	Doining	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress	C0	neral F	Domor	ko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	Ge	enerai r	Temai	KS	
					-								
									All dimensions	in metres	Scale:	1:25	
Method Used:	Cable Pe	tion pit + ercussion +	Plan Used		ando 3000 cchio GEC		Ву:	ny Hutt + Luke	_ 00	lton + Senior	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, Web.

BOREHOLE LOG

Contract:					Client:			Boreho	ole:		
	EMG Pha	se 2					SEGRO			BH	21
Contract Ref	:	Start:	14.09.22	Groun	d Level (m	AOD):	National Grid Co-ordinate:	Sheet:			
7	765514	End:	16.09.22		75.56		E:445964.3 N:324644.9		4	of 1	16
	Samples & Test	ting	Mecha	nical L	og ≝ ˌ ৣ	5			Depth	Mate	terial

			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					X	*	-			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		Chisel	ling / Slow F	Progress	General	Domorl	l.o	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	KS	
:			Вория	Борит	(11111)	Ворит							
,													
										All dimensions in metres	Scale:	1:25	
)	Method Used:		tion pit +	Plan Used		ando 3000 cchio GEC		Drilled Jon By:	ny Hutt + Luke	Logged JAlton + By: RSenior	Checked By:		AGS
L		Rota	rv Cored					R	amford	-	-		

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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			BH2	<u>?</u> 1
Contract Ref	:	Start:	14.09.22	Ground Level (m AC	DD):	National Grid Co-ordinate:	Sheet:			
7	'65514	End:	16.09.22	75.56		E:445964.3 N:324644.9		5	of 1	6
Depth	Samples & Tes	ting	Mecha	anical Log & . io		Description of Strata		Depth (Thick	Mate	

		Samples	s & Testing	N	/lecha	anical	Log	~ 무현	<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
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.	19.07	
- - 19.25-19.37 -	33	С					*			Bedding fractures: 0° to 15°, very closely to closely spaced, undulating, rough, clean, occasional black staining.	- -	
19.50-21.00				*	*	*	-			(MERCIA MUDSTONE GROUP) (stratum copied from 16.13m from previous sheet) 18.00-18.20m: Drilling disturbed. Recovered	-	
- _ 19.82-20.05 - - - - - - -	34	С		100	60	53	NI 120			NI as subangular coarse gravel and cobble size 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 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.	-(1.93) -	
21.00-22.50					*	*	300			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)	21.00	× × × × × × × × × × × × × × × × × × ×
- - - - - - - 22.15-22.45	35	С		95	73	43				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 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	[(1.80)	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	C	eneral I	Domor	ko	
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	G	enerari	Remai	KS	
š 📙			Depth	Depth	(mm)	Depth			(
<u>'</u>														
3														
5														
1														
1														
:										All dimension	ns in metres	Scale:	1:25	
)	Method Jsed:		tion pit +	Plan Use		ando 3000 cchio GEC		Drilled Jon By:	ny Hutt + Luke	_ 00	Alton + RSenior	Checked By:		AGS

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BOREHOLE LOG

Contract:					Client:			Borehol	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		6	of	16
	OI 0 T					1				$\overline{}$	

		epth (m) No Type Results TCR SCR RQD If (%) (%) (%) (mm) (mm) (mm) (mm) (mm) (m	∞ ' ë	 -		Depth	Material						
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	1 1
ali: ask@soils.co.uk. 11/12/22 - 10:42 TC9	22.50-24.00 - - - - - - - 23.52-23.74		С					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
7-552255, Fax: 01977-552299, Web: www.soils.co.uk, Ema	24.00-25.50 		С		97	36	25	NI			[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 discontinuity.	_(2.42)	
Potteries, Pottery Street, Castletord, West Yorkshire, WF10 1NJ. 1el: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11712/22 - 10:42 10:9	- - 25.50-27.00 - 25.55-25.79 - - - - - - - - -		С		97	77	69	NI 150 380		<u>↓</u>	discontinuity 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		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	
				, ,								
									AH 1:			
									All dimensions in metres	Scale:	1:25	
Method Used:	Cable Po	ction pit +	Plan Used		ando 3000 cchio GEC		Ву:	nny 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	le:		
	EMG Pha	se 2						SEGRO			В	H21
Contract Ref	: ·	Start:	14.09.22	Ground	Level	(m AC	DD):	National Grid Co-ordinate:	Sheet:			
7	'65514	End:	16.09.22		75.	56		E:445964.3 N:324644.9		7	of	16
	Camples 9 Test	lina	Maaba	nical I a	a -x	-						

			Sample	s & Testing	1	Mech	anical	Log	∞ 7 6	<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
- 10:42 TC9	27.00-28.50 27.28-29.46		С		97	80	60				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,	(4.78)	
Email: ask@soils.co.uk. 13					V	 		NI 150			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 27.18-27.21m: Weak light grey siltstone.	-	
01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, I	28.50-30.00 29.00-29.32	40	С		97	69	57	380			ight 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 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	20.00	
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							Y		<u>го° По° «</u>		Borehole terminated at 30.00m depth.	30.00	

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisel	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	\S	
0			·	•		•							
Ltd, bialici													
200										All dimensions in metres	Scale:	1:25	
	Method Inspection pit + Plant Dando : Used: Cable Percussion + Used: Comacchic					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:		Borehol	e:		
EMG Pha	se 2			SEGRO			В	H22
Contract Ref:	Start: 13.09.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 15.09.2 2	2	73.80	E:446085.7 N:324639.6		1	of	12

Ī			Sample	s & Testing	N	Mecha	anical	Log	■	5		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD	If (mm)	Backfill	Water	Description of Strata	(Thick ness)	Graphic Legend
	0.20	1	D		(70)	(70)	(70)	(11111)			TOPSOIL	(0.30)	17 · 31 · 17 · 31 · 17 · 13 · 17 · 13 · 17 · 13 · 17 · 13 · 17 · 13 · 17 · 13 · 17 · 13 · 17 · 13 · 17 · 13 · 17 · 13 · 17 · 13 · 17 · 17
12 128	0.20-0.50	2 101	B ES	1xT+1xJ+1xV							Firm dark brown slightly gravelly sandy SILT. Sand is fine to coarse, predominantly coarse. Gravel is subangular to subrounded fine to coarse of	0.30	** * * * * * * * * * * * * * * * * * *
12/22 - 10.4	0.60	102	ES	1xT+1xJ+1xV							\sandstone, mudstone and occasional quartzite. \int Stiff orangish brown, mottled grey, sandy gravelly silty CLAY. Sand is fine to coarse, predominantly	-	× × · · · · · · · · · · · · · · · · · ·
IIS.CO.UK. 11/	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	- -	×
IK, Email: аsк@su	1.20-1.65	5	UT _(UT100)	150 blows 67% recovery							Bolow 1.0011. Readish brown	- - -	× - × - × - × - × - × - × - × - × - × -
: www.solis.co.u	1.65-1.75 1.70	6 7	D D									-	x x
U.977-5522555, FdX. 01977-552289, Web. WWW.Sulis.Co.uk, Elliali. dsk(似Sulis.Co.uk. 17722 - 10:42 108	2.00-2.45 2.00-2.45 2.00-2.45	10 9	SPT B DSPT	N=22								(3.45)	× · · ×
	2.70	11	D									- - -	×
YORKSHIRE, WF 10 11NJ. 1 EI:	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								- - - -	**************************************
- F	3.70	15	D									4.00	× · · · · · · · · · · · · · · · · · · ·
olleel, c	4.00-5.00 4.00-4.37		SPT	5,11/14,26,10		1		1			Description on next sheet	- 4.00	
meries, Fouery street, Castleford, Wes	4.00-4.37	17 18	DSPT C	for 65mm	100	90	16	NI NI 110				-	

<u>n</u>												
The		Boring Pr	ogress and	Water Ob	servations		Chise	elling / Slow F	Progress	Cananal	Damadra	
stleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks	
astl			Depth	Depth	(mm)	Depth]		(1111.111111)	1. Position cleared using C	AT and Conny	
Ÿ	13/09/22	14:00	4.00	3.00	200	Dry	Í			2. Hand dug inspection pit		
<u>ice</u>	15/09/22	08:00	4.00	4.00	114	2.30	Í			3. SPT hammer AR3104-2		ısed.
Ď	15/09/22	15:15	20.00	4.00	114	16.00	Í				,	
anc												
, M							Í					
S Lī												
SOS										All dimensions in metres	Scale: 1:25	
ıctura	Method		ction pit +	Plan		ando 3000			ny Hutt +	Logged DNartey +	Checked	
ヹ	Used:	Cable P	ercussion -	+ Used	ପ: Coma	cchio GEC	J 205	By:	Luke	By: RSenior	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 - 10:42 | TC9 |

BOREHOLE LOG

Contract:				C	Client:			Boreho	le:		
	EMG Pha	se 2					SEGRO			Bl	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 & Test	tina	Mecha	nical I oc	,				.	Ι.,	

	_			_		<u>'</u>						1
		Samples	s & Testing	l N	/lecha	anical	Log	l ≣ l	<u>m</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	-	
5.00-6.50				•			NI NI 110			brown MUDSTONE. GRADE II. 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	(2.29)	
_ 5.50 - - - - -	20	D		100	87	37				randomly orientated planar and undulating smooth clean locally black stained discontinuities.(stratum copied from 4.00m from previous sheet) 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.	6.20	
6.30-6.50	21	С		X	*	X				fine to medium gravel 5.59-5.95m: 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	
- - - -	22	D								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.		
- - 7.35 - - -	23	D		100	97	43	NI 80 230			(MERCIA MUDSTONE GROUP) 6.50-6.58m: 40° undulating smooth 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.	-	
8.00-9.50 - - 8.33-8.44	24	С		-X	 	X				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	-	
				100	97	12				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 closely spaced randomly orientated undulating smooth clean locally black stained discontinuities.	- - - (5.11)	

		Boring Pro	ogress and	Water 0	Observation	s	Chisel	ling / Slow F	Progress	Caparal	Domor	l.o	
	Date	Time	Borehole	Casing	' Diameter	vvalei	From	То	Duration (hh:mm)	General	Remai	KS	
<u> </u>			Depth	Depth	(mm)	Depth			,				
Ĩ													
;											1		
<u>'</u>										All dimensions in metres	Scale:	1:25	
)	/lethod Jsed:		ction pit +	Pla • Us		Dando 3000 acchio GEO		Drilled Jon Bv:	ny Hutt + Luke	Logged DNartey + Bv: RSenior	Checked Bv:		MGS

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 - 10:42 | TC9 |



BOREHOLE LOG

Contract:			С	lient:			Boreho	le:		
	EMG Phase 2					SEGRO			ВІ	H22
Contract Ref:	Start:	13.09.22	Ground L	_evel (m	AOD):	National Grid Co-ordinate:	Sheet:			
76551	4 End:	15.09.22		73.80		E:446085.7 N:324639.6		3	of	12
C-	mples ⁰ Testing	Maaba	nical Lag							

		Samples	& Testing		Mech	anical	Log	I≣I	5				Depth	Mate
Depth	NI-	T	Daarilla	TCR	SCR	RQD	If	Backfill	Water	D	escription of Strata		(Thick	Gra
` '	No	Туре	Results	(%)	(%)	(%)	(mm	1) "	_				ness)	Leg
9.00	25	D						1///			m: 70° undulating smooth	black		
								1///1		ed discontir				
				100	97	12		1///			mm diameter light grey red	uction		
				100	",	'-		1///1	spot		m: 10° undulating smooth	hlack		
								1///		ed discontin		DIACK		
9.50-11.00				—X	$+\mathbf{I}$	+		K///			Thick laminae (20mm) with	fine to		
9.50-11.00				1 [ΙŢ	T		1///1	med	ium gravel s	ize siltstone inclusions.	-		
								1///		. 7.80-7.93r	n: 2 no. very closely space	ed 30°		
								1///1			oth discontinuities with a little	e clay		
								1///		ar on surfac	es. : NI with extremely closely s	naced -		
								1///1				mooth -	_	
10.00	26	D						[///]			ith a little clay smear on surfa			
							NI	1///1			Greenish grey siltstone.			
				100	90	65	80 230	.[///]			n: Extremely weak reddish			
				100	".	"	230	' <i>\</i> ///			extremely closely spaced ran	domly		
								1///1			ntinuities, 1mm clay infill.	.loting -		
								1/2/2			m: 30° to 70° curved undual nined discontinuity.	liaurig		
								1///1			m: 60° undulating smooth	black		
l								1/2/1	stair	ed discontir	uity.	-		
10.75-10.94	27	С						1///			m: 85° to 90° undulating s	mooth _		
		-						1///1	blac	k stained dis	continuity.			
				₩	₩	₩		K ///	:	8.65-8.71m	: 2 no. parallel very closely s	paced		
11.00-12.50				A	A	A		1///			th black stained discontinuity		-	
								[///]	 etair	ed discontir∟e	5m: 60° undulating rough	DIACK -		
								1///			30m: 3 no. parallel 70° to	o 85°		
								1///1	extre	emely closel	y spaced undulating smooth	clean	11.40	
							+	-1///			ned discontinuities.	+	11.40	
44.50		_					ΙŢ	1///1			weak thinly to medium be	edded -		
11.50	28	D						[22]			UDSTONE. GRADE II.			
								1///			es: Closely spaced, 0° t nooth with frequent		(0.75)	
				100	85	50	NI NI	1///		penetrative		black	(0.75)	
					l ,		40	1///			STONE GROUP)			
								1///1			from 6.29m from previous sl	heet)		
								1///			: Drilling disturbed, NI, reco	vered	-	
10 15 10 00							<u> </u>	-1///1		ravel.	0	100	12.15	
12.15-12.32	29	С					I 📬	1///			n: Stiff clay with 50% lithoreli 10.02m: 15° undulating			
							Ń	1///1			10.02m. 15 undulating 1 1mm clay on surfaces.	rougn	(0.45)	
							100				m: Occasional medium grav	11 1	()	
12.50-14.00				$+\mathbf{r}$	 	- Y-	160	' <i>\///</i> 1		one inclusio				
12.50-14.00				ΙĪ	[T	<u> </u>	-1///1	Н	. 10.41-10.6	60m: 70° to 80° undulating	rough	12.60	
							Ī	K///		n discontinu		. -		
								1///1			31m: 70° to 80° undulating	rough		
								1///	clea	n discontinu	ity. '0m: 80° to 90° undulating	rough		
								1///1	blac	k stained dis		rougn		
13.00	30	D		100	96	47	NI 60	[///]			very thinly bedded reddish	brown	-	
							180	1///1			ickly interlaminated with (sof			
								1///			lics of extremely weak mud			
								1///		de III.	,	l l		
								1///1			es: Very closely spaced, 0°	to 5°, }		
								///	∐plan	ar and undu	lating, smooth, clean.			
Ron	ing F	Progress 1	and Water Ob	servet	ione			Chieo	ling / Slow	Progress				
DOI	ii iy r	Boreho		Boreh	nole	Wate		OHISE	ig / 3i0W	Duration	General F	Rema	rks	
Date T	ime	Depti		Diam	eter	Dept	- 11	From	То	(hh:mm)				
		Вори	п Верит	(1111	11)	Всра								
														_
							- 11		1	1	I All dimensions in metres (=
Method	lne:	ection pit	t + Plan	<u> </u>	Dar	ndo 30)))	_	Drilled	onny Hutt +	All dimensions in metres S Logged DNartey +	Scale: Checke	1:25	

	Boring Pr	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	15	
8												
i I												
									All dimensions in metres	Scale:	1:25	
Method Used:	Cable P	ction pit + ercussion	Plan Used		ando 3000 cchio GEC		Ву:	ny Hutt + Luke	Logged DNartey + By: RSenior	Checked By:		AGS

BOREHOLE LOG

Contract:					Client:			Boreho	le:	
	EMG Pha	ise 2					SEGRO			BH22
Contract Ref	:	Start:	13.09.22	Ground	d 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
Donth	Samples & Tes	ting	Mecha	nical Lo	pg	je j			Depth	Material

		_			_		_					
		Samples	& Testing		/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
13.50	31	D		' '	1	, -,		///		(MERCIA MUDSTONE GROUP)	†	
. 13.30	31							[///]		11.50-11.68m: Stiff thinly to thickly laminated	-	
.								///		reddish brown clay with occasional mudstone	_	
				100	96	47		K///		lithorelicts.		
						''		1///1		11.88-12.17m: Stiff thickly laminated reddish	Ī	
								////1		brown mottled light grey clay.	-	
-								///			_	
14.00-15.50				♣	•	₱		///		Extremely weak thinly bedded reddish brown		
								K///		MUDSTONE. GRADE II.	Ī	
								////		Bedding fractures: Closely spaced, 0° to 5°,	(0.40)	
								////			(3.40)	
								///		surfaces.		
14.42-14.57	32	С						K.Z.Z.		(MERCIA MUDSTONE GROUP)		
14.42 14.07	02							K///I		12.66-12.71m: 2 no. parallel extremely closely	-	
								////		spaced undulating rough clean discontinuities.	-	
.							NI	////		12.71-12.75m: 35° undulating smooth		
				100	92	53	60	///		discontinuity with a little clay smear on surfaces.		
					-		180	KZZł		12.72-13.20m: 80° to 90° undulating / stepped		
							l i	K///I		rough locally black stained discontinuity.	-	
								////1		12.90-12.92m: 5° to 15° undulating rough	_	
15.00	33	D						///		black stained discontinuity.		
								<i>Y.Z.Z.</i>		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°	-	
								[///]		undulating rough locally smooth mainly clean	_	
				₩	V	₩		///		locally with a little clay smear on surfaces.		
15.50-17.00				A	—	A		K///		13.42-13.62m: Stiff very thinly bedded reddish	-	
								////		brown clay with occasional angular to subangular	-	
								[///]		fine to medium gravel size lithorelics.	-	
.								///		Extremely weak to very weak very thinly to thinly		
								K///		bedded reddish brown MUDSTONE. GRADE II.		
15.90	34	D						////1		Bedding fractures: Very closely to closely spaced,	16.00	
- 10.00	•	_					+	[///]		$_{\parallel}$ 0° to 5°, planar and undulating, smooth and rough, $_{\parallel}$	10.00	
							ΙŢ	///		clean with occasional clay smear on surfaces.	-	
								K///		(MERCIA MUDSTONE GROUP)		
				100	90	62		////		(stratum copied from 12.60m from previous sheet)		
16.28-16.43	35	С				-		レンン		13.62-13.64m: Occasional 5 to 10mm	1	
								///		diameter grey reduction spots.	-	
								K///		13.63-13.69m: 50° planar smooth clean	_	
								////		discontinuity.		
								レンン		13.65-13.75m: 40° planar smooth clean		
								KZZI		discontinuity with 1mm soft clay on surfaces.	-	
								K///I		13.78-13.83m: 85° undulating smooth black	-	
								1/2/21		stained discontinuity.	-	
_				_₩			NI	レンン		13.80-14.00m: 85° to 90° undulating smooth	L	
17.00-18.50				A	4	1	80	K.Z.Z.		black stained discontinuity.		
							200	K///		14.00-14.15m: Drilling disturbed, NI,	-	
								1///1		recovered as gravel.	-	
								[///1		14.15-14.32m: 85° to 90° undulating rough	L	
								1//		black stained discontinuity.		
					1			K././		14.30-14.45m: Occasional fine to medium		
				100	93	39		1////		gravel size light grey siltstone inclusions.	-	
					_			1/2/21		1 14.57-14.66m: 85° to 90° undulating smooth	-	
								レンン1		black stained discontinuity.	L	
17.68-17.78	36	С						1//		14.60-14.90m: Extremely closely to very		
								K././		closely spaced randomly orientated undulating	-	
								1////		smooth black stained discontinuities.	-	
·											(4.00)	

	Boring Pr	ogress and	Water (Observations	i	Chiselli	ing / Slow F	rogress	General	Domark	/ C	
Date	Time	Borehole Depth	Casino Depth	' Diameter	Water Depth	From	То	Duration (hh:mm)	General	Remair	(5	
									All dimensions in metres	Scale:	1:25	
Method Used:		ction pit + ercussion -			ando 3000 acchio GEC		Drilled Jon Bv:	ny Hutt + Luke	Logged DNartey + 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 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 Ph	ase 2						SEGRO			В	H22
Contract Ref:	Start:	13.09.22	Ground	Level (n	n AOD)):	National Grid Co-ordinate:	Sheet:			
765514	End: 1	15.09.22		73.80)		E:446085.7 N:324639.6		5	of	12
0 1 0 7					T T			1			

		Samples	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)	
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.	-	
18.50 - 20.00				*	*	*				15.14-15.15m: Extremely weak siltstone 15.45-15.50m: Extremely weak siltstone 15.55-15.65m: Moderately weak thickly laminated greenish grey siltstone.	-	
_ _ 18.80-18.90 _	38	С					NI 80			15.65-16.00m: Extremely weak thickly laminated reddish brown mudstone	- -	
-				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.	-	
19.50	39	D								16.53-16.56m: 15° undulating smooth yellow brown stained discontinuity 16.54-16.60m: 80° undulating smooth clean discontinuity.	- -	
-							V			16.60-16.64m: Drilling disturbed, NI, recovered as gravel 16.65-16.90m: 75° to 85° undulating rough yellow brown stained discontinuity.	20.00	
- -										16.77-16.84m: 40° undulating smooth clean discontinuity 16.90-17.00m: AZCL 17.15-17.32m: 60° to 85° curved undulating	- - -	
- - -										rough clean discontinuity 17.28-17.31m: 70° undulating smooth yellow brown stained discontinuity 17.31-17.40m: Randomly orientated extremely	-	
-										closely spaced undulating rough yellow brown stained discontinuities 17.58-17.62m: 15° undulating smooth yellow brown stained discontinuity.	- - -	
- - -										17.72-17.80m: Occasional 2-5mm diameter grey reduction spots 17.75-17.80m deph: 30° undulating smooth yellow brown stained discontinuity.	-	
- -										17.82-17.89m: 75° to 85° undulating smooth yellow brown stained discontinuity 17.94-18.02: 60° undulating smooth yellow brown stained discontinuity.	- - -	
- - -										Very weak thinly bedded reddish brown MUDSTONE. GRADE II. Bedding fractures: Closely spaced, 0° to 5°, planar and undulating an autocase.	- - -	
- - -										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.	-	

lhe		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	Caparal	Domorl	.	
stletord:	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	(5	
Solls Ltd, Branch Office - Cas			Ворит	Бори	(11111)	Вори				All dimensions in metres	Scale:	1:25	
Structura	Method Used:		tion pit +	Plan Use		ando 3000 cchio GEC		Drilled Jo By:	nny Hutt +	Logged DNartey + By: RSenior	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 - 10:42 | TC9 |

Used: Cable Percussion + Rotary Cored

Used: Comacchio GEO 205 By: Luke **RSenior**





BOREHOLE LOG

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

			Sample	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)	Graphic Legend
ries, 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											l 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: 80° 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 19.81-19.85m: 50° undulating smooth yellow brown stained discontinuity 19.83-19.87m: 20° planar 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	Progress	General	Domork	· 0	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remain	.5	
					-							
									All dimensions in metres	Scale: 1	1.05	_
Method Used:		tion pit + ercussion -	Plan Used		ando 3000 cchio GEC		⊥ Drilled Jor By:	│ nny Hutt + Luke	Logged DNartey + By: RSenior	Checked By:		AGS
OSCG.		er Cassion	- 0300	a. Coma	CCIIIO GEC	203		Luke	Dy. Kaeilloi	U.	6	

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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: 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	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

		•	Liid.							-	<u> </u>
Donth		Sample	s & Testing			anical	Log ⊗ jë	ter	D	Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	It (mm) Backfill & Backfill & mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
0.10 0.10 - 0.10-0.30	1 101 2	D ES B	1xT+1xJ+1xV						TOPSOIL	(0.40)	\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(1
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)	
1.00	103	ES	1xT+1xJ+1xV				•••		Very stiff reddish brown slightly sandy slightly gravelly CLAY with frequent laminae (<10mm) of	- 1.00	<u> </u>
1.20		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 fine grained sandstone. GRADE III verging	(1.00)	
1.50-1.60	7	D							towards GRADE IVb. (MERCIA MUDSTONE GROUP)	_	
1.70	8	D							(MERCIA MODSTONE GROOP)	- -	
2.00-2.45 2.00-2.45 2.00-2.45	10 11	SPT DSPT B	N=40						Very stiff reddish brown slightly sandy slightly 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	2.00	
2.50-2.88		SPT	8,12/13,14,23 for 75mm						very weak mudstone lithorelics and weak fine grained sandstone. GRADE IVb. (MERCIA MUDSTONE GROUP)	(1.30)	
- 2.50-2.88 - 2.50-3.00	13 14	DSPT B								-	
3.00-3.37		SPT	9,14/15,17,18							_	
3.00-3.37	16	DSPT	for 70mm							3.30	
3.30-4.80									AZCL. (MERCIA MUDSTONE GROUP)	3.50	AZCL
	0.5	-		80	33				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)	- - - - -	
_3.90 _ _ _ _ _	25	D							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)	

Ф											
The		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	Conoral	Domorko
Castleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
astl			Depth	Depth	(mm)	Depth			(1111.111111)	1 Position algored using C	AT and Conny
Ö	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	
ils Ltd, Branch Office	14/09/22		15.30	4.00	114	-				3. SPT hammer AR3104-2	
ural Soils										All dimensions in metres	Scale: 1:25
tructura	Method Used:		ction pit +	Plan Used		ando 3000 ·	I	Drilled Bv: J o	nnv Hutt	Logged DNartey + By: DNevlon	Checked By:

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 - 10:43 | TC9 |



EMG Phase 2 SEGRO Contract Ref: Start: 13.09.22 Ground Level (m AOD): National Grid Co-ordinate: Sheet:	BH23
Contract Ref: Start: 13 00 22 Ground Level (m AOD): National Grid Co-ordinate: Sheet:	
others. 13.09.22 Grand Edver (11710B). Indicate of Grands.	
765514 End: 14.09.22 70.77 E:446319.7 N:324654.7 2	of 16

		Sample	s & Testing	ı	Mecha			Į.				Depth	Mate
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Backfill Instru	Water		De	escription of Strata	(Thick ness)	Grap Lege
4.80-6.30 5.20	26	D		80	33	0			Extrem MUDS and v GRAD (MERG	CIÁ MUDS nely weak STONE w ery thin E II vergir CIA MUDS	greenish grey SILTSTONE. STONE GROUP) reddish brown thickly lamin: ith very closely spaced lam beds (<25mm) of gravelly of g towards GRADE III. STONE GROUP)	inae clay (0.65) - 5.45	X X X X X X X X X X X X X X X X X X X
				97	21	0			SILTS (MERO Very gravell mudsto (MERO Extrem	TÓNE. CIA MUDS stiff reddi y CLAY. one deriv one lithore CIA MUDS nely weak	greenish grey thinly laming STONE GROUP) sh brown lightly sandy slig Sand is fine to medium ed. Gravel is fine to med lics. GRADE III. STONE GROUP) reddish brown thinly lamin RADE II verging towards GRA	ghtly and lium 6.10	× × × · · · · · · · · · · · · · · · · ·
6.30-7.80					 	X			\III. (MER(AZCL.	CIA MUDS	STONE GROUP) STONE GROUP)	(0.70)	AZ
6.80-7.17		SPT	2,9/11,14,25 for 70mm	53	18	0			Extrem GRAD		reddish brown MUDSTO	7.00 NE.	
7.20	27	D							(MER)	CIA MUDS 00-7.40m: 7.40-7.45n 7.45-7.55r	STONE GROUP) Thinly laminated. Thinly laminated greenish in: Extremely weak greenish in	· ·	
7.80-9.30				*	X	X			thinly I	aminated : 55-7.85m: 7.85-8.20r	siltstone. Thickly laminated. m: Very closely spaced rando undulating fractures with b	omly -	
8.40	28	D		100	9	0			planar randor with da & silt.	bedding f nly orient ark brown : 3.65-8.70n	a: Extremely closely spaced ro fractures and very closely spa ated rough undulating fracti staining on surfaces. h: Thinly laminated greenish of Recovered as gravel.	aced L ures	
Во	ring F	Progress	s and Water Ob	servati	ions	'	Chise	ellinç	g / Slow P	rogress	0 15		
	Time	Bore Dep	hole Casing	Boreh Diame (mm	ole eter	Wate Dept	II From	Ţ	То	Duration (hh:mm)	General Re	emarks	
Method	Inen	ection p	oit + Plant	<u> </u>	Dan	ndo 30	00 +	Dr	rilled			cale: 1:29	5
		Percus:					6EO 205	By		nny Hutt	By: DNeylon B		A

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress		General I	Domor	de	
asimina	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Generali	Remai	K5	
- 201110														
Jailei														
Ollo Ett.														
<u>5</u>										All dimens	ions in metres	Scale:	1:25	
ווחכוניו	Method Used:		ction pit + ercussion ·	Plan Use		ando 3000 acchio GEC		Drilled By: J o	nny Hutt	Logged By:	DNartey + DNeylon	Checked By:		AGS

12.70

(0.50)

13.20

(0.60)

Extremely weak reddish brown MUDSTONE, recovered as sandy angular to subangular fine to

medium gravel. GRADE III.

Description on next sheet

(MERCIA MUDSTONE GROUP)



STRUCTURAL SOILS

for 60mm

77

33 | 28

Contract:							Client:				Boreho			
		EMG	Phase 2							SEGRO			BH	23
Contract Ref	f:		Start:	13.09	9.22	Grour	d Level (m AOE):	National Grid Co-ordinate:	Sheet:			
7	765	514	End:	14.09	9.22		70.7	7		E:446319.7 N:324654.7		3	of	<u> 16</u>
		Samples 8	& Testing	ľ	Mecha	anical L	.og <u></u> ≤	tion				Depth	Ma	teri
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%) (og Bockfill & Bockfill	mentatio Water		Description of Strata		(Thick ness)	Gra Leç	
9.30-10.80				100	9	0			orie stai Exti GR. (ME fron 	. 8.95-9.40m: Very closely spaced rentated rough undulating fractures withing on surfaces. remely weak reddish brown MUDSTADE II. ERCIA MUDSTONE GROUP) . 7.00-7.40m: Thinly laminated.(straturm 7.00m from previous sheet) . 9.40-9.45m: Extremely weak latenish grey siltstone. . 9.45-9.70m: Very closely to extremely aced randomly orientated rough plantated.	th black STONE. ncopied minated r closely	- - - - - - - (5.70)		
10.55	29	D		97	35	11			surf surf san med san med san	dulating fractures with black stain faces. 9.90-9.95m: Thinly laminated green distone, recovered as subangular dium gravel. 10.35-10.40m: Thinly laminated green distone, recovered as subangular dium gravel. 10.40-10.65m: Stiff thinly laminated wn slightly sandy slightly grayelly CLA	ing on ish grey fine to ish grey fine to reddish Y. Sand	- - - - -	• • • • • • • • • • • • • • • • • • • •	
10.80-12.30)								to litho	ine to coarse múdstone derived. Grave medium angular to subangular m orelicts. GRADE III. . 11.15-11.45m: Recovered as gravel .		- - - -		
11.70	30	D		77	33	28		<u>‡</u>	orie stai spa	. 11.45-12.70m: Very closely spaced rentated rough undulating fractures withing on surfaces and closely to very aced bedding fractures with black and ining on surfaces.	th black closely	- - - - -		
12.30-13.80 12.30-12.43		SPT	25/50	X	X	X						-		

		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	K5	
5													
2													
í													
5										All dimensions in metres	Scale:	1:25	
2	Method Used:	Cable Po	tion pit + ercussion -	Plan Used		ando 3000 cchio GEC		Drilled By: J o	nny Hutt	Logged DNartey + By: 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 - 10:43 | TC9 |

13.20

31

D



Contract:				Client:		Boreho	le:		
	EMG Pha	se 2			SEGRO			Bŀ	123
Contract Ref:		Start:	13.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
76	65514	End:	14.09.22	70.77	E:446319.7 N:324654.7		4	of	16
	Samples & Test	ting	Mecha	anical Log ∞ , 5			Denth	Ma	

	050	714	End:	14.0	J.ZZ		70.			L. 7700	19.7 N.324654.7		OT I
Depth		Samples	s & Testing			anical RQD	= ⊃	entation Water		De	escription of Strata	Depth (Thick	
	No	Туре	Results	(%)	(%)	(%)	(mm) Reg Reg	W Well				ness)	
									Extrem GRAD		reddish brown MUDSTON	IE	
				77	33	28			Fractu	res: Ver	y closely spaced, random		
13.80-15.30				 	 	 			surfac		h, undulating, black staining o	·· /	× ×
									(MER	CIA MUDS	STONE GROUP) from 13.20m from previous shee	(0.35)	1^ ^
									L.		eenish grey thickly laminate	ed 14.15	× × × × × × × × × × × × × × × × × × ×
									SILTS	TONE.	STONE GROUP)	\bigcap	
											reddish brown MUDSTON	<u>-</u> / [
									GRAD		ely spaced, randomly orientate	d	
14.60-14.95	32	С		100	37	37			rough,	undulating	g, black staining on surfaces.	u,	
	-								(MER	CIA MUDS	STONE GROUP)	-	
												(1.50)	
												F	
												-	
				V	V	 v							
15.30-16.80				1	1	1						-	
												-	
15.65-15.90	33	С							Weak	to mediu	m strong greenish grey fine	15.65	
13.03-13.90	33								mediu	m grained	SANDSTONE.		: : : : :
											STONE GROUP) : Greenish grey silt.	(0.65)	
				100	52	40					0 ,	– – – – –	: : : : :
						$ \cdot $							
									Extrem	nelv weak	reddish brown MUDSTONE wi	16.30	:::::
									lenses	of greenis	sh grey siltstone. GRADE II.	"	
											STONE GROUP) m: NI, recovered as gravel.	(0.65)	
									1	6 70-16 8	Om: Medium strong greenish gr	-v	
						_			sandst		on mediam eacing greenien gre	1	
									Very w	veak green	ish grey SILTSTONE.	16.95 -	× × × ×
									(MÉRO	CIA MUDS	STONE GROUP) m: 45°, rough undulating fractur	ہے ا	\times \times \times
											sh brown clay.	-	× × > × × >
												(0.85)	× × × × × × × × × × × × × × × × × × ×
												-	× × ×
									17	7.60-17.70	m: Reddish brown mudstone.	-	X
												17.80	× × ×
17.90	34	D							Descri	iption on n	ext sneet	-	
Bor	ring F		and Water Ob					selling	g / Slow P	rogress	General Rer	marke	
Date T	Γime	Borel Dep		Boreh Diam	eter	Wate Depti	II ⊢rc	m	То	Duration (hh:mm)	- Cilciai Nei	iidiiN3	
		Det	оп Берит	(mn	n)	Бери				, ,			
					- 1		11	- 1			All dimensions in metres Coal	. 4.0	_
Method	Insn	ection p	oit + Plan	nt	Dai	ndo 30	000 +	 Dr	illed		All dimensions in metres Scal Logged DNartey + Che	e: 1:2 ecked	5 A(

<u>D</u>		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow l	Progress	Co	eneral F	Domor		
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	Ge	enerai r	Temai	KS	
5 - 52			,	·										
5														
į,														
SI COILS										All dimensions	in metres	Scale:	1:25	
ון תכונו	Method Used:		tion pit + ercussion ·	Plar Use		ando 3000 · acchio GEC	I	Drilled By: J o	onny Hutt		lartey + Neylon	Checked By:		AGS



BOREHOLE LOG

Contract:					Client:			Borehol	le:		
	EMG Pha	se 2				SEGRO				Bŀ	123
Contract Ref:		Start:	13.09.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	:	Sheet:			
7655	14	End:	14.09.22		70.77	E:446319.7 N:3246	654.7		5	of	16
	Samples & Test	ina	Mecha	anical Lo	oa ∞ . 5 .				Donth	Ma	torial

		14	End:	14.09	9.22		/0.//		E:446319.7 N:324654.7	5	of 16
		Samples	s & Testing	1	Mecha	anical	Log ∞, 5	_		Depth	Mater
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If Backfill & 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. (MERCIA MUDSTONE GROUP)	(0.50) 18.30 (0.40) 18.70	AZC
				73	29	0			Extremely weak reddish brown thinly laminated MUDSTONE. GRADE II. Bedding fractures: Extremely closely spaced, rough, planar. (MERCIA MUDSTONE GROUP)	(0.60)	
19.40	35	D							Stiff reddish brown sandy CLAY. Sand is fine to medium and mudstone derived. GRADE IVb. (MERCIA MUDSTONE GROUP)	(0.40)	
								-	Extremely weak greenish grey SILTSTONE.	19.70	× × ×
19.80-21.30				+	X	X			(MERCIA MUDSTONE GROUP) 19.80-19.85m: Stiff reddish brown sandy clay.	(0.30)	× × :
				100	0	0			orientated fractures with yellow staining on surfaces. 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)	× × × ×
									Extremely weak reddish brown MUDSTONE.	21.00	
21.20-21.30 21.30-22.80	36	С							GRADE II. (MERCIA MUDSTONE GROUP)	- (0.65)	
									21.50m: Firm reddish brown clay.	21.65	
22.05-22.25	37	С		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 greenish grey siltstone. Bedding fractures: Closely spaced, rough, planar, infilled with reddish brown clay.	-	

2		Paring Dr	arasa and	\Matar (hoon (of	tiono		Chical	ling / Clay	., D	rograss					
		Boring Pro	ogress and	vvaler				Criisei	ling / Slov	w P	rogress		General I	Remar	ke	
	Doto	Time	Borehole	Casin	g Borel Diam		Water	From	То		Duration		Ochiciani	Ciliai	NO	
	Date	Time	Depth	Depth	ı (mr		Depth	From	10		(hh:mm)					
,																
3																
5																
i																
1																
1												A 11 11		<u> </u>		
,												All dimens	ions in metres	Scale:	1:25	
) I	Method Used:		tion pit +		ant sed: c		ando 3000		Drilled Bv:	lor	nny Hutt	Logged Bv:	DNartey +	Checked Bv:		200

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, Web



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:			
765514	End:	14.09.22		70.77	E:446319.7 N:324654.	7	6	of	16

	_					•					
		Samples	s & Testing		Mecha	anical	Log ≝ ˌ ౖ <u></u>	٦		Depth	Material
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Le lustru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
22.80-24.30				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) (stratum copied from 21.65m from previous sheet) 22.50-22.55m: Recovered as clayey gravel 22.90-23.15m: Recovered as sandy clayey gravel.	(1.85)	
- - - - 23.65-24.00 -	38	С		97	67	43			Extremely weak reddish brown MUDSTONE, verging towards very stiff clay. GRADE II. (MERCIA MUDSTONE GROUP)	23.50	
- - - 24.30-25.80 -				*	¥	X			Very stiff reddish brown slightly sandy CLAY. GRADE IVb.	24.50	
- - -				100	20	0			(MERCIA MUDSTONE GROUP) Extremely weak greenish grey thinly interbedded SILTSTONE and fine grained SANDSTONE. Bedding fractures: Closely spaced, rough, undulating, infilled with sandy fine to medium gravel of siltstone.	-24.85 -(0.35) -25.20	× × × × × × × × × × × × × × × × × × ×
- _ 25.40-25.65 - -	39	С							Very stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to medium mudstone derived. Gravel is angular fine to coarse mudstone lithorelics. GRADE III verging towards GRADE II. (MERCIA MUDSTONE GROUP)	(1.15)	
25.80-27.30 				Å		i i				26.35	
				100	20	0			Extremely weak greenish grey thickly interlaminated SILTSTONE and fine grained SANDSTONE. Bedding fractures: Closely spaced, rough, undulating, infilled with sandy fine to medium of the sandy fine	-(0.35)	
. 26.85-27.15		С							gravel. (MERCIA MUDSTONE GROUP)	-	

Γ		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress		General l	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)		General	Remai	KS	
: H			Берит	Берит	(mm)	Берит			, ,					
										All dimens	ions in metres	Scale:	1:25	
	/lethod	Inspec	tion pit +	Plan	t Da	ando 3000	+	Drilled		Logged	DNartey +	Checked		
. l	Jsed:		ercussion	+ Used	d: Coma	cchio GEC	205	By: J o	nny Hutt	By:	DNeylon	Ву:		AGS
ь.		Rotal	rv Cored									-		

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 - 10:43 | TC9 |



Contract:			Client:		Borehol	e:		
EMG	Phase 2			SEGRO			В	H23
Contract Ref:	Start:	13.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 1	14.09.22	70.77	E:446319.7 N:324654.7		7	of	16
Camaniaa	0 Tastina	N 4 I	sisallar v C					

		Sample	s & Testing	ı	Mech	anical	Log ⊌ <u>, </u> <u> </u>	ي			<u>'</u>	Depth	Mate
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If Sackfill & Common Packfill	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 mudstone s fine to coarse angular mudstone DE III verging towards GRADE II. STONE GROUP) from 26.70m from previous sheet	e - (0.65)	
27.60-27.80	41	С		93	71	50			closel	y spaced, en 5 to 20r	ddish brown MUDSTONE with planar, gypsum veins, typically mm thickness.	۱ -	
28.80-30.30 28.80-29.05		С		X	V	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 extremely	/ - -	
- - - -				•		V						- 30.32	
- - - -												-	
	ring I	Progress	and Water Ob	oservat	ions		Chis	ellin	g / Slow F	Progress	0		
	Time	Bore	hole Casing	Boreh Diami (mn	nole eter	Wate Dept	From		То	Duration (hh:mm)	General Ren	narks	
											All dimensions in metres Scale		
Method Used: C	able	ection p Percuss	sion + Use			ndo 30 chio (000 + GEO 205	D B	rilled y: J o	nny Hutt	Logged DNartey + Check By: By:	ked	A

<u> </u>		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress		General I	Domor	de	
asimina	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Generali	Remai	K5	
- 201110														
Jailei														
Ollo Ett.														
<u>5</u>										All dimens	ions in metres	Scale:	1:25	
ווחכוניו	Method Used:		ction pit + ercussion ·	Plan Use		ando 3000 acchio GEC		Drilled By: J o	nny Hutt	Logged By:	DNartey + DNeylon	Checked By:		AGS



BOREHOLE LOG

Contract:				Client:		Borehole	e:		
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

			Sample	s & Testing	N	Иесhа	anical	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
	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							TOPSOIL	(0.40)	\(\frac{1}{2}\), \(\frac{1}\), \(\frac{1}{2}\), \(\frac{1}{2}\), \(\frac{1}{2}\), \(\frac{1}\), \(\frac{1}{2}\), \(\frac{1}{2
-	0.20-0.20 0.40-0.40 0.40-1.00	5 7 9	ES D B	1xT+1xJ+1xV							Firm light orangish brown gravelly CLAY. Gravel is angular to subrounded fine to medium of	- 0.40	<u> </u>
	0.50-0.50	8	ES	1xT+1xJ+1xV							mudstone.	(0.60)	
-	1.00-1.00	10	ES	1xT+1xJ+1xV					∴ ∴∃∙∴∙		Firm thinly laminated orangish brown, mottled grey,	1.00	<u> </u>
,	1.20-1.65 1.20-1.65	12	SPT DSPT	N=49							slightly sandy gravelly ČLAY. Sand is fine to medium. Gravel is fine to medium of mudstone. 1.00-1.20m: possible mercia mudstone. Possible extremely weathered to destructured	1.20	* · · · × · · · · · · · · · · · · · · ·
.	1.20-1.70	13	В								mudstone. Dense greenish grey gravelly silty fine to medium SAND. Gravel is angular and subangular fine to	(0.80)	
	1.70	14	D								coarse strong siltstone. Frequent fine and medium gravel size pockets and lenses (<15mm) of brown silty sand. GRADE III.	-	× 0
F	2.00	15	E0								(MERCIA MUDSTONE GROUP)	2.00	:0:
.	2.00-2.45 2.00-2.45 2.00-2.50	16 17	ES SPT DSPT B	N=45							Very stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to medium and mudstone derived. Gravel is angular to subangular fine mudstone lithorelics. GRADE IVa. (MERCIA MUDSTONE GROUP)	_	
. -	2.50	18	D									-	
												(1.50)	
-	3.00 3.00-3.34	19	ES SPT	3,9/14,23,13								-	
.	3.00-3.45 3.00-3.50	20 21	DSPT B	for 43mm								0.50	
-	3.50-5.00 3.50 3.50-3.78	22	D SPT	7,15/26,24			—				Extremely weak reddish brown MUDSTONE. Recovered as slightly clayey sandy fine to coarse angular gravel. Occasional thin and thick laminae	3.50	
	3.50-3.95	23	DSPT	for 50mm	100	0		3			of grey siltstone. Fractures: Randomly orientated, very closely spaced, undulating rough to undulating smooth, abundant black staining.	-	
,								15			abundant black staining. (MERCIA MUDSTONE GROUP) 3.50-3.75m: NI, clayey sandy gravel. 4.00-4.23m: NI, silty sandy gravel.	-	
												-	

The		Boring Pro	ogress and	Water Ob	oservations		Chise	lling / Slov	w Progress	Caparal	Domorko		
stleford:	Date	Time	Borehole		Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks	•	
asti			Depth	Depth	(mm)	Depth			(1111.111111)	1 Desition elected using C	AT and Conny		
s Ltd, Branch Office - Ca	14/09/22 15/09/22		9.00 9.00	3.50 3.40	114 114	Dry Dry	3.30	3.50	00:30	1. Position cleared using C 2. Hand dug inspection pit			
Soil										All dimensions in metres	Scale: 1:	25	
Structura	Method Used:		ction pit +	Plar Use		o 2000 Mai icchio GEC		Drilled By: c	hris 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 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 |



			Client:		Borehole	:		
EMG Pha	se 2			SEGRO			В	H24
Contract Ref:	Start: 12	2.09.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 14	4.09.22	67.02	E:446273.4 N:324520.3		2	of	11

		Sample	s & Testing		Mecha	anical	Log	ଷ , ଟ	_					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				Recoverage angular of grey Fractu	ered as sl r gravel. (r 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			abunda (MER) 3 copied	ant black s CIA MUDS .50-3.75m from 3.50	ing rough to undulating sr 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 occasiona 13-5.30m:	Ni, clayey sairdy graver. Nom: Fracture 0-10°, (every closely spaced unding and abundant black stainin NI, sandy gravel. grey siltstone.	ulating -		
- 5.74 - 5.83 -	26	D								5.4	43-5.51m: 5.62-5.73r	NI, sandy gravel. m: thinly interlaminated with	h grey	0.00	
6.00-7.50				X	X	 	X			\ 5.9 Extrem	84-5.87m: 94-6.00m: nely weak	medium strong grey siltston weak grey siltstone. , locally thinly laminated, IUDSTONE. Occasional pr	, dark	6.00	
6.39-6.63	27	С		100	62	40				and la siltstor Fractu undula discolo (MERO	aminae of ne. GRADI res: Ind tting, roug ouration on CIA MUDS	weak to medium strong III. ipient, randomly orier h, occasional black stainin surface. TONE GROUP)	g grey Lantated, Fing and Finance		
7.50-9.00	28	С		X	*	*	NI 270			occasing gravel6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.	ted inciponal black Rare redu 30-6.42m: 662m: 18° un64-7.08m; 6.96-7.05 d. 7.00-7.06 d. 7.04-7.06m; 16-7.17m; 16-	5.42m: multifractured ran pient undulating rough a staining. Recovered as a auction spots (<5mm). 50° undulating rough, undulating rough, silty clay in thinly and thickly interlamed. m: 51° undulating rough m: 50° undulating rough m: 4° undulating rough, silt 5° planar rough occasional	with ingular -	(3.00)	
-				100	67	40				stainin specks7.88.68.6	50-7.55m: 7.72-7.73 g 7.85-7.86 s. 38-7.96m: 01-8.12m:	8m: 4° planar rough rare 6m: 9° planar rough rare 77° undulating rough clean. 37° planar rough clean. 31° undulating rough occa	black	9.00	
Во	ring F	Progress	and Water Ob					Chise	elling	j / Slow P	rogress	General F	2 ema	rke	
Date .	Time	Borei Dep	0	Boreh Diame (mn	eter	Wate Dept	. 11	From		То	Duration (hh:mm)	- General F	70111q	11/2	
Method Used: 0		ection p		. –		2000 chio (Dr By	illed ': Chri	s Jobson	All dimensions in metres Logged JAlton + By: RStan	Scale: Checked By:	1:25	A

2		Boring Pro	ogress and	Water O	oservations		Chisell	ing / Slow F	Progress	Conoral	Domor	ko	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)	General	Remai	KS	
3			Берит	Depth	(mm)	Берит			,				
زُ													
2													
5													
3													
í													
2													
;										All dimensions in metres	Scale:	1:25	
	Method Used:		tion pit +	Plai + Use		o 2000 Mar		Drilled By: Chr	is Jobson	Logged JAlton + By: RStan	Checked By:		AGS



Contract:			Client:		Borehol	e:		
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		3	of	11
0 1 0 7							\neg	

		Sample	s & Testing		Mech	anical	Log <u>∞ , 5</u>	<u>~</u>			Depth	Mate
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Legackfill & Backfill	Water		Description of Strata	(Thick ness)	Grap
9.00-10.50	29	С		87	19	8		<u>1</u>	occasionally b 8.56-8.71 siltstone 8.73-8. black specks. AZCL (MERCIA MU Extremely we locally dessi	81-8.46m: 81° undulating relack staining. m: NI, thinly interlaminated with 87m: 76° planar rough occas DSTONE GROUP) ak thinly laminated reddish broated, MUDSTONE. Occas figrey fine siltstone. GRADE III.	grey (0.55) ional 9.55	AZ
10.50-11.80				<u> </u>	*			<u>‡</u>	Fractures: Raplanar, rough, (MERCIA MU 9.55-9.81 9.81-10.0 10.01-10. occasional inte	andomly orientated, predomina with occasional clayey silt infill. DSTONE GROUP) m: NI, recovered as clayey grave 1m: extremely weak mudstone. 45m: thinly laminated mudstone erlaminae of grey siltstone. 50m: NI recovered as gravel.	el.	
- - -				72	40	18			and grey siltsto	-11.27m: NI, recovered as sa	andy _	
- - - 11.48-11.68 - -	30	С							MUDSTONE. to medium stro Bedding fractu predominantly	eak to very weak reddish be Occasionally interbedded with vong siltstone. GRADE III. ure: 0-10°, closely to widely spa planar, rough, with occasional be face, rare infill of silt.	weak aced,	
11.80-13.30 11.80-11.89		SPT	26/50 for 20mm	*	*	 			(MERČIA MU 11.27-1 black staining.	DSTONE GROUP) 1.28m: 4° planar rough occas 1.39m: 7° planar rough occas		
- 11.88-12.18 - - - - - - -	31	С		100	91	71	170 1080		black staining, 11.39-1 black staining, 12.32-1 black staining, 12.32-1 black staining 12.50-1 black staining 12.61-12. black staining, 12.70-12.	silt infill up to 3mm. 1.40m: 6° planar rough occas silt infill. 2.33m: 4° planar rough occas 2.39m: 71° planar rough abun	ional [(2.03) ional [] i	
13.30-14.80				100	88	84	—		black staining.	2.92m: 7° planar rough occas		
Bo	rina I	Progress	and Water Ob	servat	ions	•	Chise	ellina	/ Slow Progress			
	Time	Bore	hole Casing	Boreh Diame (mn	ole eter	Wate Dept	er From	Ť	To Duratio	General R	emarks	
		·	·			•						
										 	cale: 1:2	5
Method Used: C	able	ection p Percuss	sion + Use	. –			Mark2 + GEO 205	Dri By	illed : Chris Jobs o		Checked By:	A

2		Boring Pro	gress and	Water Ob	servations		Chisell	ing / Slow F	rogress	C	eneral F	Domor	ko	
	Date	Time	Borehole Depth	Casing	Borehole Diameter	Water Depth	From	То	Duration (hh:mm)	Ge	enerarr	Temai	K5	
ĝ			Берит	Depth	(mm)	Берит			, ,					
'														
3														
5														
5														
5														
;														
ا ز														
إغ														
,										All dimensions	s in metres	Scale:	1:25	
5	Method	Inspec	tion pit +	Plan	t Dand	o 2000 Mai	·k2 +	Drilled		Logged JA	Alton +	Checked		
3	Used:		rcussion -	+ Use	d: Coma	cchio GEC	205	By: Chr i	s Jobson		RStan	Ву:		AGS



BOREHOLE LOG

Contract:		Client:		Borehole	e :		
EMG Pha	se 2		SEGRO			В	H24
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		4	of	11

			Sample	s & Testing	1	Mecha	anical	Log <u>∞ , </u> §	<u>_</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	lt (mm) 8 ackfill & Site of the control of the con	Water	Description of Strata	(Thick ness)	
L										13.31-13.45m: 54° planar rough occasional	_	
L										black staining 13.36-13.37m: 4° planar rough occasional	L	
	13.74-13.95	32	D							black staining.		
_ [10.7 1 10.00	0_								Weak reddish brown MUDSTONE. Occasionally		
Ë L										interbedded with weak to medium strong siltstone.		
4										GRADE II. Fractures: 80-90° and 0-10°, planar, rough,		
<u>۽</u> [100	88	84			occasional black staining.	L	
2/22						1	l ,			(MERCIA MUDSTONE GROUP)		
= [13.30-13.74m: medium strong fragmented		
<u>×</u> [siltstone.(stratum copied from 13.30m from previous sheet)		
n.03										13.63-13.65m: 9° planar rough occasional		
oils.										black staining.		
<u>@</u> [V	₩			13.91-14.59m: 82° planar rough occasional		
: as	14.80-16.30				A	A	A			black staining14.51-14.55m: weak siltstone.		
mail										14.70-14.80m: NI, recovered as angular		
Ä. [_									gravel.	_	
9.										14.80-14.99m: NI, fractures randomly orientated and 40-50° closely spaced planar rough		
soils	15.21-15.45	33	С							clean.		
W.										15.15-15.80m: Grey weak and medium strong		
.d.										siltstone.		
. Š. [100	87	82					
299						1	l i			45.07.45.00		
-552										15.67-15.92m: reddish brown mottled grey mudstone and siltstone.		
1977											_	
Ö	_										_	
, E										16.04-16.22m: 86° undulating rough rare	-	
225										black staining.	_	
7-55					<u> </u>	_*	<u> </u>				-	
197	16.30-17.80				│	1	│			16.34-16.50m: grey siltstone.	-	
- e											-	
											-	
est Yorkshire, WF10 1NJ. Tel: 01977-552265, Eax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 10:44 TC9											-	
_ - -		١								16.78-16.86m: grey siltstone.	-	
. je	16.81-17.08	34	С							10.70 10.00m. gray amatoria.	-	
rks	-					l					(7.50)	
st ?					100	100	100			17.03-17.05m: grey siltstone.	- '	
§ -										17.12-17.15m: grey siltstone.	-	
ford										17.22-17.23m: 8° planar rough clean.	-	
astle										17.23-17.31m: grey siltstone.	ŀ	
j j											-	
Stree -											-	
- 45.											-	
Pott	17.80-19.30				 	lacksquare	- X -	-		17.80-17.86m; NI.	-	
otteries, Pottery Street, Castleford, W	17.00-18.30				100	91	81			17.80-17.60m. Nr 17.80-18.30m: grey siltstone.	}	
offer L										J. 2.2. 3 , 2	L	

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow l	Progress	General	Domorl	40	
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General		15	
3													
5										All dimensions in metres	Scale:	1:25	
	Method Jsed:	Cable Pe	tion pit + ercussion -	Plan Used		o 2000 Mai cchio GEC		Drilled By: Ch i	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 Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552256. Fax: 01977-552299 v



Contract:					Client:		Boreho	ole:		
	EMG Pha	se 2				SEGRO			BH	124
Contract Ref	•	Start:	12.09.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
7	65514	End:	14.09.22		67.02	E:446273.4 N:324520.3		5	of	11
	Samples & Test	ting	Mecha	anical Lo	og ∞ , 5 _			Denth	Ма	terial

		Samples	& Testing		Mech	anical	Log	% - Light	Į.					Depth	Mate
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water		De	escription of Strata		(Thick ness)	Gra Leg
19.13-19.30 19.30-20.80 19.30-19.57		C C		100	91	95				blacks blacks blacks interibe cracial cocasi (MERC) siltstor previor blacks polishe siltstor polishe cocasi coc	7.97-18.00 staining. reddish bedded with E II. res: 80-9 onal black CIA MUDS 13.30-13. ne. (stratun us sheet) 18-07-18.0 staining. 18-07-18.0 staining. 18-07-18.0 staining. 19.00-1 ed, occasion. 19.77-19.8 staining. 19.30-1 ed. (staining. 19.31-20.42 ed. (stain	STONE GROUP) 74m: medium strong fragr n copied from 13.30m 08m: 4° planar rough occa m: 44° planar rough clean.	asional tistone. rough, nented from asional asional casional calcite an.	20.80	
Вог	ring F	Progress	and Water Ob	servat	ions			Chise	lling	/ Slow P	rogress	0			
Date 1	Time	Boreh Dep		Boreh Diam (mr	eter	Wate Dept	- 11	From	Ĭ	То	Duration (hh:mm)	General F	<ema< td=""><td>rks</td><td></td></ema<>	rks	
		1	1	1	- 1		- 11								
Method		ection p	it + Plar			2000			Dri			All dimensions in metres Logged JAlton +	Scale: Checke	1:25	<u> </u>

		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / S	low Pro	ogress	,	General I	Domor		
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	Т		Duration (hh:mm)	•	Jenerai i	Temai	KS	
3															
;											All dimensi	ons in metres	Scale:	1:25	
) [Method Jsed:	Cable Pe	tion pit + ercussion -	Plan Used		o 2000 Mar cchio GEC		Drilled By:		Jobson	Logged By:	JAlton + RStan	Checked By:		AGS
		Cable Pe								Jobson	Logged	JAlton +	Checked	-	1:25

Contract:				Client:		Borehole	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		1	of	11

			Sample	s & Testing	N	Mecha	anical	Log	& - 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
	0.00-0.00 0.00-0.10 0.05-0.05 0.10-0.10	1 3 2 4	D B ES D	1xT+1xJ+1xV							TOPSOIL	(0.40)	\(\frac{1}{2}\), \(\frac{1}\), \(\frac{1}\), \(\frac{1}{2}\), \(\frac{1}{2}\), \(\frac{1}{2}\), \(\frac{1}{2
	0.10-0.40 0.20-0.20 0.40-0.40	6 5 7	B ES D	1xT+1xJ+1xV							Firm light orangish brown sandy gravelly CLAY. Sand is fine to medium. Gravel is angular to	0.40	
	0.40-1.00	9	B ES	1xT+1xJ+1xV							subrounded fine to medium of mudstone.	(0.60)	
	1.00-1.00	10	ES	1xT+1xJ+1xV							Reddish brown slightly clayey gravelly medium to coarse SAND. Gravel is angular to subrounded	1.00	
'	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 extremely weak mudstone and siltstone. Frequent	-	· · · · · · · · · · · · · · · · · · ·
	1.70	14	D								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								_ _(1.80) _ _	
	2.50	18	D									-	
	3.00 3.00-3.36	19	ES SPT	5,18/18,18,14							Very stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine and medium. Gravel is	3.00	
	3.00-3.45 3.00-3.50	20 21	DSPT B	for 57mm							angular to subangular fine to coarse mudstone and siltstone lithorelics. GRADE IVa and verging towards GRADE III. (MERCIA MUDSTONE GROUP)	(0.50)	
}	3.50-5.00 3.50 3.50-3.79	22	D SPT	7,18/21,29		—	—				Extremely weak reddish brown thickly laminated MUDSTONE GRADE II. Bedding fractures: Very closely spaced, rough,	3.50	<u>'o '- '</u> o
	3.50-3.96	23	DSPT	for 72mm							undulating, with dark brown staining on surfaces. (MERCIA MUDSTONE GROUP)	- - 3.95	
,	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)	- - -	
_													

0.200_20 5 ES D D D D D D D D D	Method Used:	Cable	Percus	sion + Used		lo 2000 Ma acchio GE		Drilled Chri	is Jobson + - Pearson		checked by:	
0.40-1.00												5_
0.40-1.00							3.30	3.50	00:30			
0.40-0.40 7	Date	Time		_	Diameter	l	From	То				
0.40-0.40 7 D B ES 1xT+1xJ+1xV		Boring	<u> </u>				Chisel	ling / Slow F	rogress	General Ro	emarke	
0.40-0.40								(IVILIA)	C# (NOD			
0.40-0.00 7 D 0.40-1.00 9 B ES 1xT+1xJ+1xV	· 4.25	25	С					on sur	faces.		ning -	
0.40-0.00 7 D 0.40-1.00 9 B ES 1xT+1xJ+1xV								Fractu	res: Vei			
0.40-0.40 7 D D 0.40-1.00 9 B ES 1xT+1xJ+1xV	-	23			87 2	1 0		Extren	nely weal			
0.40-0.40 7 D 0,40-1.00 9 B ES 0.50-0.50 8 ES 1xT+1xJ+1xV 1.00-1.00 10 ES 1xT+1xJ+1xV 1.00-1.00 10 ES 1xT+1xJ+1xV 1.20-1.20 1 11 D SPT 1.20-1.65 1.2 DSPT 1.3 B 1.20-1.70 14 D 1.70 14 D 1.70 14 D 1.70 15 ES SPT 2.00-2.45 16 DSPT 2.00-2.45 16 DSPT 1.20-2.45 16 DS	_							undula	ating, with	dark brown staining on surface	es	
0.40-4.00 7	3.50	22	_	7 10/01 00	1 1			MUDS	STÓNE. G	RADE II.	ŀ	
0.40-0.40 7 D 0.40-1.00 9 B ES 1xT+1xJ+1xV	_		В					(MER	CIA MUDS	STONE GROUP)		-
0.40-0.40 7 D D (0.40-1.00 9 B ES 1xT+1xJ+1xV) 1.00-1.00 10 ES 1xT+1xJ+1xV 1.20-1.20 11 D SPT (1.20-1.65 1.20-1.70 13 B B (1.20-1.70 14 D D (1.20-1.20 1.20-1.20-1.20-1.20-1.20-1.20-1.20-1.20-				for 57mm				siltstor	ne lithore	ics. GRADE IVa and ver	and (0.50)	-0
0.40-0.40 0.40-1.00 0.50-0.50 8 ES 1xT+1xJ+1xV 1.00-1.00 10 ES 1xT+1xJ+1xV 120-1.20 15 2DSPT 1.20-1.70 14 D 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.								gravel	ly CLAY. S	Sand is fine and medium. Grav	el is	-0
3											3.00	
Sand is fine to medium. Gravel is angular to subrounded fine to medium of mudstone. 1.00-1.00	- -										-	1
Sand is fine to medium. Gravel is angular to subrounded fine to medium of mudstone. 1.00-1.00 10 ES 1xT+1xJ+1xV 1.20-1.20 1.20-1.65 1.20-1.65 1.20-1.70 1.3 B 1.70 1.4 D 1.70 1.70 1.70 1.70 1.70 1.70 1.70 1.70	2.50	18	D								-	
Sand is fine to medium. Gravel is angular to subrounded fine to medium of mudstone. 1.00-1.00 10 ES 1xT+1xJ+1xV 1.20-1.20 1.20-1.65 1.20-1.65 1.20-1.70 1.3 B 1.70 1.4 D 1.70 1.4 D 1.70 1.70 1.70 1.70 1.70 1.70 1.70 1.70	- 2.00 - 2.50 -	17	8								-	-0
Sand is fine to medium. Gravel is angular to subrounded fine to medium of mudstone. 1.00-1.00 10 ES 1xT+1xJ+1xV 1.20-1.20 1.20-1.65 1.20-1.65 1.20-1.70 13 B Reddish brown slightly clayey gravelly medium to coarse SAND. Gravel is angular to subrounded 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 extremely weak mudstone and siltstone. Frequent pockets and lens (<10mm) of grey silty sand. GRADE IVa. (MERCIA MUDSTONE GROUP)	2.00-2.45 2.00-2.45	16	SPT DSPT	N=19							- (1.00)	•
Sand is fine to medium. Gravel is angular to subrounded fine to medium of mudstone. 1.00-1.00	- _ 2.00	15	ES								(1 80)	
Sand is fine to medium. Gravel is angular to subrounded fine to medium of mudstone. 1.00-1.00	1.70	14	D							STONE GROUP)	-	
Sand is fine to medium. Gravel is angular to 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 fine to coarse of mudstone and sandstone. 1.20-1.20 1.20-1.65 1.20-1.65 1.20-1.70 1.30 Reddish brown slightly clayey gravelly medium to coarse SAND. Gravel is angular to subrounded 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								pocket	ts and le			-
Sand is fine to medium. Gravel is angular to subrounded fine to medium of mudstone. Sand is fine to medium. Gravel is angular to subrounded fine to medium of mudstone. 1.00-1.00	1.20-1.65	12	DSPT	14-13				CLAY and s	. Sand is subangulai	fine to coarse. Gravel is and fine to medium lithorelics	gular L s of	
Sand is fine to medium. Gravel is angular to subrounded fine to medium of mudstone. Sand is fine to medium of mudstone. Sand is fine to medium. Gravel is angular to subrounded fine to medium of mudstone.				N=15				√fine to	coarse of	mudstone and sandstone.		-0
Sand is fine to medium. Gravel is angular to subrounded fine to medium of mudstone.	1.00-1.00	10	ES	1xT+1xJ+1xV				Reddis	sh brown :	slightly clayey gravelly mediu Gravel is angular to subrour	m to	·o
0.40-0.40 7 D Sand is fine to medium. Gravel is angular to subrounded fine to medium of mudstone.	-										1 00	-0
0.40-0.40 7 D Sand is fine to medium. Gravel is angular to				1xT+1xJ+1xV				SUDIOL	inded IIIle	to mediam of madstone.	(0.60)	-
	0.40-0.40	7	D	1x1+1xJ+1xV				Sand	is fine to	medium. Gravel is angula	_AY. ar to [_ <u>·</u>



BOREHOLE LOG

		Client:		Borehole:			
EMG Pha	se 2		SEGRO			Bŀ	1 25
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		2	of	11

			Samples	s & Testing	N	Иесhа	anical	Log	tio ⊩ ⊗	ē		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
12/22 - 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/	-				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	
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 - 10:44 TC9	6.35-6.45 6.50-8.00	26	С		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)	-	
0 1NJ. 1el: 01977-552255, Fax: 01	-				87	64	58			1	6.90-7.00m: Thinly cross laminated greenish grey siltstone.	(3.00)	
orkshire, WF1	- 7.84 - 8.00	27	С		<u> </u>	_	<u> </u>			¥		-	
Castleford, West YC	_ 8.00-9.50 _ _ _ _				100	-	F					-	
teries, Pottery Street,	8.60-8.70 _	28	С		100	59	53				8.70-8.85m: Thinly laminated greenish 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	Reman	NS	
			•	•	(****)	•							
	Method Used:		etion pit +	Plan • Used		o 2000 Mar cchio GEO		Drilled Chri By:	s Jobson +	All dimensions in metres Logged DNeylon + By: JAlton	Scale: Checked By:	1:25	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 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



EMG Phase 2 SEGRO			В	H25
	1		_	0
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 <u>⊌ , </u> <u>5</u>	_					Depth	Mate
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Log & limbour Sackfill & Sackf	Water		De	escription of Strata		(Thick ness)	Grap Lege
9.50-11.00	29	O		100	59	53		1	siltston Extrem GRAD Beddin undula	e. lely weal E II. g fractu ting, black	r: Thickly laminated greenish reddish brown MUDST res: Closely spaced, r staining on surfaces. STONE GROUP)	ONE.	9.15	
- - - - - 10.45-10.60 - -	30	С		100	56	33			orienta √staining Very w SILTS	ted rough g on surfa /eak, loca TONE.	Very closely spaced ran planar fractures with dark ces. Ily medium strong, greenish STONE GROUP)	brown	10.40	× × × × × × × × × × × × × × × × × × ×
_ _ 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		000000000000000000000000000000000000000	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			Very s gravelly size po sandy (MERO	stiff reddie y CLAY wockets and silt. GRAD DIA 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	^ × × 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0
- - 13.15-13.35 - -	32	С						• • • • •				-		
Bor	ring F		and Water Ob	Boreh	ole	10/-4		elling	g / Slow P		General F	Rema	rks	
Date 1	Γime	Bore Dep		Diame (mn	eter	Wate Dept	II From	1	То	Duration (hh:mm)	333.3.			
											All dimensions in metres	Scale:	1:25	
	able	ection p	sion + Used	. –			Mark2 + GEO 205	Dr By		s Jobson +	Logged DNeylon +	Checkee By:		A

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow P	rogress	General	Domor	40	
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 Used:				Plant Dando 2000 Marl Used: Comacchio GEO			Drilled Chri By:	s Jobson +	By: JAlton	Checked By:		AGS



BOREHOLE LOG

Contract:			Client:		Borehole	:		
EMG Ph	ase 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

[Sample	s & Testing	N	Mech	anical		#ion F	į.		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill & Instru- mentation	Water	Description of Strata	(Thick ness)	Graphic Legend
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)	
www.soils.co.uk, Email: ask@s	-				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	
Fax: 01977-552299, Web: v	15.50-17.00 - - - - 15.85-16.10		С		*	X	X					- -(1.65) - - -	
Castleford, West Yorkshire, WF10 1NJ. 1ei: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22	-				103	70	42				Stiff reddish brown slightly sandy CLAY. Sand is fine an mudstone derived. GRADE IVb. (MERCIA MUDSTONE GROUP) Very weak greenish grey fine to medium grained	16.45	
astleford, West Yorkshire, \	- 17.00-18.50 - 17.28-17.45		С		*	X	 				SANDSTONE very thinly interbedded with extremely weak reddish brown MUDSTONE. (MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE. GRADE II. (MERCIA MUDSTONE GROUP) Extremely weak greenish grey SILTSTONE thickly	17.00	
Potteries, Pottery Street, Ca	-				93	68	47				interlaminated with very weak fine to medium grained SANDSTONE. (MERCIA MUDSTONE GROUP) 17.45m: Lenses (<4mm) of reddish brown clay. Description on next sheet	17.55 - - -	Y. Y. Y. Y. Y. Y. Y. Y.

	Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow P	rogress	General	Domorl	′ 0	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	15	
		Ворин	Ворин	(11111)	Ворит							
									All dimensions in metres	Scale:	1:25	
lethod Inspection pit + Sed: Cable Percussion +				Plant Dando 2000 Mar Used: Comacchio GEC			Drilled Chri 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 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		5	of	11

			Sample	s & Testing	ı	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
•	8.50-20 8.70-18		С		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) - - - -	
-					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)	
						•	•				Very weak greenish grey SILTSTONE. (MERCIA MUDSTONE GROUP) 19.60-19.75m: 85°, rough undulating fractures 19.85-19.90m: Band of greenish grey sandy silt. Borehole terminated at 20.00m depth.	(0.40)	× × × × × × × × × × × × × × × × × × ×
												-	
												-	
												-	

	Boring P	rogress 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	
				()								
,												
									All dimensions in metres	Scale:	<u>1:25 </u>	
Metho Used:				Plant Dando 2000 Marl Used: Comacchio GEO			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 |

Rotary Cored



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	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
	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 I	Progress	Canaral	Damarka	_
Castleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hhumm)	General	Remarks	5
astle	L	11110	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				Z. Hara dag inspection pit		
al Soils				1			il			All dimensions in metres	Scale: 1:	25
ructural	Method Used		Percussion	+ Plan		ando 3000		Drilled Bv:	???	Logged DNartey +	Checked By:	200

BOREHOLE LOG

		Client:		Borehole:			
EMG Phas	se 2		SEGRO			Bł	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

L				Liiu.	20.0				JO. 1 1				
			Sample	s & Testing	ı	Mech	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
	4.50 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)	
- 3	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							evidence of bedding. GRADE IVa. (MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE with		
77/7/1	- -			for 8mm							frequent fine gravel size pockets and laminae (<15mm) of greenish grey siltstone, recovered as angular fragments with matrix of clayey sand.	- (0.50) -	
IIS.CO.UK.	5.50	23	D		85	8	0				(MERCIA MUDSTONE GROUP) Extremely weak reddish brown MUDSTONE.	5.50	
. dsh@su	-										GRADE II. Bedding fractures: Very closely spaced, smooth, undulating, black staining.	-	
.ur, Ellial	6.00-7.50				+	*	+				Fracture set 2: Randomly orientated, very closely spaced, smooth, planar, black staining on surfaces.	_(1.00)	
w.solls.co	-										(MERCIA MUDSTONE GROUP)	-	
eD. W	- 6.35 -	24	D								Establish have MUDOTONIC	6.50	
TORBITTE, WE TO TWO. 18t. O1977-052255, TAX. O1977-052295, Web. WWW.SOIIS.CO.ON, ETIMIT. ASNŒSOIIS.CO.ON.	- - -				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)	(0.60)	
D, Γαλ. υ	-										6.90-7.10m: Extremely weak siltstone.	7.10	
0.250	- -										Extremely weak reddish brown MUDSTONE with fine to medium gravel size pockets of greenish grey siltstone. GRADE II.	-	
5	7.50-9.00				+	*	+				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.	-	
O NOTING	7.90	25	D									-	
	- - -				93	41	29					-	
tone is compared to the control of t	- - -										8.50-8.60m: Recovered as angular gravel, suspected bedding fracture.	- (2.85) -	
- (2011)	-											-	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	General	Domorl	' 0	
asileioid	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair	(5	
- 2011													
, Etg., D.													
a 0013										All dimensions in metres	Scale:	1:25	
	Method Used:		ercussion · y Cored	+ Plan Use		ando 3000 Inimog 405		Drilled By:	???	Logged DNartey + By: RStan	Checked By:		AGS



EMG Phase 2 SEGRO				
LING I Hase Z			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		3	of	10

		Sample	s & Testing		Mech	anical	Log	J ≣	ē			Depth	Mate
Depth (m)	No	Туре	Results	TCF (%)	SCF (%)	RQD (%)	If (mm	Backfill	Water	D	escription of Strata	(Thick ness)	Grap Leg
9.00-10.50	26	D		93	41	29				fine to medium grey siltstone. G Bedding fractu- planar, black sta Fracture set 2 planar. (MERCIA MUD (stratum copied 9.60-9.65 suspected bedd	ures: Closely spaced, smooth aining on surfaces. 2: Randomly orientated, smooth STONE GROUP) a from 7.10m from previous sheet, firm: Recovered as angular grave ing fracture. Inn: Recovered as angular grave	h	
- - - -				<u> </u>		Y				Extremely weak interbedded winderbedded winderbedded winderbedded winderbedded winderbedded with the second was a second with the second winderbedded winderbedded with the second winderbedded with the second winderbedded with the second winderbedded with the second winderbedded with the second winderbedded with the second winderbedded with the second winderbedded with the second winderbedded with the second winderbedded with the second winderbedded with the second winderbedded winderbedded with the second winderbedded with the second winderbedded with the second winderbedded winderbedded winderbedded with the second winderbedded winderbedded winderbedded with the second winderbedded win	reddish brown MUDSTONE thin th greenish grey SILTSTONI domly orientated, smooth, plana taining on surfaces. STONE GROUP)	(0.55)	× × × × × × × × × × × × × × × × × × ×
10.50-12.00				1						Extremely weak occasional fine greenish grey si Bedding fractuplanar, with black Fracture set 2 planar, with black	reddish brown MUDSTONE witto medium gravel size pockets	of n,	
11.20 - -	27	D		100	67	40				·	,	11.60	
- _ 11.70-11.90 - -		С		Y						laminated SANI and occasiona carbonate mine	k greenish grey thinly to thick DSTONE. Fine gravel size pocke al laminae of brown coloure rals and siltstone. GRADE II. STONE GROUP)	s	
_ 12.00-13.50 _ _ 12.20 _ -	29	D								interbedded wi GRADE I. Beddig fracture undulating.	reddish brown MUDSTONE thin th greenish grey SILTSTONE es: Very closely spaced, rough STONE GROUP)	i, (0.50)	× × × × × × × × × × × × × × × × × × ×
- - - _ 13.00-13.15 -	i 30	С		90	63	47				Weak thinly SANDSTONE.	cross laminated greenish gre	12.65 y - - - -(0.95)	
Bo	orina l	Progress	s and Water O	bserva	tions	 		Chise	lling	/ Slow Progress			:::::
	Time	Bore	hole Casing	Bore Diam (mi	hole leter	Wate Dept	- 11	From	9	To Duration (hh:mm)	General Rer	narks	
N4-44 '					l					U-4 -5-	All dimensions in metres Scale		5
Method Countries Used:		Percuss tary Cor				ndo 30 nimog			Dril By:		Logged DNartey + Che By: RStan By:	cked	A

Ĕ		Boring Pro	ogress and	Water Ob	servations		Chiselli	ng / Slow F	rogress	Canaral Damarka	
iei oi d	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter	Water	From	То	Duration (hh:mm)	General Remarks	
branch Office - Cas			Берит	Берит	(mm)	Depth					
Iral Solls Ltd.	Mothod	O.H. D		Dian				Drillad	000	All dimensions in metres Scale: 1:25	_
200	Method Used:		ercussion ·	+ Plan		ando 3000 · Inimog 405		Orilled Bv:	???	Logged DNartey + Checked By. RStan By.	

BOREHOLE LOG

EMG Phase 2 SEGRO		F	3H2	2
		_	,, i£	J
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	4	of	f 1()

			Sample	s & Testing		Mech	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
100-100-100-100-100-100-100-100-100-100	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	
IIIaii. ash@soiis.co.uh. 1171	- - - - 14.75	32	D								Very stiff greenish grey sandy SILT. Sand is fine and siltstone derived. GRADE IVa. (MERCIA MUDSTONE GROUP)	14.60	* · · · · · · · · · · · · · · · · · · ·
SD. WWW.SOIIS.CO.UR, EI	15.00-16.50 - 15.30	33	D			Å	İ				Very stiff reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to medium and mudstone. GRADE IVa. (MERCIA MUDSTONE GROUP)	(0.50)	
02500; I dA: 01011-005500; W					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		X	X	X	-				(2.10)	
ce, castigiola, west followin	- - 17.05-17.20 - - -	35	С		93	63	60					17.60	
weight and young orders, cashed at	-										Description on next sheet	-	× × × × × × × × × × × ×

2		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	General	Domorl	' 0	
asilelold	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remair		
, DI													
										All dimensions in metres	Scale:	1:25	
חו מסומיו	Method Used:		ercussion - ry Cored	Plan Use		ando 3000 Inimog 405		Drilled By:	???	Logged DNartey + By: RStan	Checked By:		AGS

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		5	of	10

			Samples	s & Testing	1	Mecha	anical	Log		<u>_</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQE (%)	If (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
mail: ask@soils.co.uk. 11/12	-										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		A	•	À					(1.30)	
1977-552255, 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
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 - 10:45 TC9					•	V	•					21.00	× × × × × × × × × × × × × × × × × × ×

2		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	Reman	15	
2													
5													
										All dimensions in metres	Scale:	1:25	
0.000	Method Used:		ercussion or y Cored	+ Plar Use		ando 3000 Inimog 405		Drilled By:	???	Logged DNartey + By: RStan	Checked By:		AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: 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:



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

L				1 =								
			Sample	s & Testing	1	Mecha	anical	Log <u>∞ , </u> <u>5</u>	<u>_</u>		Depth	Material
	Depth				TCP	SCR	ROD	It Şt. iji	Water	Description of Strata	(Thick	
	(m)	No	Type	Results	(%)	(%)	(%)	If Sackfill &	≥	2000 paori di dididi	ness)	Legend
ŀ					(,0)	(,0)	(70)) = E		TOPSOIL	,	31/20 31/2031
		ا ا								IUPOUIL	(0.30)	
	0.10-0.10	101	ES	1xT+1xJ+1xV							(0.50)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
											0.30	<u>.\ i, i, i, i, i, i, i, i, i, i, i, i, i, </u>
_	-									Firm to stiff reddish brown slightly sandy gravelly	0.00	
3 1	0.40-0.40	102	ES	1xT+1xJ+1xV						CLAY. Sand is fine to medium. Gravel is angular to	}	L
_	0.40-0.40	102	ES	IXITIXJTIXV						subrounded fine to coarse of mudstone.	-	
0.45 0.8	_									(MERCIA MUDSTONE GROUP)		
- 1										(,		
7	-										(0.90)	
2	-										}	
-	-										-	
-	_										L	-:-:-
								l kiti				<u></u>
<u>.</u>	-							l [:::日:::1			1.20	
dan (Wadiis.	1.20-2.20				_		_			Very stiff brown slightly sandy gravelly CLAY.	1.20	
אר מאר	1.20-2.20		SPT	N=9	IT	T	T	::日::-		Sand is fine to coarse and mudstone derived.	}	
<u>.</u>	1.20-1.03	1	DSPT	11-3						Gravel is angular to subangular fine to coarse	ļ	
<u>0</u>	1.20 1.20	'	201 1					『説記::		mudstone and siltstone lithorelics. Frequent		<u> </u>
֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	-									randomly orientated fractures with black staining		
D	-							l k:H::1		on surfaces. GRADE IVa.	-	L
S .	-				100	0	0			(MERCIA MUDSTONE GROUP)	-	<u></u>
Š.	-							l ki:⊟i:il		(-	
§	_											
web.	1.90-2.00	103	ES					I I∷⊞∴⊦			(1.55)	<u> </u>
ž	2.00-2.10	4	D					l ki:Hi:il				
ž	2.10-2.20	5	С					l iiiliii			-	··-
77	2.20-3.00				$-\mathbf{k}$	$\vdash \!\!\!\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! $		│			-	
ř	2.20-3.00		SPT	6,8/12,21,17	Ī	ΙĪ	Ī	k::H:::1			-	
1810	- 2.20-2.00		01 1	for 30mm				l ‼:⊞::j				<u></u> -
				101 00111111								
g [-							I ⊦∴⊞∴:1			Ī	
g l	-				113	0	0				-	<u></u>
77	-				1	l ,	1	l li:Hi:i			2.75	· · · ·
ř		l						l P::日::		Very stiff reddish brown slightly sandy gravelly	-	<u>-ō</u> .o
- / A I I I I I I I I I I I I I I I I I I	2.80-2.90	106	ES					:: ::		CLAY. Sand is fine to coarse and mudstone	L	-
2	2.90-3.00	7	D		l ₩	₩	₩	:: ::		derived. Gravel is angular to subangular fine to		
<u>"</u>	3.00-3.40				Á	A	A] [::田::]		coarse extremely weak mudstone lithorelics and	Γ	<u> </u>
2	3.10-3.20	8	D					:: ::		occasional very weak siltstone lithorelics . GRADE	<u> </u>	<u> </u>
2	- 0.10 0.20				138	23	0	▎ ┟ःः⊟ःःः		<u> </u> .	-	- <u>-</u>
L .	-							『説!!!		Bedding: Extremely closely to very closely spaced,	-	[<u>~</u> - ~ ~
	_					V] [::::::::]		rough, undulating, black staining.	L	
KSIIIIC,	3.40-4.90				A	•	A	I P:····································		Discontinuities: Tight to very tight, random	(1.45)	<u> </u>
5	-							::H::}		orientated.	<u> </u>	- <u>-</u>
25	-									(MERCIA MUDSTONE GROUP)	ŀ	<u>-</u>
NAGS.	-										-	<u> </u>
ģ	-							▎ ╠╩∄╩╣			_	
	_										L	
olleet, Castlelold,	-				77	35	15					<u> </u>
ا ر	_				' '	55	13				<u> </u>	
Ĭ .	-										1	
	-										4.20	<u> </u>
iterites, Politery	_									Description on next sheet	L	
Ĺ	4.30-4.40	9	D									
<u> </u>	-											
ט צ		oxdot		l	\perp						L	

	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	
						Ш

General Remarks

Position cleared using CAT and Genny.
 Hand dug inspection pit to 1.20m.

All dimensions in metres

???

Method	Inspection pit +
Used:	Dynamic sampling +

Scale:

BOREHOLE LOG

Contract:					Client:				Boreho	ole:		
	EMG Pha	se 2						SEGRO			BH	127
Contract Ref:		Start:	12.09.22	Ground	Level (m AOD):	Na	tional Grid Co-ordinate:	Sheet:			
76	5514	End:	14.09.22		59.0	9		E:446622.8 N:324516.7		2	of	<u> 17</u>
	Samples & Test	ina	Mecha	nical I or	7 ×	c					Τ	

			Sample	s & Testing	l N	Mecha	anical Log	∞ - io	<u>ب</u>		Depth	Material
	Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD If (%) (mm	Backfil Instrumentat	Water	Description of Strata	(Thick ness)	Graphic Legend
10:45 TC9	- 4.65-4.80 - 4.90-6.30 - 4.90-5.04	10	C SPT	17,8/50 for 50mm	77	35	15			Very weak reddish brown MUDSTONE with medium spaced laminae and very thin beds (<40mm) of weak greenish grey siltstone. (MERCIA MUDSTONE GROUP) 4.20-5.10m: Very closely spaced smooth planar bedding fractures with frequent black staining and extremely closely spaced smooth planar fractures, 60° and frequently stained dark	-	
il: ask@soils.co.uk. 11/12/22 -	-				89	46	0			brown and black on fracture surfaces.(stratum copied from 4.20m from previous sheet) 5.10-5.30m: Slightly sandy slightly gravelly clay Below 5.30m: Bedding: Very closely spaced, smooth, planar. Fractures: 60°, closely spaced, planar. GRADE II.	(2.15)	
ık, Ema	_5.90-6.00	11	С								_	
: www.soils.co.u	- 6.15 - 6.30-7.80 - 6.35	12 13	D D		X	X	*			、 6.30-6.45m: Frequent thin laminae (<5mm) of ∖cream sandstone.	- - 6.35 -	
AIRPORT.GPJ - V10_01. 255, Fax: 01977-5522 <u>5</u> 9, Web	- 6.40-6.55 - - - - - -	14	С		90	79	13			Weak greenish grey fine grained SANDSTONE with fine to medium gravel size pockets of very weak siltstone. GRADE II. Bedding fractures: Closely spaced, smooth, undulating. (MERCIA MUDSTONE GROUP) 6.45-6.60m: Rough undulating fracture. 6.65m: Extremely weak siltstone. Below 6.70m: reddish brown (transition zone)	- (0.60) 6.95 	
0G - A4P 765514 EAS MIDLAND Yorkshire, WF10 1NJ. Tel: 01977-5522	7.80-9.30				X	*	<u> </u>			and very weak with lenses of very weak mudstone. Very weak reddish brown MUDSTONE with frequent fine gravel size pockets of greenish grey siltstone with black specs. GRADE II. Bedding fractures: Closely spaced, smooth, planar, brown staining. Fracture set 2: 80°, rough, undulating. (MERCIA MUDSTONE GROUP)	(1.30)	
Pflyersion: V6_0 / Log COMPOSITE LOG - A4PT (1655) 4_EAST, MIDLAND, AIRPORT (3-P.) - V10_01. Leties, 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	8.60-8.80 - - 8.90	15	С		100	100	73			Extremely weak greenish grey SILTSTONE. Fractures: Closely spaced, 20°, undulating, smooth. (MERCIA MUDSTONE GROUP)	- 8.25 - (0.75) - 9.00	X X X X X X X X X X X X X X X X X X X

<u> </u>		Boring Pro	ogress and	Water	r Obs	ervations				0-		D = 100 = 11/0		
	Date	Time	Borehole		iiig	Borehole Diameter	Water			Ge	nerai	Remarks		
<i>i</i> -			Depth	Dep	otn	(mm)	Depth							
1									All discount	in mastra		0 1	4.05	
5									All dimensi	ons in metre	S	Scale:	1:25	
) [Method Jsed:		tion pit +		Plant Used:	Coma	cchio GEC	205	Drilled Bv:	???	Logged Bv:	DNeylon + JAlton	Checked Bv:	AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: 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

120												DOILLI	OL	L	.UG
Contract:								Cli	ent:				Boreho	le:	
		EMO	G Pha	se 2								SEGRO			BH27
Contract Re	f:			Start:	12.0	9.22	Grou	and Le	evel (m	AOD):	National Grid Co-ordinate:	Sheet:		
•	765	514		End:	14.0	9.22		ţ	59.09)		E:446622.8 N:324516.7		3	of 17
		Sample	s & Test	ting			anical		⊩ & tion	Į.				Depth	Material
Depth (m)	No	Туре	Res	sults	TCR (%)	SCR (%)	RQD (%)	If (mm)	Backfill Instru- mentati	Water		Description of Strata		(Thick ness)	Graphic Legend
-					100	100					Extr	remely weak reddish brown MUDSTOI asional bands up to 15mm of greeni	NE with sh grey	(0.35)	

Depth				TCR	SCF	RRQD	str 🖳 🗓	Water	Description	of Strata	(Thick	
(m)	No	Туре	Results	(%)	(%)	(%)	(mm) Backfill Instru	>	2000.101.0		ness)	Leç
									Extremely weak reddish b	rown MUDSTONE with		
				100	100	73			occasional bands up to	15mm of greenish grey	(0.35)	
				V	\ v	V			siltstone and closely to smooth planar tight beddi	ing fractures with slight		
9.30-10.80				A	 	A			⊤ darker staining.	ing nactures with slight	9.35	
- I									(MERCIA MUDSTONE G	ROUP)	-	::::
9.50-9.75	17	С							9.15m: 80° fracture	, with slight dark brown	-	::::
	· ·								staining along surface. GR		†	
-									Weak greenish grey SAND		-	
- 1									Bedding fractures: Close		(1.05)	::::
-									rough, undulating, infilled v (MERCIA MUDSTONE G		- (1.00)	
- 1									`	,	-	
- 1				100	71	63			10.00-10.15m: Extren mudstone.	neiy weak reddish brown	-	
-					lт					edded with siltstone and	-	
_									thin laminae (<2mm) of s		-	
									material.		10.40	::::
L									Extremely weak, locally ve			
10.50	18	D							MUDSTONE with frequer			
L I									size pockets of greenish of	jiey sandy siit. GRADE	L	
[L ↓	⊥ ↓	↓			Bedding fractures: Closely	spaced, rough, planar	[
10.80-12.30				A	A	A			(MERCIA MUDSTONE G	ROUP)	ľ	
[]									` 10.80-11.00m: Weal	k brown sandstone with		
ΓΙ									very closely spaced beddir	ng tractures with red clay	Γ	
† l									infill.		†	
t l											<u> </u>	
<u> </u>											İ	
† I											<u> </u>	
-				80	67	20					-	
F				00	07	20					-	
11.65-11.85	19	С									-	
-											-	
- 11.85	20	D									-	
-											(3.30)	
-											-	
-					11				12.15-12.55m: Very \	weak light greenish grey	-	
12.30-13.80				+	 	+			siltstone becoming extrem colour from 12.35m depth.		-	
12.00 10.00									12.30m: 70° smooth p		-	
- 1									,		-	
- 1											-	
- 1											-	
-											-	
40.00.40.00				100	35	29			12.85-13.00m: Extren	nely weak greenish grey	-	
12.90-13.00	21	С		100	"				siltstone with yellow stainin	ig along bedding.	-	
- 1											-	
- 1											-	
-											-	
ļ l	_	_]									-	
13.40	22	D										
)			u: _		П					
Bor	ring F		and Water Ob	servat Borel		10/-1			General	Remarks		
Date T	Гіте	Borel Dep	0	Diam	eter	Wate						
		Det	oth Depth	(mr	m)	Dept	<u>.n</u>					
								All di	mensions in metres	Scale: 1:25		
			1				11					
Method	Insn	ection p	it + Plan	nt				Dri	lled ??? Logged	DNeylon + Check	ed	

D .	Boring Pr	ogress and	Water Ob	servations				Co	noral	Remarks		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth			Ge	enerai	Remarks		
							All dimensi	ons in metre	es	Scale:	1:25	
Method Used:		ction pit +	+ Plan		cchio GEO	205	Drilled By:	???	Logged By:	DNeylon + JAlton	Checked By:	599



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 - 10:45 | TC9 |

STRUCTURAL SOILS

Contract:							CI	ient:				Boreho	ole:	
Join a doi:		EMG	Phase 2								SEGRO	Borone	,,,,,	BH27
Contract Ref	:		Start:	12.09	9.22	Grou	ınd L	evel (m	AOD)):	National Grid Co-ordinate:	Sheet:		
7	655	514	End:					59.09			E:446622.8 N:324516.7		4	of 17
		Samples	& Testing	N	/lecha	anical	Log	∞ , 5	_				Depth	Materia
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	If (mm	Backfill & Instru-	Water		Description of Strata		(Thick ness)	
				100	75								13.70	
13.80-15.30				100	35	29				inter gree are the Bed infill	remely weak reddish brown MUDSTOI redded with extremely weak to verenish grey SILTSTONE. Often siltstoformed as lenses and only partially obscore. GRADE II. ding fractures: Closely spaced, roughed with red clay. RCIA MUDSTONE GROUP)	ry weak ne beds served in	-	× × × × × × × × × × × × × × × × × × ×
14.70-14.90 15.10 15.30-16.80	23	C D		100	37	9				colo	15.00-15.20m: Siltstone with laminae ured calcium carbonate and sed osit features observed.		(2.50)	× × × × × × × × × × × × × × × × × × ×
15.65-16.10	25	С											-	× × × × × × × × ×
16.10	26	D		100	46	38				lami which Extr freq	. 16.10-16.20m: Weak reddish brown nae of cream coloured calcium c ch is harder than the host mudstone. emely weak reddish brown MUDSTC uent fine to medium gravel size po enish grey sandy silt. GRADE II.	arbonate S	16.20	× × × × × × × × × × × × × × × × × × ×
16.80-18.30				X	*	X	-			Bed plan	ding fractures: Medium spaced,	smooth,	(1.00)	
17.20-17.40 17.50	27	C D		87	83	70				lami (<2) the Bed roug	emely weak greenish grey thinly to nated SILTSTONE. Frequent thin mm) of calcium carbonate slightly har surrounding matrix. ding fractures: Closely spaced, un gh, infilled with reddish brown clay. RCIA MUDSTONE GROUP)	laminae der than	(0.55)	X X X X X X X X X X X X X X X X X X X

	Boring P	rogress and	Water Ob					G	aneral	Remarks		
Da	ite Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth					- Terriarks		
							All dimension	ons in metr	es	Scale:	1:25	
Meth Used	: Dynami	ction pit + c sampling	Plan + Used	_	cchio GEC	205	Drilled By:	???	Logged By:	DNeylon + JAlton	Checked By:	AGS

•												
Contract:							Client:			Boreho	ole:	
	EMG Phase 2 ntract Ref: Start: 12.09.								SEGRO			BH27
Contract Ref	ontract Ref: Star				12.09.22	Groun	d Level (m	AOD):	National Grid Co-ordinate:	Sheet:		
7	765514				14.09.22		59.09)	E:446622.8 N:324516.7		5	of 17
Depth (m)	No	Sample:	s & Test Res		Mecha TCR SCR (%) (%)	RQD (%) (r	If sokfill on strug	Water	Description of Strata		Depth (Thick ness)	Material Graphic Legend

- ·		Samples	& Testing		Mech	anical	Log ≝ , <u>§</u>	ē			Depth	
Depth (m)	No	Туре	Results	TCR (%)	SCR (%)	RQD (%)	Tog Backfill & Backf	Water	•	n of Strata	(Thick ness)	Grap Lege
18.30-19.80)			87	83	70			Extremely weak reddish frequent pockets and lens weak greenish grey siltsto (MERCIA MUDSTONE (stratum copied from 17 18.30-18.60m: this with greenish grey siltstor	ses (<15mm) of extremone. GRADE II. GROUP) 75m from previous shen Iy interbedded (<60m	et) - (1.15)	
											18.90	
-				77	33	19			AZCL (MERCIA MUDSTONE (GROUP)	(0.30)	AZ
19.50	29	D							Extremely weak reddish frequent fine gravel size sandy silt. GRADE II. (MERCIA MUDSTONE (pockets of greenish gr	19.20 ith ey -	
19.80-21.30	,				 						(1.90)	
20.40-20.60	30	С		97	41	41					-	
21.30-22.80					 	\ 			Very weak reddish br closely to very closely s generally 5mm to 20mm generally parallel with bed (MERCIA MUDSTONE 0	paced, up to 40mm, l n, of crystalised gypsu lding. GRADE I.	out	
21.85-22.20	31	С		83	83	63					-	
		Progress Boreh	and Water C		nole	Wate	r		General	Remarks		
Date -	Time	Dep	th Depth	(mn		Dept						
Method		ection pi	it + Pla	<u> </u>	\perp				mensions in metres	Scale: 1:2	25	
									lled ??? Logged	DNeylon + Ch	ecked	

		Boring Pro	ogress and						Ge	neral	Remarks		
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth				TICICI	Tomano		
} = >													
								All dimension	no in motro		01	1:25	
5	1 - 411			Di				_		I	Scale:		-
	lethod Ised:	Dynamic	tion pit + sampling	+ Used		cchio GEC	205	Drilled By:	???	Logged By:	DNeylon + JAlton	Checked By:	AGS

Contract:				Client:			Boreho	le:		
EMG Pha	ase 2					SEGRO			BH	127
Contract Ref:	Start:	12.09.22	Ground	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	14.09.22		59.09		E:446622.8 N:324516.7		6	of	17
Camanias 9 Tas	. 	Maaba	مالممند							

		014	End:	14.0			59.09		E.440022.0 N.324310.7	0	
		Sample	es & Testing	I	Mech	anical	Log ∞, 5	<u>_</u>		Depth	Mater
Depth (m)	No		Results			RQD (%)		Water	Description of Strata	(Thick ness)	
22.80-24.30	0			83	83	63	,		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)	-	
23.50-23.80	32	С		100	70	61				-	
24.30-25.80 24.60	33	C		*	¥	X				-	
				97	97	97				(8.20)	
25.80-27.30	0			*	 X		-			-	
				100	100	100			26.30-26.50m: Extremely weak greenish grey siltstone.	-	

	Boring Pro	ogress and	Water Ob	servations			<u> </u>	oporol	Domorko		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth			enerai	Remarks		
Method Used:	Dynamic	ction pit +	Plan + Used		cchio GEO 2	All dimensi Drilled By:	ons in meti	res Logged By:	Scale: DNeylon + JAlton	1:25 Checked By:	AGS



STRUCTURAL SOILS

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		EMG						1	.,			SEGR					BH
Contract Re		E4 4			12.0		Grou	nd Lev)): 	National Gri			Sheet		
	765				14.0		:		9.09			E:4400	022.0 IN	l:324516.	/	7	of 1
Depth		Samples (& resum	ig		SCR	anical RQD	kog و الم الم الم	stru- ntation	Water		De	escription	of Strata		Depth (Thick	
(m)	No	Туре	Resu	ılts	(%)	(%)	(%)	(mm)	ne ne	>						ness)	
27.00-27.3 27.30-28.8 27.50		С			100	100	100				close gene gene (MEI (stra	ely to very o rally 5mm t rally parallel RCIA MUDS tum copied i	closely space of 20mm, with bedo STONE Grown 21.1 27.90m;	<i>0m from prev</i> Thinly lami	40mm, but ed gypsum, I.	- - - - - - -	
28.80-30.3	0				100	77	58							dom orientate erally closely s		- - - - - - - -	
																-	
																-	
29.75-31.1	0 36	C			100	100	87 				SILT pock hard (MEI lamir Wea thick interior Unw	STONE wi ets of calc er than the s RCIA MUDS 29.45-2 nated reddish k to mediur ly laminate	th fine to the control of the contro	Extremely voludistone. reddish broving SANDSTonish grey wea	gravel size rial slightly weathered. weak thinly vn thinly to ONE with	29.30 -(0.45) -29.75 -(1.35) - 31.10	× × × × × × × × × × × × × × × × × × ×
	oring !	Progress a	and Mat	er Oh	Servet	ions											
Date	Time	Boreho	ole Ca	sing	Borel Diam	nole	Wate					Ge	neral	Remark	S		
		Depth		epth	(mr	,	Depth										
								- 11	- 1	All dii	mensi	ons in metre	S	Scale:	1:25		

1, Branch Office - Castleford:				·								
Structural Soils Ltd	Method Used:	Dynamic	ction pit +	Plan + Used	cchio GEO	205	All dimension	ons in metre	s Logged By:	Scale: DNeylon + JAlton	1:25 Checked By:	AGS



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	itu Tests	ē	≈ 7 i i i i		Depth	Material
	Depth	No	Туре	Results	Water	Backfill & Instrumentation	Description of Strata	(Thick ness)	Graphic Legend
	0.10	1	ES	1xT+1xJ+1xV			6.26 6. 1611. 56661166 6411	0.40	\(\bar{1}^{\ilde{\chi}}\cdot\frac{\gamma_{\bar{\chi}}}{\gamma_{\bar{\chi}}\gamma_{\bar{\chi}}}\cdot\frac{\gamma_{\bar{\chi}}}{\gamma_{\bar{\chi}}\gamma_{\bar{\chi}}}\cdot\frac{\gamma_{\bar{\chi}}}{\gamma_{\bar{\chi}}\gamma_{\bar{\chi}}}\cdot\frac{\gamma_{\chi}}{\gamma_{\bar{\chi}}\gamma_{\bar{\chi}}}\cdot\frac{\gamma_{\chi}}{\gamma_{\bar{\chi}}\gamma_{\bar{\chi}}}\cdot\frac{\gamma_{\chi}}{\gamma_{\bar{\chi}}}\cdot\frac{\gamma_{\chi}}{\gamma_{\chi}}\cdot\frac{\gamma_{\chi}}{\gamma_{\chi}}\cdot\frac{\gamma_{\chi}}{\gamma_{\chi}}\cdot\frac{\gamma_{\chi}}{\gamma_{\chi}}\cdot\frac{\gamma_{\chi}}{\gamma_{\chi}}\cdot\frac{\gamma_{\chi}}{\gamma_{\chi}}\cdot\frac{\gamma_{\chi}}{\gamma_{\chi}}\cdot\frac{\gamma_{\chi}}{\gamma_{\chi}}\cdot\frac{\gamma_{\chi}}{\gamma_{\chi}}\cdot\frac{\gamma_{\chi}}{\gamma_{\chi}}\gamma_{\chi}\gamma_{\chi}\gamma_{\chi}}\gamma_{\chi}\gamma_{\chi}\gamma_{\chi}}\gamma_{\chi}\gamma_{\c
- 60	0.50	2	ES	1xT+1xJ+1xV			0.30-0.40m: With low cobble content. Cobbles are subangular of sandstone (<250x150x100mm). Stiff dark reddish brown slightly sandy slightly gravelly silty CLAY. Sand	0.65	0
18:38 TC	- - 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
1/12/22 -	1.20-1.65	4 5	DSPT B	N-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.	- - -	- <u>0.0</u> -
.co.uk. 1	- 1.80 - 2.00-2.45	6	D SPT	N=30			(MERCIA MÜDSTONE GROUP) 0.65m: Cobbles are subangular of dark grey siltstone (<230x150x100mm).	- - -	0.0.
sk@soils.	2.00-2.45 2.00-2.50	7 8	DSPT B					- - -	0.0.
ς, Email: a	- - 2.80 - 3.00-3.31	9	D SPT	13,12/18,22,10				- - - -	00
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	3.00-3.30 3.00-3.50	10 11	DSPT B	for 5mm				- - - -	0.00
Web: wwv	3.80 - 4.00-4.45	12	D SPT	N=50				[_ _ [(7.16)	0.— <u>.</u> 0.0
77-552299	4.00-4.45 4.00-4.50	13 14	DSPT B					-	000
Fax: 0197	- - 4.80 - 5.00-5.38	15	D SPT	6,10/10,10,20,10			5.00-7.95m: very stiff	- - - -	00.0
7-552255,	5.00-5.30 5.00-5.50	16 17	DSPT B	for 5mm				- - - -	0.00
. Tel: 0197	- - 5.80 - - 6.00-6.45	18	D SPT	N=49				- - - -	0.0.0
WF10 1NJ	6.00-6.45 6.00-6.50	19 20	DSPT B					- - - -	0
orkshire, \	- - 6.80 -	21	D					- - - -	000
	- - - - 7.50-7.81		SPT	6,8/17,23,10				- - - -	000
et, Castlefo	7.50-7.81	22	DSPT	for 5mm		*****	Cable percussion borehole terminated at 7.81m depth.	7.81	\$ S
otteries, Pottery Street, Castleford, West	- - - -							- - - -	
otteries, Po	- - -							- -	

lhe		Boring Pro	ogress and	Water Ob	servations		Chiselling / Slow Progress			Canaral Damarka
etord	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General Remarks
Cası	05/00/22	17:00	Depth	Depth	(mm)	Depth	2 20	2.50	, ,	Position cleared using CAT and Genny.
Is Ltd, Branch Office - (05/09/22 06/09/22 06/09/22	1.20 1.20 7.81	3.00	150	Dry Dry Dry	3.30 5.60	3.50 6.00	00:30 00:30	2. Hand dug inspection pit to 1.20m. 3. Drilled using 150mm diameter tools and casing. 4. No groundwater encountered during drilling. 5. Borehole installed with 50mm standpipe on completion. 6. SPT hammer JB05-2022 (<i>E</i> _r = 68.00%) used.	
Sol										All dimensions in metres Scale: 1:50
tructur	Method Inspection pit + Used: Cable percussion					ndo 200	0	Drilled By:	William Nevin	Logged GKalaher Checked By: AGS



BOREHOLE LOG

Contract:				Client:	Borehole	e:			
EMG Pha	se 2				SEGRO			C	P02
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

	Sam	ples a	and In-sit	tu Tests	Water	Backfill	Description of Charts	Depth	Material Graphic
	Depth	No	Туре	Results	Š	Вас	Description of Strata	(Thick ness)	Legend
:2 - 18:39 TC9	- 0.50 - 0.50 - 0.50 - 1.00 - 1.00 - 1.20-1.65	1 2 3 4	ES D ES D T	1xT+1xJ+1xV 1xT+1xJ+1xV N=21			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. (MERCIA MUDSTONE GROUP)	0.35	
k@soils.co.uk. 11/12/2	- 1.20-1.65 - 1.20-1.70 - 1.80 - 2.00-2.45	5 6 7 8	DSPT B D UT _(UT100)	60 blows 100% recovery			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	
/w.soils.co.uk, Email: as	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.	[- - - - - - - - - - - - - - - - - - -	
7-552299, Web: wv	- 3.80 - 4.00-4.45	13 14	D UT _(UT100)	90 blows 100% recovery				- ()	
77-552255, Fax: 01977	- 4.60 - 4.60-5.00 - 5.00-5.31 - 5.00-5.30 - 5.00-5.50	15 16 17 18	D B SPT DSPT B	5,7/12,28,10 for 5mm	1 2		5.00-5.30m: occasional fine gravel size fragments of dark brown fossilised organic matter.	- - - - - - - -	
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	- 5.80 - 6.00-6.37 - 6.00-6.40 - 6.00-6.50	19 20 21 22	D SPT DSPT B	8,14/25,25,25 for 70mm	<u></u>		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)	6.00	
otteries, Pottery Street, Castleford, West Yorks	- 7.50-7.63 - 7.50-7.63	23	SPT	25/75 for 55mm			7.00-7.63m: gravel size fraction extremely weak to very weak Cable percussion borehole terminated at 7.63m depth.	7.63	
otteries, Po								- - -	

The		Boring Pro	ogress and	Water Ol	servations		Chisell	ing / Slow F	Progress	General Remarks				
eford	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	Generali	Remarks			
ast			Depth	Depth	(mm)	Depth			(1111.11111)	1 Desition algored using C	AT and Conny			
Date O37/09/22 O7/09/22 O		16:00	7.63	1.50	150	-	3.40 6.80	3.60 7.00	00:30 00:30	 Position cleared using C 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.			
So										All dimensions in metres	Scale: 1:50			
tructural	Method Used:		tion pit -			ando 200		Drilled By: v	/ Nevins	Logged RStan By:	Checked By: AGS			

Contract:				Client:	Olient:				
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	<u> </u>	00.		⊏Hu.	00.0	V	JU.Z I L.TTUZUT.J IN.JZJZJJ.I	•	OI I
	Samp	oles a	nd In-sit	u Tests	Water	Backfill	Description of Otroto	Depth	Material
	Depth	No	Туре	Results	M	Bac	Description of Strata	(Thick ness)	Graphic Legend
	0.10	1 2	ES D	1xT+1xJ+1xV			TOPSOIL 0.20-0.35m: becoming stiff.	0.35	1/ · ½ · ½ · ½ · ½ 1/ · ½ · // · . ¼ · //
-	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	× •× •×
IN. 11/12/22 - 10:33 10	- 1.00 - 1.00 - 1.00 - 1.20 - 1.20-1.65 - 1.20-1.65	5 6 7 8 10 9	B ES D B SPT B DSPT	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	
2:00:00	- 1.80 - 2.00-2.45 -		D 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	- - - -	
	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	- - - - - - -	
	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)	
	5.00-5.45 5.00-5.45 5.00-5.50	21 22	SPT DSPT B	N=45				- - - - - -	
	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	
in the second of	6.80 - 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)	
,	7.00-7.30 7.30-7.61 7.30-7.61	28	B SPT DSPT	13,12/20,40,15 for 10mm		///. ///,	Cable percussion borehole terminated at 7.61m depth.	7.61	<u> </u>
oueries, r ouery oueer									

<u>ש</u>		Boring Pr	ogress and	Water O	bservations		Chiselling / Slow Progress			General Remarks			
	Date	Depth			Borehole Diameter	Water Depth	From	То	Duration (hh:mm)	General	Remarks		
s Ltd, Dialicii Oilice - Cas	08/09/22 08/09/22 09/09/22	08:00	7.00 7.00	Depth 1.50 1.50 1.50	(mm) 150 150 150	Dry Dry Dry	2.60 7.00	3.00 7.30	00:30 00:30	Position cleared using CAT and Genny. Hand dug inspection pit to 1.20m. Drilled using 150mm diameter tools and casing. No groundwater encountered during drilling. Borehole backfilled with bentonite on completion. SPT hammer JB05-2022 (<i>E</i> _r = 68.00%) used.			
500										All dimensions in metres	Scale: 1:50		
oll ucture	Method Used:	Cable p	ercussio	Pla Use		ando 200	0	Drilled By: V	V Nevins	Logged RStan By:	Checked By: AGS		

BOREHOLE LOG

Contract:				Client:	Dlient:					
EMG Pha	se 2				SEGRO					
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/	- - - - - 2.60 - - 2.60-3.00	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									

ĺ		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	Conoral Domonico
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General Remarks
	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 casing. Groundwater strike at 17m. Rose to 10.20m after 20 minutes. Borehole was backfilled with bentonite seal upon completion. SPT hammer JB05-2022 (<i>E_r</i> = 68.00%) used.
) I	Method Used:		tion pit - ercussic			ando 200	0	Drilled By: V	Vill Nevins	All dimensions in metres Scale: 1:50 Logged GKalaher Checked By: AGS

BOREHOLE LOG

Contract:				Client:	Client:					
EMG Phas	se 2				SEGRO					
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-sit	tu Tests	Water	kfill		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>1</u>		(stratum copied from 2.20m from previous sheet) 9.00-11.80m: becoming reddish brown	- - - - - - -	
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	- 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				- - - - - - - -	
ww.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	- - - - - - -	
1977-552299, Web: w	- 13.00-13.45 - 13.00-13.45 - 13.00-13.50 - 13.50	43 44 45	SPT DSPT B D	N=98				- - - - - - -	
977-552255, Fax: 0	- 14.00-14.45 - 14.00-14.45 - 14.00-14.50 - 14.50	46 47 48	SPT DSPT B D	N=75				- - - - - - -	
WF10 1NJ. Tel: 01	- - 15.00-15.45 - 15.00-15.45 - 15.00-15.50	49 50	SPT DSPT B	N=58				- - - - - - -	
Vest Yorkshire,	- 15.80 - 16.00-16.50	51 52	D B				Dense SAND AND GRAVEL. (Driller's Description)	16.00	
t, Častleford, We	- 16.50-16.95 - 16.50-16.95 - 16.50-17.00	53 54	SPT DSPT B	N=88	<u></u>		Coble marging horsehole to make at 47,00m depath	(1.00) - - 17.00	
Potteries, Pottery Street,	- 17.00 	55	D				Cable percussion borehole terminated at 17.00m depth.	- - - - - -	

	Boring Progress and Date Time Borehole Depth			servations		Chisel	ling / Slow	Progress	Conoral	Domork	•
Date	e Time	Borehole	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remark	S
		Ворит	Ворит	(11111)	Ворит						
										Т	
									All dimensions in metres	Scale: 1	:50
Metho		ection pit					Drilled		Logged GKalaher	Checked	
Used:	Used: Cable percussion			Used: Dando 200			By: V	Vill Nevin	s By:	Ву:	AGS

BOREHOLE LOG

Contract:				Client:		Borehole):		
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 .a
9, 44	4.00-4.39		SPT	4,6/14,15,17,6 for 10mm				-	× × ×
77-332289, 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,	- - - -							-	

٦.											
The		Boring Pr	ogress and	Water C	bservations		Chise	ling / Slow	Progress	Canaral	Domorko
Castleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
astl			Depth	Depth	(mm)	Depth			(1111.11111)	Position cleared using (CAT and Canny
Ltd, Branch Office -	27/09/22	14:00	6.41	6.20	150	Dry	6.00	6.20	00:30	President deared using value and dug inspection pit Trilled using 150mm di No groundwater encour Borehole backfilled with SPT hammer DS5-1-22	t to 1.20m. ameter tools and casing. ntered during drilling. n bentonite.
Sc										All dimensions in metres	Scale: 1:50
tructural Soils	Method Used:		tion pit			ando 200	10	Drilled By:	Nathan Topping	Logged RStan By:	Checked By: AGS



BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			C	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

Depth	Ī	Samp	oles a	nd In-si	tu Tests	iter	fill &		Depth	Material
0.00-0.50		Depth	No	Туре	Results	×	Back Inst menta	Description of Strata	(Thick ness)	Graphic Legend
0.20	- [0.00-0.10						TOPSOIL	0.30	1
Subangular to subrounded fine to coarse of mixed lithologies including sandstone, siltstone and quartzite. 1.3	L		2					Stiff fissured dark greyish brown sandy gravelly silty CLAY with pockets of chalk. Sand is fine to coarse. Gravel is subangular to subrounded	-	xo : xo
1.30	+ (0.50	102	ES				subangular to subrounded fine to coarse of mixed lithologies including	(1.00)	×
1.30	ᆫ						:•: H•:•	sanusione, sinsione and quarzile.	-	× × ×
1.80	-		5	UT				Stiff fissured dark grevish brown sandy gravelly CLAY. Sand is fine to	1.30	0000
2.00-2.45 7 DSPT 2.00-2.45 7 DSPT 2.00-2.45 7 DSPT 2.00-2.45 8 D	- 1				40 % recovery			coarse. Gravel is subangular to subrounded fine to coarse of mixed	-	20.0
2.75 9 D 3.00-3.45 10 UT 28 blows 50% recovery 3.65 11 D 4.00-4.45 12 DSPT 1 SPT 1 SPT 1 SPT 1 SPT 1 Spt 1	E		0					intrologico indicang canadono ana init with occasional occasional	-	<u>o-</u>
2.75 9 D 3.00-3.45 10 UT 28 blows 50% recovery 3.65 11 D 4.00-4.45 12 DSPT 1 SPT 1 SPT 1 SPT 1 SPT 1 Spt 1	1 2	2.00-2.45		DSPT	N=23				Ė	<u> </u>
2.75 9 D 3.00-3.45 10 UT 28 blows 50% recovery 3.65 11 D 4.00-4.45 12 DSPT 1 SPT 1 SPT 1 SPT 1 SPT 1 Spt 1	<u> </u>	2.00-2.45	8	D					ŀ	0.0.0
4.00-4.45	ŧ:	2.75	9	D					-	· · · · · · · · · · · · · · · · · · ·
4.00-4.45	+;	3.00-3.45	10	UT					-	0.0.9
4.00-4.45	F				50% recovery				[0,00
4.00-4.45	F;	3.65	11	D					(4.65)	
4.00-4.45 12 DSPT 4.00-4.45 13 B B 4.75 14 D 5.00-5.45 15 UT 26 blows 50% recovery 5.65 16 D 5.00-6.45 6.00 105 ES 6.00 17 DSPT 6.00 18 B B 6.00 18 B B 6.00 17 DSPT 6.00 18 B B B 6.00 18 B B B B B B B B B B B B B B B B B B	E				N-20				-	0.00
4.75	1	4.00-4.45		DSPT	IN=30					20.3
5.00-5.45 15 UT 26 blows 50% recovery 5.65 16 D 6.00-6.45 SPT N=37 6.00 17 DSPT 6.00 18 B 7.00 19 D 7.50-7.95 20 UT 50 blows 20% recovery 7.70 106 ES Stiff to very stiff reddish brown sandy gravelly silty CLAY. Sand is fine. Gravel is angular to subangular fine to coarse of mudstone.	Ę,	+.00-4.45	13	ь					-	0.0.0
5.65	-	4.75	14	D					-	0= :-0:0
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. The control of the coarse of mixed lithologies included sandstone, siltstone and mudstone. The coarse of mixed lithologies included sandstone, siltstone and mudstone. The coarse of mixed lithologies included sandstone, siltstone and mudstone. Stiff to very stiff reddish brown sandy gravelly silty CLAY. Sand is fine. Gravel is angular to subangular fine to coarse of mudstone. Occasional	Ę.	5.00-5.45	15	UT					-	
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. The set of the set	ŧ				007010000019					<u></u>
Set of the set of the	ŧ,	5.65	16	D						- 0.50 - 1.50
Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies included sandstone, siltstone and mudstone. 105	+	6.00-6.45		SPT	N=37			Stiff fissured orangish brown mottled grey gravelly sandy clayey SILT.	5.95	× · × · · · ·
7.50-7.95 20 UT 50 blows 20% recovery 7.70 106 ES 20% recovery Gravel is angular to subangular fine to coarse of mudstone. Occasional	-	3.00		ES				Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies included sandstone, siltstone and mudstone.	-	×
To the second of	-	6.00	18					-	- (4.75)	* * * * * * * * * * * * * * * * * * *
To the second of	Ė					1			(1.75)	* ^ * ^ * ₀
	E	7.00	19	D		\$\breve{\Pi}\$			E	× × × ×
	ŧ.	7 50_7 05	20	ПТ	50 blove				- - - -	× × ×
	Ł								7.70	×
	F	0	100	_0				bands of grey siltstone.	F	×
gg	F							(MERCIA MUDSTONE GROUP)	-	× , ×
	-	3.50	21	D		,			-	×
	Ē					≰			<u> </u>	X. O. X

- ne		Boring Pro	ogress and	Water O	bservations		Chise	lling / Slow	Progress	Conoral	Domorko
stletord:	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Remarks
Solls Ltd, Branch Office - Ca	28/09/22 29/09/22 29/09/22	Date Time Depth Depth 8/09/22 18:00 11.26 11.00 9/09/22 08:00 11.26 11.00		150 150 150	Depth 10.60		11.00	00:30	Position cleared using (Hand dug inspection pit Borehole drilled using 1 Groundwater struck at 7.20m depth after 20 m Borehole installed with 6. SPT hammer DS5-1-22 All dimensions in metres	t to 1.20m. 50mm tools and casing. 9.00m depth, rising to inutes. 50mm standpipe.	
Structura	Method Used:		tion pit ercussio			ndo 200	0	Drilled By:	Nathan Topping	Logged RStan By:	Checked By: AGS

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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 Strata	Depth (Thick	Material Graphic
	Depth	No	Type	Results	>	Bacl Ins		ness)	Legend
_	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)	× · · ×
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 - 18:39 TC9	10.00	24	D				(Stratum copied from 7.70m from previous sneet)	- - - - -	- & -
1/12/2	10.50-10.83		SPT	12,12/24,51,20 for 30mm				-	× ×
~	10.50-10.83	25	DSPT						xoxo
3.CO.U	- 11.00-11.26 -		SPT	12,14/29,71 for 50mm				11.26	x x
ask@soils	11.00	107 26	ES DSPT	10/ 00/11/11			Cable percussion borehole terminated at 11.26m depth.	-	
t, Email: a	- - -							- - -	
oils.co.ul	- - -							- - -	
b: www.s	- - -							- - -	
2299, We	- - -							- - -	
1977-55	- - -							- - -	
5, Fax: 0	- - - -							- - - -	
7-55225	- - -							- - -	
Tel: 0197	- - -							- - -	
10 1NJ.	- - -							= - - -	
ire, WF	-							- - -	
Yorksh	- - -							-	
i, West	-							_	
stleforo	- - -							-	
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y Stre	- - -							- - -	
Potter	- - -							-	
tteries,	-							-	

2		Boring Pro	ogress and	Water Ob	servations		Chise	lling / Slow	/ Progress	Conoral	Domorl	.	
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hhumm)	General	Remair	(S	
Š	Date	'	Depth	Depth	(mm)	Depth			(hh:mm)				
ز.													
2													
5													
5													
5													
Í													
2											1		
5										All dimensions in metres	Scale:	1:50	
i di	Method							Drilled	Nathan	Logged RStan	Checked		
5	Used:					ando 200	0	Ву:	Topping	Ву:	Ву:		AGS

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		1	of	2

	Samp	oles a	nd In-sit	u Tests	Water	₩.	D	Depth	Material
	Depth	No	Туре	Results	N N	Backfill	Description of Strata	(Thick ness)	Graphic Legend
601 60.	- 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 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	
30.uk. 11/12/22 - 10	- - 1.30 - 1.50-1.95 - - -	5 6	D UT _(UT100)	150 blows 89% recovery				- - - - - - -	
ห, ⊏iiiaii. asห@soiis.ต	- 2.30 - 2.50-2.95 - 2.50-2.95 - 2.50-2.95	7 10 9	D SPT B DSPT	N=20				- - - - - - -	
s.co.u	3.20	11	D					-	0.00
w.sol	3.50-3.95	12	UT _(UT100)	100 blows 89% recovery				-	- 0-0 - 0-0-1
e, web. ww	3.50-3.95	13	D	00 % Todovary				- - - -	0 -00
95229	- 4.30 - 4.50-4.95	14	D SPT	N=21				-	
77-55225, Fax. 01977-	4.50-4.95 - 4.50-4.95 - 4.50-4.95	16 17	DSPT B	N-21				-	0. 00 0. 00 0. 00 0. 00 0. 00
3. U.S	- 5.70	18	D					[-	<u>~~~~</u>
. CN	6.00-6.45	19	UT _(UT100)	100 blows 93% recovery				- - -	0.0.0
stronkstille, write	6.45-6.55	20	D					(13.00)	
onery Sireet, Cashelord, Wes	7.30 - 7.50-7.95 - 7.50-7.95 - 7.50-7.95 	21 23 24	D SPT DSPT B	N=20	<u>1</u>			- - - - - - - - - - - - -	
elles, Po	8.70	25	D					- - -	
								-	

	Boring Pr	ogress and	Water Ob	servations		Chisel	lling / Slow F	Progress	Canada Damada
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General Remarks
30/09/22 03/10/22 03/10/22	18:00 08:00 15:00	8.00 8.00 14.21	7.50 7.50 9.00	200 200 200	Dry Dry -	13.50 14.00 01:C			 Position cleared using CAT and Genny. Hand dug inspection pit to 1.20m. Drilled using 150mm diameter tools and casing. Groundwater struck at 13.40m depth, rising to 8.40m depth after 20 minutes. Borehole backfilled with bentonite upon completion. SPT hammer AR3104-2022 (E_r = 64.00%) used.
						Ш			All dimensions in metres Scale: 1:50
Method	Inspec	ction pit -	+ Plan	ıt			Drilled		Logged RStan Checked

Jonny Hutt By:

By:

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 |

Used:

Used:

Cable percussion

Dando 3000

Contract:				Client:		Borehole) :		
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

	Samp	oles a	nd In-sit	tu Tests	Water	Backfill	Description of Strata	Depth (Thick	Material Graphic
	Depth	No	Туре	Results	>	Ba	·	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	28 30 31	D SPT DSPT B	N=43				- - - - - - - - -	0-00
3.dk, E1116	11.70		D UT _(UT100)	150 blows 83% recovery				- - - - - - -	000 -200
200' WWW.301	12.30-12.40	34	D		⊉		Light brownish grey slightly sandy clayey SILT. Sand is fine.	13.30	0 - 00 - 00 - 00 - 00 - 00 - 00
	13.40 13.50-13.78 13.50-13.78 13.50-13.80	35 37 38	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)	_ *× <u>-</u> -×
	13.50 13.50 14.00-14.21	39 39 39	EW W SPT	25/54,46 for 60mm			Cable percussion borehole terminated at 14.21m depth.	14.21	
								- - - - - -	
	- - - -							- - - -	
								- - - - -	
								- - - - - -	
L					-	-			

	Boring Pro	ogress and	Water Ob	servations		Chisel	ing / Slow	Progress	Conoral	Domorl		
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Reman	KS	
									All dimensions in metres	Scale:	1:50	
Method Used:	Inspec Cable p	tion pit - ercussio	Plan Used	Plant Used: Dando 300			Drilled By: Jonny Hut		Logged RStan By:	Checked By:		AGS

BOREHOLE LOG

Contract:			Client:	Borehole:				
EMG Pha	se 2			SEGRO			CF	208
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		14	End:	UO.U	9.22		!	of Z	
	Samp	ples a	nd In-sit	tu Tests	Water	Backfill	Description of Strate	Depth	Material Graphic
	Depth	No	Туре	Results	×	Вас	Description of Strata	(Thick ness)	Legend
	0.30-0.50	1 2	В				TOPSOIL	(0.85)	$\frac{\sqrt{1}}{\sqrt{1+\sqrt{1+2}}} \cdot \frac{\sqrt{1}}{\sqrt{1+2}} \cdot \frac{\sqrt{1+2}}{\sqrt{1+2}} \cdot \sqrt$
2	0.50	3	ES	1xT+1xJ+1xV			Reddish brown gravelly SAND. Sand is fine to coarse. Gravel is	0.85	<u>½· ¼½· ¾½</u>
10.40	1.00-1.20	4 5	B D				subangular to subrounded fine to coarse of quartzite and rare chalk.	1.40	. O
- 77/7///	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	× × × × × × × × × × × × × × × × × × ×
asn@solls.co.un.	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)	
. don	2.50	14	D				Very stiff brown mottled grey thinly and thickly laminated CLAY.	2.70	
, L	- - 3.00-3.45	15	U ₍₁₀₀₎	49 blows			very sun brown motified grey trining and trilexity lanimated ODA1.	- (0.50) - 3.20	
www.solls.co.ur	3.50	16	D	100% recovery			Brown slightly gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse of quartzite and other lithologies.	(0.80)	
D. WW	=							4.00	
1911-002239, We	4.00-4.45 4.00-4.45 4.00-4.50 4.50	18 19 20	SPT DSPT B D	N=23			Stiff brown mottled grey thinly and thickly laminated CLAY. Locally slightly gravelly, gravel is subangular and subrounded of mixed lithologies.	- - - - - -	
.200, I av. u	5.00-5.50	21	В					(2.10)	
. 01977-052	5.50	22	D					-	
W 10 11W0. 1G1	6.00-6.45 6.00-6.45 6.00-6.50	24 25	SPT DSPT B	N=25			Stiff brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of quartzite and other	- 6.10 - - 6.45	
, L	6.50	26	D				\lambda lithologies. Medium dense reddish brown slightly gravelly silty fine and medium SAND. Gravel is subangular to subrounded fine to coarse of quartzite and other lithologies.	-	* · · · × · · · · · · · · · · · · · · ·
N COL	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 size pockets of grey clay.	(2.05)	× · · · × □ · × × · Ø · •
Casualor d,	7.50-7.95 7.50-7.95 7.50-8.00	29 30	SPT DSPT B	N=27	≚ 1		SIZO POUNCIS OF GIEY CIAY.	- - -	×0
	8.00	31	D		Ţ			8.50	· O _X · · · · · · · · · · · · · · · · · · ·
oueries, rouery	8.50	32	D				Description on next sheet	(1.00)	* · · · × · · · · · · · · · · · · · · ·

2		Boring Pr	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	Conoral	Domarko
stletord:	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)		Remarks
Soils Lta, Branch Office - Ca	06/09/22 07/09/22 07/09/22 08/09/22 07/09/22	17:00	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		Position cleared using 0 Hand dug inspection pit Drilled using 150mm dia No groundwater encour Borehole backfilled with SPT hammer AR3469-2 All dimensions in metres	to 1.20m. ameter tools and casing. ntered during drilling. bentonite on completion.
tructural	Method Used:		tion pit			2000 M	lark 2	Drilled By: B ¢	en Wilson	Logged RStan	Checked By:

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STRUCTURAL SOILS

BOREHOLE LOG

Contract:				Client:		Borehol	e:		
EMG Pha	se 2				SEGRO			CF	P08
Contract Ref:	Start:	06.09.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
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						

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slo	w Progress	General	Domorko	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remarks	•
			•								
									All dimensions in metres	Scale: 1:	50
Method Used:		tion pit - ercussio			2000 M	ark 2	Drilled By:	Ben Wilson	Logged RStan By:	Checked By:	AGS

BOREHOLE LOG

Contract:				Client:		Borehole	:		
EMG Pha	se 2				SEGRO			CI	P09
Contract Ref:	Start:	29.09.22	Groun	nd 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	Description of Strate	Depth (Thick	Material Graphic
	Depth	No	Type	Results	W	Вас	Description of Strata	ness)	Legend
	0.00-0.50 0.01 0.20	1 101 2	B ES D				TOPSOIL Stiff reddish brown mottled grey sandy silty CLAY. Sand is fine to	0.30	× · · · · · · · · · · · · · · · · · · ·
- 60 - 60	0.50-1.00 0.50 0.70	3 102 4	D ES D				coarse. Gravel is angular to subangular fine mudstone with pockets of siltstone.	- - - -	× · · ×
2/22 - 18:40 1C9	- 1.00 - 1.20-1.65 - 1.20-1.65 - 1.20-1.65	103 5 6	ES SPT DSPT B	N=11				- - - -	- x x - x - x
 	1.75	7	D					(3.00)	<u> </u>
ns.co.u	2.00-2.45	8	UT	28 blows 80% recovery				-	×
all: ask@solls.co.uk.	2.45	9	D					- - - -	xx
co.uk, Email:	3.00-3.29 3.00-3.45	10	SPT DSPT	7,8/10,90 for 60mm				3.30	× · · ×
: www.solls.	3.00-3.45 3.30 3.75	11 104 12	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	* 3. 3 × * 2. 3 × * 3. 3 ×
7-552299, Web: www.	-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.	- - - - -	× •× • × •× • × • × • × • × •
ax: 0197	4.75 5.00-5.45	15	D SPT	N=22				(2.35)	× × × × × × ×
/-552255, F	5.00-5.45 5.00-5.45 5.00-5.45	16 17	DSPT B	N-22				- - - -	×°××× × × ×
1810:18	5.75	18	D					-	× × × × ×
nire, WF10 1NJ. Iei:	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 - - - - -	
<u> </u>	- - 7.00	21	D					(2.55)	
ا د	7.50-7.95 7.50-7.95 7.50-7.95	22 23	SPT DSPT B	N=81				- - - -	
Street,	8.00-8.36	106	SPT	25/31,24,26,21 for 60mm				- - -	
Pottery Street,	8.00 8.00-8.36 8.40-8.65	106 24	ES DSPT SPT	25/26,32,54,8			Cable persuasion herebale terminated at 0.05 and anth	8.65	<u> </u>
Potteries,	8.40-8.65	25	DSPT	for 0mm			Cable percussion borehole terminated at 8.65m depth.	-	

lhe		Boring Pro	ogress and	Water O	oservations		Chisel	ling / Slow l	Progress	Canaral Damarka
letord:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General Remarks
ils Ltd, Branch Office - Cast	29/09/22	Depth Depth (mm) Dep				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 (<i>E_r</i> = 61.00%) used.
So										All dimensions in metres Scale: 1:50
tructur	Method Inspection pit + Used: Cable percussion				nt ·d: D a	ando 200	0	Drilled By:	Nathan Topping	Logged GKalaher Checked By:



BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			C	P10
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

1.50-1.95 1.50-	ľ								1	
TOPSOIL TOPS		Samp	oles a	nd In-sit	tu Tests	ē	를 노틸		Depth	
TOPSOIL TOPS	-	D 41-	NI.	т	D 14 -	Şa	ckf.	Description of Strata	١ .	
TOPSOIL TOPS		Depth	No	Type	Results	>	Ba n		ness)	Legend
0.10		- 0.40.0.20	_	Г.				TOPSOIL	0.20	7/1/2.7/1/2.7
101 23 23 25 25 25 25 25 25								Stiff brown slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel	-	<u> </u>
0.30 0.00 0.3 0.2 0.5 0.2 0.5 0					1xT+1xJ+1xV			is subangular to subrounded fine to coarse of mixed lithologies including	(0.60)	ļ
0.80	ł		3	В				sandstone, mudstone and quartz.		
1.50-1.95 1.50-	5				1xT+1xJ+1xV			Ctiff light have a conduction of AV Cond in fine to come Canadia	0.80	<u></u>
1.50-1.95 1.50-	-	- 0.50 -0.50-1.20					 ⊢	subangular to subrouded fine to coarse of sandstone siltstone	Ė	<u> </u>
1.50-1.95 1.50-	0.40				1xT+1xJ+1xV				ļ.	<u>-</u>
1.50-1.95 8 DSPT 1.50-1.95 9 B B	-						於田兰	madolorio and oriant.	t	<u></u>
1.50-1.95 8 DSPT 1.50-1.95 9 B B	77.	1 50 1 05		SDT	N-25				}	
2.50-2.95 10 UT _{U,Trico} 100% recovery 100%	-		8		11-23				(2.00)	
Stiff fissured greyish brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone and sillstone. 1.20	-								(=:,	
Stiff fissured greyish brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone and sillstone. 1.20	co.uk.	-					心用心		-	
Stiff fissured greyish brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone and sillstone. 1.20		-							E	<u></u>
Stiff fissured greyish brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone and sillstone. 1.20	250	-							-	
Stiff fissured greyish brown slightly gravelly slightly sandy CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone and sillstone. 1.20	ask@solls.	2.50-2.95	10	UT _(UT100)	125 blows				F	
2.95.3.05	σ	-		(31100)	100% recovery		1:用::1		2.80	<u></u>
3.00 104 ES 1xT+1xJ+1xV 3.00 104 ES 1xT+1xJ+1xV 150 losp 1 15 B 4.00 16 D 4.004.40 17 B 1xT+1xJ+1xV 150 losp 1 100% recovery 14.95-5.10 19 D D SPT 6.00-6.12 22 DSPT 6.00-6.50 23 B 1xT+1xJ+1xV 150 losp 1 100	<u>a</u>	-	ا ر ا	_			以用::}	Stiff fissured greyish brown slightly gravelly slightly sandy CLAY. Sand	Ł	<u> </u>
Stiff brown mottled grey sandy gravelly CLAY. Sand is fine to coarse. Stiff brown mottled grey sandy gravelly CLAY. Sand is fine to coarse. Stiff brown mottled grey sandy gravelly CLAY. Sand is fine to coarse. Stiff brown mottled grey sandy gravelly CLAY. Sand is fine to coarse. Stiff brown mottled grey sandy gravelly CLAY. Sand is fine to coarse. Stiff brown mottled grey sandy gravelly CLAY. Sand is fine to coarse. Stiff brown mottled grey sandy gravelly CLAY. Sand is fine. Stiff brown mottled grey sandy gravelly CLAY. Sand is fine. Stiff reddish brown mottled grey gravelly sandy silty CLAY. Sand is fine. Stiff reddish brown mottled grey gravelly sandy silty CLAY. Sand is fine. Stiff reddish brown mottled grey gravelly sandy silty CLAY. Sand is fine. Stiff reddish brown mottled grey gravelly sandy silty CLAY. Sand is fine. Stiff reddish brown mottled grey gravelly sandy silty CLAY. Sand is fine. Stiff reddish brown sandy subangular to subrounded, predominantly coarse, gravelly sandy siltstone, and siltstone and siltstone. Stiff reddish brown sandy subangular to subrounded, predominantly coarse, gravelly sandy siltstone, and siltstone and siltstone, and siltstone and siltstone, and siltstone and siltstone, and siltstone and siltstone. Stiff reddish brown sandy subangular to subrounded, predominantly coarse, gravelly sandy siltstone, and siltstone and siltstone and siltstone. Stiff reddish brown sandy subangular to subrounded, predominantly coarse, gravelly sandy siltstone, and siltstone and siltstone. Stiff reddish brown sandy subangular to subrounded, predominantly coarse, gravelly sandy siltstone, and siltstone and siltstone. Stiff reddish brown sandy subangular to subrounded, predominantly coarse, gravelly sandy siltstone, and siltstone and siltstone. Stiff reddish brown sandy subangular to subrounded, predominantly coarse, gravelly sandy siltstone, Stoff reddish brown sandy subangular to subrounded, predominantly coarse, gravelly sandy siltstone, Stoff reddish bro	ž						l::H::}		-	
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3.50-3.95 14 B	Si	-							(1.20)	
3.50-3.95 15 B 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00 17 B 5.50 18 UT _(UT100) 100% recovery 100% recov	×. v		ا ا		N=37		₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽		t	
4.00	§	3.50-3.95 3.50-3.95								<u></u>
4.90 105 ES 1X1+1XJ+1XV 150 blows 150 blows 150 blows 150 blows 1600% recovery 4.95-5.10 19 D (3.30) 5.50 20 D (3.30) 6.00-6.12 SPT 25/100 for 75mm for 7	i i	_					比問題	Off have a still down and have a still OLAV Counting for the	4.00	÷ ÷ ;
4.90 105 ES 1X1+1XJ+1XV 150 blows 150 blows 150 blows 150 blows 1600% recovery 4.95-5.10 19 D (3.30) 5.50 20 D (3.30) 6.00-6.12 SPT 25/100 for 75mm for 7	aa, web.							Still brown mottled grey sandy gravelly CLAY. Sand is fine to coarse.	ļ.	<u> </u>
4.50-4.95 18 UT _(UT100) 150 blows 100% recovery 4.95-5.10 19 D 5.50 20 D 6.00-6.12 SPT 25/100 for 75mm 6.00-6.50 23 B 7.00 24 D 7.30 106 ES 3TXT+1xJ+1xV 7.50-7.83 26 SPT 6.10/25,25.50 for 30mm 7.50-7.83 26 DSPT 7.50-8.00 28 B 8.00-8.50 29 B 8.00-8.50 29 B 8.50-9.00 29 B 8.50-9.00 29 B 8.50-9.00 29 B 8.50-9.00 29 B 150 blows 100% recovery 100% recov	36			ES	1xT+1xJ+1xV			Graver is time of mixed inflologies including sandstone, sinstone, film.	<u> </u>	-
4.95-5.10	200	_	1 1		150 blows				-	<u></u>
4.95-5.10		- 4.50-4.55	''	O I (UT100)			ŀ∷∃∷		F	
5.50 20 D 6.00-6.12 SPT 25/100 for 75mm 7.00 24 D 7.30 106 ES 1xT+1xJ+1xV 7.50-7.83 SPT SPT 6,00-5.00 27 B B 8.00-8.50 28 B 8.50-9.00 29 B B (3.30) (3.	5	-			,		心目:::1		-	
6.00-6.12 SPT	ğ.	4.95-5.10	19	D					-	
6.00-6.12 SPT	'n	-							_	
6.00-6.12 SPT	220	-							E	<u></u>
6.00-6.12	?	- 5.50	20	D			心用心		(3.30)	
6.00-6.12	8	- -				1			-	
6.00-6.12 22 DSPT B for 75mm 7.00 24 D 7.30 106 ES SPT 6,10/25,25,50 for 30mm 7.50-7.83 26 DSPT 8 B 8.00-8.50 28 B Reddish brown sandy subangular to subrounded, predominantly coarse, GRAVEL of mixed lithologies including sandstone, mudstone, siltstone and flint. Sand is fine to coarse. With low cobble content of flint. Description on next sheet		-				¥			_	<u> </u>
6.00-6.12 23 DSPT B 7.00 24 D 7.30 106 ES 1xT+1xJ+1xV 6,10/25,25,50 for 30mm 7.50-7.83 26 DSPT 8 B 8.00-8.50 27 B B 8 8.50-9.00 29 B B 8.50-9.00 29 B B DSPT 6.00-6.50 23 B B 1xT+1xJ+1xV 6.10/25,25,50 for 30mm Tight reddish brown mottled grey gravelly sandy silty CLAY. Sand is fine. Gravel is fine of mudstone and siltstone. Reddish brown sandy subangular to subrounded, predominantly coarse, GRAVEL of mixed lithologies including sandstone, mudstone, siltstone and flint. Sand is fine to coarse. With low cobble content of flint. Description on next sheet	-	6.00-6.12		SPT					t	
6.00-6.50 23 B 7.00 24 D 7.30 106 ES 1xT+1xJ+1xV 6,10/25,25,50 for 30mm 7.50-7.83 26 DSPT 7.50-8.00 27 B 8.00-8.50 28 B 8.50-9.00 29 B 8.50-9.00 29 B Description on next sheet TXT+1xJ+1xV 6,10/25,25,50 for 30mm TXT+1xJ+1xV 6,10/25,25,50 for 30mm Reddish brown mottled grey gravelly sandy silty CLAY. Sand is fine. (0.70) Reddish brown sandy subangular to subrounded, predominantly coarse, GRAVEL of mixed lithologies including sandstone, mudstone, siltstone and flint. Sand is fine to coarse. With low cobble content of flint.		6 00-6 12	22	DSPT	TOT /5MM				}	
7.00 24 D 7.30 106 ES 1xT+1xJ+1xV 6,10/25,25,50 for 30mm 7.50-7.83 26 DSPT 7.50-8.00 8.00-8.50 28 B 8.50-9.00 29 B 8.50-9.00 29 B 1xT+1xJ+1xV 6,10/25,25,50 for 30mm 1xT+1xJ+1xV 6,10/25,25,50 for 30mm 7.30 7.30 7.30 7.30 7.30 7.30 7.30 7.30	2								F	
7.30 7.50-7.83 7.50-7.83 7.50-8.00 8.00-8.50 7.30 106 ES 1xT+1xJ+1xV 6,10/25,25,50 for 30mm 107.50-8.00 8.00-8.50 108 ES 1xT+1xJ+1xV 6,10/25,25,50 for 30mm 109 ES 1xT+1xJ+1xV 6,10/25,25,50 for 30mm 100 ES 1xT+1xJ+1xV 1xV 6,10/25,25,50 for 30mm 100 ES 1xT+1xJ+1xV 1xV				·			I `H:1		ļ.	<u> </u>
7.30 7.50-7.83 7.50-7.83 7.50-8.00 8.00-8.50 7.30 106 ES 1xT+1xJ+1xV 6,10/25,25,50 for 30mm 107.50-8.00 8.00-8.50 108 ES 1xT+1xJ+1xV 6,10/25,25,50 for 30mm 109 ES 1xT+1xJ+1xV 6,10/25,25,50 for 30mm 100 ES 1xT+1xJ+1xV 1xV 6,10/25,25,50 for 30mm 100 ES 1xT+1xJ+1xV 1xV	OINSIII C	-					比出의		ţ	<u> </u>
7.30 7.50-7.83 7.50-7.83 7.50-8.00 8.00-8.50 7.30 106 ES 1xT+1xJ+1xV 6,10/25,25,50 for 30mm 107.50-8.00 8.00-8.50 108 ES 1xT+1xJ+1xV 6,10/25,25,50 for 30mm 109 ES 1xT+1xJ+1xV 6,10/25,25,50 for 30mm 100 ES 1xT+1xJ+1xV 1xV 6,10/25,25,50 for 30mm 100 ES 1xT+1xJ+1xV 1xV	ž 5	_ - 7 00	24	ם		1	お出ご		F	
7.30 106 ES 1xT+1xJ+1xV 6,10/25,25,50 For 30mm Subangular to subrounded, predominantly coarse, and flint. Sand is fine to coarse. With low cobble content of flint.	5	-		ا		▼			7.30	<u> </u>
Reddish brown sandy subangular to subrounded, predominantly coarse, 8.00-8.50 Reddish brown sandy subangular to subrounded, predominantly coarse, GRAVEL of mixed lithologies including sandstone, mudstone, siltstone and flint. Sand is fine to coarse. With low cobble content of flint. Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50)	υ >	7.30	106	ES	1xT+1xJ+1xV	-	li:用::I	Stiff reddish brown mottled grey gravelly sandy silty CLAY. Sand is fine.	F	××
Reddish brown sandy subangular to subrounded, predominantly coarse, 8.00-8.50 Reddish brown sandy subangular to subrounded, predominantly coarse, GRAVEL of mixed lithologies including sandstone, mudstone, siltstone and flint. Sand is fine to coarse. With low cobble content of flint. Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50)	Castlelord, wes	-		SPT	6.10/25.25.50				(0.70)	X
Reddish brown sandy subangular to subrounded, predominantly coarse, 8.00-8.50 Reddish brown sandy subangular to subrounded, predominantly coarse, GRAVEL of mixed lithologies including sandstone, mudstone, siltstone and flint. Sand is fine to coarse. With low cobble content of flint. Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50)		-			for 30mm		心性		<u> </u>	K. X.
Reddish brown sandy subangular to subrounded, predominantly coarse, 8.00-8.50 Reddish brown sandy subangular to subrounded, predominantly coarse, GRAVEL of mixed lithologies including sandstone, mudstone, siltstone and flint. Sand is fine to coarse. With low cobble content of flint. Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50) Reddish brown sandy subangular to subrounded, predominantly coarse, (0.50)	8			_					8.00	x
8.50-9.00 29 B Description on next sheet										0,0,000
8.50-9.00 29 B Description on next sheet	olleel,	- 0.00-0.00	20	ט				GRAVEL of mixed lithologies including sandstone, mudstone, siltstone	- '	[.a
8.50-9.00 29 B Description on next sheet		-					∤∷⊞∷¦	~	8.50	10 00 00 00 00 00 00 00 00 00 00 00 00 0
8.50 107 ES 1xT+1xJ+1xV	rouery						• , • , • , • ,	Description on next sheet	Ł	XOXO
0.00 101 20 1/1 1/1/1/1/1/1	ŝ				1yT+1y I+1v\/				ŀ	_
	offerings,	- 0.00	101		171 - 170 - 170	<u> </u>				

lue		Boring Pro	ogress and	Water	r Obs	ervations		Chise	lling / Slow l	Progress	Canaral Damarka
erord:	Date	Time	Borehole	Casir	ן פיי	Borehole Diameter	Water	From	То	Duration (hh:mm)	General Remarks
ası			Depth	Dept	th	(mm)	Depth			(1111.11111)	1. Position cleared using CAT and Genny.
۲	29/09/22	17:00	7.83	7.50	0	150	7.30	6.00	6.20	00:30	2. Hand dug inspection pit to 1.20m.
lice	30/09/22	08:00	7.83	7.50	0	150	5.10	8.00	8.50	01:00	Borehole drilled using 150mm tools and casing.
ils Lta, branch Un	30/09/22	13:00	10.84	9.00	-	150	4.40				 4. Not enough sample between 7.30 and 7.50 to ta geotechnical sample. 5. Groundwater strike at 10.30m. Rose to 7.10m in 20 minutes. 6. Borehole installed with 50mm standpipe on
20											All dimensions in metres Scale: 1:50
ctura	Method				Plant				Drilled	Robert	Logged RStan Checked
Stru	Used:	Cable p	ercussic	on ∣ [∪]	Jsed:	Da	ndo 250	0	By:	Foster	By: By:

The state of

STRUCTURAL SOILS

BOREHOLE LOG

Contract:				Client:		Borehole	e :		
EMG Pha	se 2				SEGRO			CI	P10
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

	Samp	oles a	nd In-sit	tu Tests	Water	Backfill & Instru- mentation	Description of Otroto	Depth	Material
	Depth	No	Туре	Results	Š	Back Inst	Description of Strata	(Thick ness)	Graphic Legend
6	9.00-9.29 9.00-9.29 9.00-9.50	32 33	SPT DSPT B	8,16/40,60 for 65mm			Stiff to very stiff reddish brown gravelly sandy silty CLAY. Sand is fine. Gravel is fine angular to subangular of mudstone. Occasional bands of grey siltstone. (MERCIA MUDSTONE GROUP) (stratum copied from 8.50m from previous sheet)	(2.34)	× · · ×
2/22 - 18:40 TC9	 - 10.00 - - - - 10.50-10.84	34	D SPT	13,12/20,30,50				- - - - - -	× · · ×
11/12	-	26		for 70mm				10.84	
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-55255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 	10.50-10.84	36	DSPT				Cable percussion borehole terminated at 10.84m depth.		

2		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	Conoral	Remarks	
5	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks	
100			Depth	Depth	(mm)	Depth			(1111.111111)	'		
Olls Elu, Dianon Omoc - Or										completion. 7. SPT hammers AR1862 AR2153-2022 (<i>E</i> _r = 60.	00%) used.	
פֿ										All dimensions in metres	Scale: 1:50	
Stracter	Method Used:	mopoution pit				Plant Used: Dando 250			Robert Foster	Logged RStan By:		AGS

BOREHOLE LOG

Contract:				Client:	Borehole	э:			
EMG Pha	se 2				SEGRO			CI	P11
Contract Ref:	Start: ;	30.09.22	Groun	d 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	ē	≈ 7 ë		Depth	Material
	Depth	No	Туре	Results	Water	Backfill & Instru-	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				TOROGE	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				- - - - - -	* * * * * * * * * * * * * * * * * * *
- -	1.75	7	D					_	× × ×
k@soils.co.ı	- 2.00-2.45 - - - -	8	UT	29 blows 40% recovery				-	* · · · · · · · · · · · · · · · · · · ·
mail: as	2.65	9	D					-	× × × ×
.soils.co.uk, E	3.00-3.45 3.00-3.45 3.00-3.45	10 11	SPT DSPT B	N=67				(5.90)	· o × · × · × · × · × · × · × · × · × ·
www:c	3.75	12	D					-	× × × × × × × × × × × × × × × × × × ×
7-552299, Wet	4.00-4.45 4.00-4.45 4.00-4.45	13 14	SPT DSPT B	N=94				- - - - -	*
0197	4.75	15	D						;°×, ×°
7-552255, 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 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)	x - x
shire	6.75	21	D				(MÉRCIA MUDSTONE GROUP)	- 1	× . ×
	- 7.00 - 7.29		SPT	16,9/41,44,15 for 10mm				- 7.29	xo xo
d, Wes	7.00-7.29	22	DSPT	for 10mm			Cable percussion borehole terminated at 7.29m depth.	- 1.20	
Potteries, Pottery Street, Castleford, West	-							- - - - - - - - - - - - - -	

- De		Boring Pr	ogress and	Water O	oservations		Chisel	ling / Slow	Progress	Conoral Da	omorko
erord	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General Re	emarks
ası			Depth	Depth	(mm)	Depth			(**************************************	1. Position cleared using CAT	T and Genny
ڔ	30/09/22	17:00	6.00	6.00	150	Dry	3.50	3.90	00:40	2. Hand dug inspection pit to	
<u>8</u>	03/10/22	08:00	6.00	6.00	150	-	6.50	7.00	00:30	Borehole drilled using 150r	
ils Ltd, Brancn UTI	03/10/22	11:00	7.29	7.00	150	-				No groundwater encounter Borehole installed with 50n completion. SPT hammer DS5-1-22 (E)	red during drilling. mm standpipe upon
Š										All dimensions in metres So	cale: 1:50
structura	Method Inspection pit + Used: Cable percussion				nt d: D a	ando 200	0	Drilled By:	Nathan Topping	33 Itotaii -	Checked AGS

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			CI	P12
Contract Ref:	Start:	30.09.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	30.09.22		89.36	E:446517.1 N:325155.1		1	of	2

	Samp	oles a	nd In-si	tu Tests	Water	Backfill	Description of Otroto	Depth	Material Graphic
	Depth	No	Туре	Results	W	Bac	Description of Strata	(Thick ness)	Legend
	0.00-0.50 0.10-0.10 0.30-0.30	1 101 2	B ES B				TOPSOIL Firm dark reddish brown mottled grey gravelly sandy silty CLAY. Sand is	0.40	× · × × × × × × × × × × × × × × × × × ×
2	0.50-1.00 0.50-0.50 0.70	3 102 4	B ES D				fine to coarse. Gravel is subangular to subrounded fine to coarse of mixed lithologies including sandstone, limestone and quartz.	- - -	
- 73	1.00-1.00 1.20-1.65 1.20-1.65 1.20-1.65	103 5 6	ES SPT DSPT B	N=13				- - - -	× - × - × - × - × - ×
- 1	1.75-1.75	7	D					- - -	×
200.00.00	2.00-2.45	8	UT					- - - -	- x x x - x
-111dil. dol	2.75-2.75	9	D					(4.50)	xx
3013.00.dr, 1	3.00-3.45 3.00-3.45 3.00-3.45	10 11	SPT DSPT B	N=8				- - - -	× · · ×
	3.75-3.75	12	D					- -	x _ x
005500, 110	4.00-4.45	13	UT					- - - -	x - x - x - x - x - x
	4.65-4.65	14	UT					4.90	× × ×
-002200, I dA	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)	^ · · · · · · · · · · · · · · · · · · ·
0.0	5.75	17	D					-	×. ×. ×. ×. ×. ×. ×. ×
EG, vv. 10	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	× × · × × × × × × × · × · × · × · × · ×
10101	7.00	20	D					- - - -	x - x - x - x
,	7.50-7.94		SPT	4,10/16,24,29,31 for 60mm				(3.16)	<u> </u>
	7.50-7.94 -7.50-8.00	21 22	DSPT B	.5. 50				-	
alles, r ouery	8.50	23	D					- - - - -	× × × × × × × × × × × × × × × × × × ×
; l									XI

	ı	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	Conoral	Remarks
Da	ate	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (blumm)	General	Remarks
		11110	Depth	Depth	(mm)	Depth		. •	(hh:mm)	Position cleared using (CAT and Conny
05/10	0/22	17:00	9.36	9.00	150	-	8.80	9.00	00:30	Hand dug inspection pit SPT hammer DS5-1-22	to 1.20m.
										All dimensions in metres	Scale: 1:50
Meth Used		Cable p	ercussic	Plan Use	1	ando 200	0	Drilled By:	Nathan Topping	Logged RStan By:	Checked By: AGS



BOREHOLE LOG

Contract:				Client:		Borehole	: :			
EMG Pha	se 2				SEGRO					P12
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	5.1		2	of	2

100011						20100 211111111020110011		<u> </u>
Sam	ples a	and In-si	tu Tests	Water	Backfill	Description of Strata	Depth (Thick	Material Graphic Legend
Depth	No	Туре	Results	Š		Description of Strata	ness)	Legend
9.00-9.36		SPT	10,11/26,37,37 for 60mm				9.36	- X-
9.00 9.00-9.36	104 24	ES DSPT				Cable percussion borehole terminated at 9.36m depth.	- 0.00	- <u>-</u> .
							- - -	
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2		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			(1111.111111)				
] ز													
3													
5													
5													
١													
										All disconsions in restres	01	4 =0	
3							<u> </u>			All dimensions in metres	Scale:	<u>1:50</u>	
į	Method			Plan	t			Drilled	Nathan	Logged RStan	Checked		
5	Used:	Jsed: Cable percussion			Used: Dando 200			15		By:	Ву:		AGS

BOREHOLE LOG

Contract:		Client:		Borehole	e:		
EMG Pha	se 2		SEGRO			C	P13
Contract Ref:	Start: 05.10.22	Ground Level (m AOI	D): National Grid Co-ordinate:	Sheet:			
765514	End: 05.10.22	77.14	E:446416.1 N:324961.0		1	of	2

Ţ	Samr	nles a	nd In-sit	tu Tests	<u>~</u>		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Depth	Material
-	Depth	No	Type	Results	Water	Backfill	Description of Strata	(Thick	Graphic
-				เงองแเจ			TOPSOIL	ness)	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			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	*
122 - 10.41	1.20	5	D	N. 40				- - -	, x, x , x, x
7	1.50-1.95 1.50-1.95	7	SPT B	N=10			Soft slightly sandy gravelly reddish brown CLAY. Sand is mudstone	1.70	^ · · ^ ×
a.co.uk.	1.80-2.00 1.80	8 103	B ES	1xT+1xJ+1xV			derived fine to medium. Gravel is subangular to rounded fine to coarse of sandstone, mudstone and siltstone.	2.30	
EIIIaii. ash@soiii	2.40 2.40 2.50-2.95 2.50-2.95	9 104 11	D ES SPT DSPT	1xT+1xJ+1xV N=9			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.	-	*. * * * * * * * * * * * * * * * * * *
solls.co.ur,	2.50-2.95 3.00 3.30	12 23 13	B W D					[(1.70) [× · × · × · × · × · × · × · × · × · × ·
, A	3.50-3.95 3.50-3.95 3.50-3.95	15 16	SPT DSPT B	N=12				4.00	*
OOZZBB, WED.	4.00-4.50	17	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.	-	00.00 00
22.00, 1 dA. 01977-	4.50-4.95 4.50-4.95	19	SPT(c) B	N=5			Subfounded (< 100mm). Said is line to coalse.	(1.60)	
							Stiff becoming very stiff reddish brown mottled grey slightly sandy	5.60	
. 161. 013	5.70 - 6.00-6.45	20	D SPT	N=31			gravelly CLAY. Sand is mudstone derived fine to coarse. Gravel is subrounded to rounded of siltstone, sandstone and mudstone.	(0.60) 6.20	
מ' אגרוס וואר	6.00-6.45 6.00-6.20 6.20-6.45	22 24 25	DSPT B B				Occasional bluish grey silt beds up to 5cm thick. 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	-	
or rollwalling,	- - -						is fine to coarse. Cobbles are subrounded of siltstone, quartzite and sandstone up to 10cm in size.	(1.40)	00°0
d, vves	7.30	26	D CDT(a)	6.0/44.00.40		[///		7.60	
r, casileidiu,	7.50-7.86	28	SPT(c) B	6,9/11,20,19 for 60mm			Extremely weak light reddish brown mottled grey MUDSTONE. (MERCIA MUDSTONE GROUP)	-	
ery orreer,	8.30	29	D					(1.64)	
, 70	8.50-8.72		SPT	25/42,58 for 70mm				<u>-</u>	
e Foueries, Fouery	8.50-8.72	31	DSPT						
יי ר									1

		Boring Pro	ogress and	Water Ob	servations		Chise	lling / Slow F	Progress	Conoral	Domorko								
	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								
١ ١	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				200	3.10	8.50	9.00	01:00	3. SPT hammer AR3104-									
<u> </u>	06/10/22	16:00	9.24	8.50	200	-					(
i																			
										A II I' ' ' ' '	0 1 1								
;										All dimensions in metres	Scale: 1:50								
:	Method	mopostion pit			Plant			Drilled		Logged RStan	Checked								
; [Used:		ercussio		d: Da	ando 300	000 By: Jonny Hutt			tt By:	By: AGS								

Contract:				Client:	Client:				
EMG Pha	se 2						CI	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

	Samp	oles a	nd In-si	tu Tests	Water	Backfill	D	Depth	Material
	Depth	No	Туре	Results	×	Вас	Description of Strata	Depth (Thick ness)	Material Graphic Legend
	- 8.50-9.00 - 9.00-9.24	32	B SPT	20 5/34 56 10		///		9.24	
	- 9.00-9.24	34	DSPT	20,5/34,56,10 for 10mm			Cable percussion borehole terminated at 9.24m depth.	-	
_	- 9.00-9.24	54	DOFT					-	
<u>-</u>	-							[-	
5	-								
77	-							-	
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5	-							-	
9	-								
5	-							-	
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5	- -							-	
2	-							ļ.	

	Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	Conoral	Domorle	····	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	eter Water From		То	Duration (hh:mm)	General	Remark		
,												
									All dimensions in metres	1	1:50	
Method Used:	inopootion pit			Plant Used: Dando 300			Drilled By: J	onny Hut	Logged RStan By:	Checked By:		AGS

BOREHOLE LOG

Contract:			Client:		Borehole	: :		
EMG Pha	se 2			SEGRO			CI	P14
Contract Ref:	Start: 04.10.22	Groun	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 Strata	Depth (Thick	Material Graphic
	Depth	No	Type	Results	>	Вас	Description of Strata	ness)	Legend
	- 0.00-0.50 - 0.10 - 0.30-0.50	1 101 2	B ES D				TOPSOIL Stiff dark reddish brown grovelly condy SILT. Sand is fine to coorse.	0.40	\(\frac{1}{2}\frac{1}{
_ 	- 0.50-1.00 - 0.50 - 0.70	4 102 3	B ES D				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.	0.50)	× × × × × × × × × × × × × × × × × × ×
Z/ZZ - 18:41 1C9	- 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.	- - - - - -	^ · · · · · · · · · · · · · · · · · · ·
K. 11/12/	1.65	6	UT					- - -	× × × × × × × × × × × × × × × × × × ×
ask@soils.co.uk.	- 2.00-2.45 - 2.00-2.45 - 2.00-2.45	7 8	SPT DSPT B	N=16				(2.90)	× × × × × × × × × × × × × × × × × × ×
Email: as	- _ 2.75 _	9	D					-	×°××× ×°×××
solls.co.uk, E	3.00-3.45 3.00-3.45 3.00-3.45	10 11	SPT DSPT B	N=17				- - - -	×°. × ×°. ×° × ×°. ×°
55ZZ99, Web: www.s	3.75 -3.80 3.80	12 104 105	D ES ES				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	**************************************
977-552299,	4.00-4.45 - 4.00-4.45 -	14	SPT B	N=26			Medium dense orangish brown very sandy silty angular to subangular fine to coarse GRAVEL of predominantly flint. With low cobble content. Sand is fine.	4.40	*
255, Fax: U	- - 5.00-5.45 - 5.00-5.45	16	SPT(c) B	N=42			Very stiff reddish brown sandy gravelly silty CLAY. Sand is fine to	5.30	\$
31: 01977-552	- - - - -						coarse. Gravel is angular to subangular fine to coarse, occasional cobbles, of mudstone. (MERCIA MUDSTONE GROUP)	(4.00)	× · · ×
TO TIND. 16	6.00-6.45 6.00-6.45 - - 6.40-6.45	17 18	SPT B B	N=55				(1.60)	- ×
Yorksnire, WF	- 0.40-0.43 - - -	10	В				Very stiff reddish brown gravelly sandy silty CLAY. Gravel is angular to	6.90	× × × × × × × × × × × × × × × × × × ×
⊭ l	- 7.00 - - -	19	D				subangular fine of mudstone. Occasional pocket of grey siltstone. (MERCIA MUDSTONE GROUP)	-	× × · · · ·
Castletord, wes	7.50-7.95 7.50-7.95	20	SPT DSPT	6,11/13,20,32,35 for 70mm				(1.50)	××
Street,	-7.50-7.95 8.00-8.40	21	B SPT	10,14/18,28,41,13 for 20mm				8.40	<u>~~~~</u>
s, Pottery	8.00-8.40 - -	22	DSPT				Cable percussion borehole terminated at 8.40m depth.	-	
Potteries,	-							-	

The		Boring Pr	ogress and	Water Ob	servations		Chise	lling / Slo	w Progress	Canaral	Damarka	
Castleford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks	
astl	2 4.10		Depth	Depth	(mm)	Depth			(1111.11111)	1 Desition classed using (CAT and Conny	
Ltd, Branch Office -	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.
Sol										All dimensions in metres	Scale: 1:50	
Structural Soils	Method Used:	Cable p	ercussic	Plan Use		ando 200	0	Drilled By:	Jonny Hut	Logged RStan By:	Checked By: A(15

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	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

	Samp	oles a	ınd In-si	tu Tests	Water	Backfill	Description of Charts	Depth	Material Graphic
	Depth	No	Туре	Results	×	Bac	Description of Strata	(Thick ness)	Legend
41 TC9	- 0.00-0.50 - 0.10 - 0.30 - 0.50-1.00 - 0.50 - 0.70 - 1.00	1 101 2 3 102 4 103	B ES D B ES D				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 - 18:	1.20-1.65 1.30 1.65	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.	1.30	× × × × × × × × × × × × × × × × × × ×
il: ask@soils.co.uk.		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.	2.30	X
ww.soils.co.uk, Ema	3.00-3.45 3.00-3.45 3.00-3.45	10 11	SPT DSPT B	N=12			(MÉRCIA MUDSTONE GROUP)	- - - - - -	× · · × · · × · · × · · × · · × · · × · · ×
977-552299, Web: w	3.75 - 4.00-4.45 - 4.00-4.45 - 4.00-4.45	12 13 14	D SPT DSPT B	N=75				- - - - - - -	× - × - × - × - × - × - × - × - × - × -
77-552255, Fax: 01	- 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)	x - x
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 - 18:41 TC9	5.75 - 6.00-6.45 - 6.00-6.45 - 6.00-6.45	18 19 20	D SPT DSPT B	N=38				- - - - - - - - -	× · · · · · · · · · · · · · · · · · · ·
West Yorksh	- - 7.00 -	21	D					- - - - -	x · · · x
Street, Častleford, 1	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				8.26	× · · × · · × · · × · · × · · × · · ×
tteries, Pottery S	8.00 8.00-8.26	106 24	ES DSPT	for 20mm			Cable percussion borehole terminated at 8.26m depth.	- - - -	

lhe		Boring Pro	ogress and	Water Ol	servations		Chisell	ing / Slow	Progress	Conoral	Domorko
letord:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
3SI			Depth	Depth	(mm)	Depth			(1. Position cleared using (CAT and Conny
oils Ltd, Branch Office - C	03/10/22					Dry	7.50	8.00	00:30	Hostion cleared using 4 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
ň										All dimensions in metres	Scale: 1:50
tructura	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 |

M S

STRUCTURAL SOILS

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			C	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 Charts	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 :- xo x
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
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				- - - - -	× · · · ×
_	- 5.50 - - 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)	× · · ×
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> × · · ·

l ne		Boring Pro	ogress and	Water Ob	servations		Chisell	ing / Slow F	Progress	Conoral	Domarko
etord:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
ast			Depth	Depth	(mm)	Depth			(1111.11111)	1. Position cleared using (CAT and Conny
: :	04/10/22	17:00	3.10	2.50	150	Dry	10.50	11.00	01:00	2. Hand dug inspection pit	
<u> 1</u>	05/10/22	08:00	3.10	2.50	150	Dry				3. Borehole drilled using 1	
2	05/10/22	17:15	11.15	10.50	150	-				4. 15 litres of water added	between 1.20m and
anc	06/10/22	08:00	11.15	10.50	150	9.25				2.50m to aid drilling.	
n E	06/10/22	11:15	11.15	10.50	150	-				5. No groundwater encour	
Ę										6. SPT hammer AR1862-	$2022 (E_r = \%) used.$
<u>s</u>											
ž										All dimensions in metres	Scale: 1:50
ăur.	Method	Inspec	tion pit -	⊦ Plan	t			Drilled	Robert	Logged RStan	Checked
Struc	Used: Cable percussion Used: Dando 2						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	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>	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	General	Domor	l.o	
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remai	KS	
L			Depth	Depth	(mm)	Depth			()				
:													
										All dimensions in metres	Scale:	1:50	
П	Method	Inspec	tion pit -	+ Plan	t			Drilled	Robert	Logged RStan	Checked		
U	Jsed:		ercussic		d: Da	ando 250	0	Ву:	Foster	Ву:	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 - 18:41 | 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	tu Tests	Water	Backfill &	tation	Description of Strata	Depth (Thick	Material Graphic
	Depth	No	Туре	Results	Š	Back	ment	·	ness)	Legend
<u> </u>	0.00 0.00-0.00 0.10 0.10-0.20 0.20 0.60 0.60-0.80 1.20		О В О В В В В В В В В В В В В В В В В В	1xT+1xJ+1xV 1xT+1xJ+1xV 100 blows 100% recovery				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	
in, Liliali. ash@solls.co.un.	2.30 2.50-2.95 2.50-2.95 2.50-2.95	8 10 11	D D SPT DSPT B	N=25				Below 2.50m: becoming stiff.	(5.10)	
. web. www.solls.co.c	3.30 3.50-3.95 3.50-3.95 3.95-4.05	12 13 14 14	D UT _(UT100) D D	100 blows 89% recovery					-	
J, I dA. 01911-0022	4.30 4.50-4.95 4.50-4.95 4.50-4.95	15 17 18	D SPT DSPT B	N=35					-	
el. 01977-00220	5.50 5.70	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 - - - -	%. × × × × × × × × × × × × × × × × × × ×
St TUIKSIIIIE, WYF IU 1140. I	6.00-6.45 6.00-6.45 6.00-6.45	21 22	SPT DSPT B	N=25					- - - - - - - - - -	
פו, כמשוופוטוע, יייני	7.30 7.50-7.95 7.95-8.05	23 24 25	D UT _(UT100) D	80 blows 89% recovery				Below 7.30m: slightly sandy slightly gravelly. Gravels decreasing in size.	(5.30)	
rouelles, rouely silet	8.70	26	D						- - - - - - -	× 2.0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 ×

- De		Boring Pro	ogress and	Water Ol	servations		Chisell	ing / Slow F	rogress	Caparal	Domorko
erord	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General F	Remarks
ast			Depth	Depth	(mm)	Depth			(1111.111111)	1 Position algored using C	AT and Conny
Is Ltd, brancn Unice - പ	04/10/22 05/10/22 05/10/22	/22 08:15 16.00 16.00 200				12.10 10.40 -	16.60	17.00	01:00	 Position cleared using C. Hand dug inspection pit 1 Borehole drilled using 15 Water added between 15 drilling. No groundwater encount Borehole installed with 5 completion. 	to 1.20m. 50mm tools and casing. 5.00m and 16.00m to aid tered during drilling.
S S										All dimensions in metres	Scale: 1:50
structura	Method Used:		tion pit -			ando 300		Drilled By: J o	nny Hut	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	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	servations	i	Chise	lling / Slo	w Progr	ess	Conoral	Domorl	' 0	
	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То		ration :mm)	General	Remair	15	
}			Depth	Depth	(mm)	Depth			(1111	, i	7. SPT hammer AR3104-	2022 (<i>E</i> _r = 64	4.00%)	used.
;														
,														
												Т		
										1	All dimensions in metres	Scale:	1:50	
	Method		tion pit -					Drilled			Logged RStan	Checked		
	Used:	Cable p	ercussic	on Use	a: D a	ando 300	0	Ву:	Jonny	y Hutt	Ву:	Ву:		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	e :		
	EMG Pha	se 2				SEGRO			CI	P18
Ì	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

	Sam	ples a	and In-si	tu Tests	Water	Backfill	Description of Otroto	Depth	Material Graphic
	Depth	No	Туре	Results	W	Bac	Description of Strata	(Thick ness)	Legend
16	- 0.10-0.30 - 0.10 - 0.40-0.70 - 0.50 - 0.50	1 101 2 3 102	B ES B D ES	1xT+1xJ+1xV 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 pockets of grey siltstone.	0.35	
- 18:42 TC9	-0.90 - 1.20 -1.00 -1.00	4 5 103	B D ES	1xT+1xJ+1xV			(MERCIA MUDSTONE GROUP)	- - - -	x - x - x - x
ls.co.uk. 11/12/22	- 1.50-1.95 - 1.50-1.95 - 1.50-1.95 	7 8	SPT DSPT B	N=24				- - - - - -	x x x x x x x x x x x x x x x x x x x
nail: ask@so	- - 2.50-2.95 -	9	UT _(UT100)	125 blows 100% recovery				(4.50)	× · · × · · · × · · ∘ × · · · × × · · · ×
ils.co.uk, En	- 3.00 	10	D					-	X - - X - - X - - X - -
299, Web: www.so	- 3.50-3.91 - 3.50-3.91 - 3.50-3.91	12 13	DSPT B	6,10/16,25,36,23 for 35mm				- - - - -	~
01977-5522	4.50-4.85 - 4.50	104	SPT	15,10/17,27,56 for 70mm 1xT+1xJ+1xV				4.85	× · · × · · · ·
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	-4.50 -4.50-4.85	15	DSPT	IXI+IXJ+IXV			Cable percussion borehole terminated at 4.85m depth.		

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow F	Progress	Conoral	Remarks
	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remarks
ilis Liu, Dialibii Oilibe - Dae	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. No groundwater encountered of Borehole backfilled with bento	0m. / tools and casing. ten 1.20m and 4.50m to aid during drilling. nite upon completion.
5										All dimensions in metres	Scale: 1:50
Oliucius	Method Used:		tion pit + ercussic			ando 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	P19
Contract Ref:	Start:	30.09	9.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	30.09	9.22	76.75	E:445967.7 N:324839.4		1	of	1
Samples and In-situ Tests		-	=				Denth	Ma	terial

	Sam	ples a	nd In-si	tu Tests	ter	•		Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
1631	- 0.10-0.30 - 0.10 - 0.40-0.70 - 0.50 - 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.	0.30	
.co.uk. 11/12/22 - 18:42 ⁻	-0.90-1.20 -1.00 -1.00 -1.50-1.95 -1.50-1.98	4 5 103 7 8	B D ES SPT DSPT B	1xT+1xJ+1xV N=25			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)		
ık, Email: ask@soils	2.50-2.95 - 3.00	9	UT _(UT100) D	100 blows 100% recovery				(3.97)	
19, Web: www.soils.co.u	3.50-3.93 - 3.50-3.93 - 3.50-3.93	12 13	SPT DSPT B	7,12/17,23,28,32 for 55mm				- - - - - - - -	
Fax: 01977-55229	- 4.50-4.87 - 4.50 - 4.50 - 4.50-4.87	104 15	SPT ES DSPT	8,10/20,30,50 for 70mm 1xT+1xJ+1xV			Cable percussion borehole terminated at 4.87m depth.	- 4.87 -	<u> </u>
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 - 18:42 TC9									

ш.											
The		Boring Pr	ogress and	Water O	oservations	1	Chise	lling / Slow l	Progress	Canaral	Damarka
eford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Remarks
astle	Date	Tille	Depth	Depth	(mm)	Depth	110111	10	(hh:mm)	4 Desition alcohol voice (DAT and Carrey
: Ltd, Branch Office - Ca	03/10/22	16:30	4.87	3.00	150	Dry	3.50	4.50	01:00	1. Position cleared using 0 2. Hand dug inspection pii 3. Borehole drilled using 1 4. 20 litres of water betwe aid drilling. 5. 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.
Soils										All dimensions in metres	Scale: 1:50
Structura	Method Used:		tion pit - ercussio			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:		Boreho	ole:		
EMG Pha	se 2				SEGRO			CF	P20
Contract Ref:	Start:	30.0	9.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	03.1	0.22	75.98	E:445775.9 N:324732.4		1	of	1_
Samples and In city Toots			_				Donth	Ma	torio

TOPSOIL O.10-0.30		Sam	ples a	and In-si	tu Tests	Water	Backfill	Decembration of Chroto	Depth	Material Graphic
10.10-0.30 1 B Co.10-0.30 1 Co.10		Depth	No	Туре	Results	M	Bac	Description of Strata	(Thick ness)	Legend
Composition Composition	_	0.10 - 0.40-0.70 - 0.50	101 2 3	ES B D				Stiff dark orangish brown slightly gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is angular to subangular fine of mixed lithologies	-	
1.50-1.95 7 DSPT 1.50-1.95 7 DSPT 1.50-1.95 7 DSPT 1.50-1.95 7 DSPT 1.50-1.95 7 DSPT 1.50-1.95 8 B B	. 18:42 TC9	-0.90-1.20 1.00	4 5	B D				Stiff to very stiff reddish brown gravelly sandy silty CLAY. Sand is fine. Gravel is angular to subangular fie to coarse of mudstone, occasional	-	x - x
2.50-2.95 9 UT _(UT100) 67% recovery 3.00 10 D 3.50-3.91 12 DSPT 5.12/20.25,35.20 for 75mm 4.50-4.79 15 DSPT 10.15/40,60 for 75mm Cable percussion borehole terminated at 4.79m depth.	.co.uk. 11/12/22 -	1.50-1.95		DSPT	N=26			(MERCIA MUDSTONE GROUP)	- - - - - - - -	× · · × · · × · · · × · · · × · · · × · · · · ×
3.50-3.91	nail: ask@soils	- - - - - - - - - - - - - - - - - - -	9	UT _(UT100)	100 blows 67% recovery				(3.99)	×
3.50-3.91 12 DSPT 13 DSPT 15 DSPT 15 DSPT 15 DSPT 15 DSPT 15 DSPT 15 DSPT 15 DSPT 15 DSPT 15 DSPT 15 DSPT 15 DSPT 15 DSPT 15 DSPT 16 DSPT 16 DSPT 16 DSPT 17 D	ls.co.uk, En	- 3.00 	10	D					- - - -	× × ×
80	o: www.soi	- - 3.50-3.91		DSPT	5,12/20,25,35,20 for 35mm				- - -	× · · ×
Cable percussion borehole terminated at 4.79m depth.	977-552299, Wet	- - -	13						- - - - - 4.79	
رة السام السام السام السام السام السام السام السام السام السام السام السام السام السام السام السام السام السام	s, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-	-	15					Cable percussion borehole terminated at 4.79m depth.	4.79	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	General Remarks
2	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General Remarks
áL			Depth	Depth	(mm)	Depth			(1111.11111)	Position cleared using CAT and Genny.
	03/10/22	13:00	4.79	3.00	150	Dry	3.50	4.50	01:00	 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 (E_r = %) used.
2										All dimensions in metres Scale: 1:50
)	Method Inspection pit + Used: Cable percussion Plant Used: Dando						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:		Borehole	e:		
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	• • •							- - - -	

lhe		Boring Pr	ogress and	Water C	bservations		Chisell	ing / Slow F	Progress	Conoral	Domorko
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
ils Ltd, Branch Office - C	03/10/22 03/10/22 04/10/22 04/10/22	18:00 08:00	0.50 5.38 5.38 5.38	3.00 5.00 5.00 5.00	150 150 150 150	Dry Dry Dry Dry	4.70	5.00		 Hand dug inspection pit Borehole drilled using 1 No groundwater encour Borehole installed with completion. SPT hammer JB05-202 	t to 1.20m. 50mm tools and casing. ntered during drilling. 50mm standpipe upon
So										All dimensions in metres	Scale: 1:50
tructur	Method Inspection pit + Used: Cable percussion					ando 250		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 | 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:		Bore	ehole:	:		
EMG Pha	se 2					SEGRO				CF	P22
Contract Ref:	Start:	04.1	10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Shee	et:			
765514	End:	04.1	10.22						1	of	1_
Camples and In city Tests								T) a matha	NAG	torio

	Samp	oles a	ınd In-si	tu Tests	Water	Backfill	Description of Charts	Depth	Material Graphic
	Depth	No	Туре	Results	Ň	Вас	Description of Strata	(Thick ness)	Legend
	- - 0.10	101	ES				TOPSOIL.	(0.50) 0.50	1/2 · 3/1/2 · 3/1/2 · 3
22 - 18:42 TC9	- 0.50 - 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				- - - - -	
soils.co.uk, Email: as	- - - 3.00-3.45 - -	12	U	150 blows				(4.80)	
1977-552299, 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: 01	- - 5.00-5.30 - - 5.00 5.30	47	SPT	10,15/42,58 for 75mm				5.30	
odteries, 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 - 18:42 TC9	5.00-5.30	17	DSPT				Cable percussion borehole terminated at 5.30m depth.		

											·		
-		Boring Pr	ogress and	Water O	bservatio	ns		Chisell	ing / Slow F	rogress	Caparal	Domorko	
5	Date	Time	Borehole	Casing	Borehol Diamete		/ater	From	То	Duration	General	Remarks	
	Date	Tille	Depth	Depth	(mm)		epth	1 10111	10	(hh:mm)	Position cleared using 0	CAT and Conny	
5	04/10/22	18:00	5.30	3.00	150		Dry	4.50	5.00	00:30	2. Hand dug inspection pit		
											3. Borehole drilled using 1	50mm tools and casir	ng.
5											 No groundwater encour SPT hammer JB05-202 		d
ז ב											o. or i namine oboo zoz	12 (L _r 00.0070) 430	u.
ĺ													
2										-	A II		
ō								L		1	All dimensions in metres	Scale: 1:50	
į	Method			Pla					Drilled		Logged RStan	Checked	ш
2	Used:	Cable r	percussio	on Use	ed:	Dand	o 200	0	By: W	ill Nevins	By:	By:	AUS

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			CI	P23
Contract Ref:	Start:	22.09.22	Groun	nd 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	nd In-si	itu Tests	Water	Backfill	Description of Strate	Depth (Thick	Material Graphic
	Depth	No	Туре	Results	Š	Вас	Description of Strata	ness)	Legend
	0.10	1	ES				TOPSOIL.	(0.60)	11/2 - 27-12 - 27-12 27-12 - 27-12 - 27-12
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	0.50 0.50 0.60 - 1.00 1.00 1.20-1.65	2 3 4 5 6 7	B D ES B D UT				Very stiff reddish brown slightly sandy CLAY with occasional lithorelics of mudstone. (MERCIA MUDSTONE GROUP)	- 0.60	
s.co.uk. 11/12	- 1.70 - 2.00-2.45 - 2.00-2.50	8	D SPT B	N=22			2.00m: With occasional gravel size pocket/lense (<15mm) of greenish grey sandy silt.	- - - - -	
κ, Email: ask@soilε	2.00-2.45 - 2.80 - 3.00-3.45	11 12	DSPT D UT	140 blows			greenst grey sandy sit.	(4.00)	
b: www.soils.co.uk	3.50	13	D					- - - - - -	
7-552299, We	4.00-4.43	14 15	SPT DSPT B	10,15/16,17,29,38 for 50mm	i		Very stiff reddish brown slightly sandy CLAY with frequent lithorelics of	4.60	
255, Fax: 0197	- 4.80-5.00 - 4.80 - 5.00-5.41	16 17	B D SPT	15,10/22,21,25,32 for 45mm	₩		mudstone and light grey siltstone. Locally grading to extremely weak mudstone. (MERCIA MUDSTONE GROUP)	[(0.81) - 5.41	
: 01977-5522	5.00-5.41	18	DSPT			, , , ,	Cable percussion borehole terminated at 5.41m depth.	-	
F10 1NJ. Tel	- - - -							 - - -	
	- - - -							- - - - -	
stleford, West	- - - - -							- - - - -	
Potteries, Pottery Street, Castleford, West	- - - - -							- - - -	
otteries, Pott	- - -							- - - -	

		Boring Pro	ogress and	Water Ob	servations		Chisel	ling / Slow	Progress	Conoral	Domarko
allelold.	Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	То	Duration (hh:mm)	General	Remarks
IIS Etd, Dianon Oilloc - Cac	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 bentc SPT hammer JB05-2022 (<i>E</i> , =	iom. Idiameter tools and casing. Did not rise after 20 minutes. Onite upon completion.
00										All dimensions in metres	Scale: 1:50
סוומסומיי	Method Used:		tion pit - ercussio		1	ndo 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) :		
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

	Sam	ples a	nd In-si	tu Tests	Water	Backfill	Description of Otroto	Depth	Material Graphic
	Depth	No	Туре	Results	M	Вас	Description of Strata	(Thick ness)	Legend
	0.10	1	ES				TOPSOIL (TOPSOIL)	0.30	11. 11. 11. 11. 11. 11. 11. 11. 11. 11.
22 - 18:42 TC9	- 0.50 - 0.50 - 0.50 - 0.60 - 1.00 - 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)	0.70	
k. 11/12/2	- - - 1.70	8	D					2.00	- · - · - · - · - · - · - · · - · · · ·
: ask@soils.co.uk. 11/12/22	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)	
Email	- - 2.80 - 3.00 3.45	12	D UT	150 blove				- 3.10	<u>• • • • • • • • • • • • • • • • • • • </u>
orkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email:	3.00-3.45 - 3.50 3.50-4.00 - 4.00-4.41 - 4.00-4.50 - 4.80	13 14 15 16 17	D B SPT DSPT B	150 blows 5,10/17,25,34,24 for 30mm			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)	(2.30)	
255, Fa	5.00-5.40	10	SPT	7,8/16,33,34,17 for 20mm				5.40	
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552:	- 5.00-5.40	19	DSPT				Cable percussion borehole terminated at 5.40m depth.		

두		Boring Pro	ogress and	Water O	bservations	•	Chisel	ling / Slow	/ Progress	Caparal	Domarko
eford:	Date	Time	Borehole	- 5	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
Castlefo	1		Depth	Depth	(mm)	Depth			(1111.111111)	1 Position algored using (CAT and Conny
Soils Ltd, Branch Office - C	26/09/22	16:00	5.40	4.50	150	Dry				Position cleared using 0 Hand dug inspection pit Borehole drilled using 1 No groundwater encour Borehole backfilled with completion. SPT hammer JB05-202	to 1.20m 50mm tools and casing. hered. bentonite upon 22 (<i>E</i> _r = 68.00%) used.
<u>a</u>										All dimensions in metres	Scale: 1:50
nctur	Method	•	tion pit -	111				Drilled	Mathew	Logged RStan	Checked By: AGS
댨	Used:	Cable p	ercussio	on ∣ ^{∪se}	^{.u.} Da	ando 200	10	Ву:	Heath	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 - 18:42 | TC9 |

BOREHOLE LOG

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

	Sam	ples a	nd In-si	itu Tests	Water	Backfill	Description 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	

<u>Pe</u>		Boring Pr	ogress and	Water O	oservations		Chise	lling / Slov	v Progress	Conoral	Domorko
etord:	Date	Time	Borehole		Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
ast			Depth	Depth	(mm)	Depth			(1111.111111)	1 Desition algored using (CAT and Canny
Is Ltd, Branch Office - Ca	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 0 Hand dug inspection pit 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
S										All dimensions in metres	Scale: 1:50
Structura	Method Used:		tion pit -			ando 200	00	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	P26
Contract Ref:	Start:	16.09.22	Groun	nd 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.	- - - - - - - - - - - - - - - - - - -	

The		Boring Pr	ogress and	Water C	bservations		Chisell	ing / Slow F	rogress	Canaral	Domarka
Castleford:	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
Ltd, Branch Office -	16/09/22 21/09/22 21/09/22	08:00	5.00 5.00 6.76	3.00 3.00 6.00	150 150 150	Dry 4.60 Dry	4.50	5.00	00:30	 Position cleared using 0 Hand dug inspection pit Borehole drilled using 1 Groundwater strike at 4 Borehole backfilled with completion. SPT hammer JB05-202 	to 1.20m. 50mm tools and casing. .60m. bentonite upon
ural Soils										All dimensions in metres	Scale: 1:50
cture	Method	Inspec	tion pit +	• Pla			I	Drilled	•	Logged RStan	Checked
Str.	Used:	Cable p	ercussio	n Us	ed: Da	ando 200	0	By: W	ill Nevins	By:	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 - 18/42 | TC9 |

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			2000	X0880	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 Ob	servations		Chisel	ling / Slow F	Progress	Conoral	Domorko	
ford:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration	General	Remarks	
Castlefor	Date	TITLE	Depth	Depth	(mm)	Depth	1 10111	10	(hh:mm)	Position cleared using 0	AT and Conn	,
Soils Ltd, Branch Office -	15/09/22	18:00	4.95	3.00	150	Dry	4.40	4.60	00:30	Hostitor cleared using C 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 an itered during dr 50mm standpip	d casing. illing. e on) used.
Structural	Method Used:		tion pit -			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 |

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STRUCTURAL SOILS

BOREHOLE LOG

Contract:				Client:		Borehole	e:		
EMG Pha	se 2				SEGRO			C	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

Ï	0	.1		T 4 -	_	∞ ⊑	<u> </u>	D "	Matarial
	Samp	oles a	ına ın-sı	itu Tests	Water	kfill fatio	Description of Strata	Depth (Thick	Material Graphic
	Depth	No	Type	Results	≥	Backfill & Instru- mentation	Description of Strata	ness)	Legend
	- 0.00-0.50	3	В				TOPSOIL	(0.50)	7/1/N. 7/1/V. 7
	<u>.</u> -					2000 2000 2000 2000 2000 2000 2000 200		0.50	17. 7.17
	- - 0.50	1	ES				Stiff reddish brown slightly sandy silty CLAY. Sand is fine to coarse.		×
<u></u>	0.50 0.50-1.00	2 6	D B				(MERCIA MUDSTOŇE ĠROUĆ)	(0.50)	
18:43 IC9	- 1.00	4	ES			°.°H.°.	Stiff reddish brown slightly gravelly slightly sandy silty CLAY. Sand is	1.00	
18:4	1.00	5	D				fine to coarse. Gravel is subangular and subrounded fine to coarse of		
- 77	1.20-1.65 1.20-1.65	7	SPT DSPT	N=11			flint and mudstone. Occasional pockets (<10mmx5mm) of greenish grey	-	
71/1	1.20-1.70	8	В				siltstone. (MERCIA MUDSTONE GROUP)	(1.50)	
- -	- 1.80	9	D						
8	- 2.00-2.45	10U	T-NR _{(UT1}	0% recovery				-	·
SIIOS	- -			0 70 recovery				2.50	<u> </u>
ask@solls.co.uk. 11/12/	- 2.50-2.95 - 2.50-2.95		SPT	N=13			Stiff to very stiff reddish brown slightly sandy silty CLAY. Sand is fine to		X. X.X
	2.50-2.95 2.50-2.90	11 12	DSPT B				coarse. Occasional pockets of greenish grey siltstone. (MERCIA MUDSTONE GROUP)	-	<u>x x</u>
, E	-2.90	13	D	450 61			(MENON (MODE FOR LE STOCK)	-	
n.oo.	- 3.10 - 3.45 -	14	UT _(UT100)	150 blows 129% recovery				-	
solls	<u>.</u> -								<u> </u>
× ×	- 3.60 - 3.60-4.00	15 16	D B					(2.50)	<u>x••</u> x
Web: www.soils.co.uk, Email:	- 4.00-4.42		SPT	6,12/13,17,33,35				-	<u> </u>
99,	-			for 40mm					
7790	4.00-4.42	17	DSPT					-	× × ×
-//6	4.60-5.00		SPT	13,12/20,20,30,30					<u>xx</u>
Fax: U	_ _4.60-5.00	18	DSPT	for 20mm		******		5.00	^x
	-						Cable percussion borehole terminated at 5.00m depth.	-	
-552255,	· -							_	
<u> </u>	- -							-	
lel: 0197	-							-	
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Street, Castleford, Wes	· - -								
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otteries, Pottery	-							_	
5									

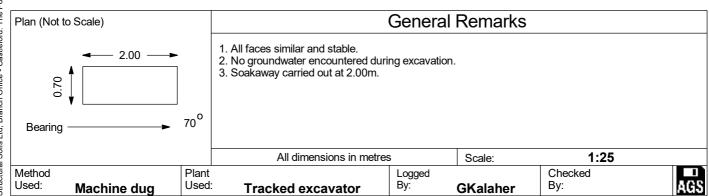
lhe		Boring Pro	ogress and	Water Ob	servations		Chiselli	ng / Slow F	rogress	Conoral	Domorko
erord:	Date	Time	Borehole	Casing	Borehole Diameter	Water	From	То	Duration (hh:mm)	General	Remarks
ast			Depth	Depth	(mm)	Depth			(1111.11111)	1 Desition cleared using (CAT and Conny
lls Ltd, Brancn Uπice - പ	14/09/22 15/09/22 15/09/22	18:00 08:00 11:00	3.60 3.60 5.00	3.00 3.00 3.00	150 150 150	Dry Dry Dry	4.40	4.60	00:30	 Position cleared using 0 Hand dug inspection pii Borehole drilled using 1 No groundwater encour Borehole installed with completion. SPT hammer JB05-202 	to 1.20m. 50mm tools and casing. ntered during drilling. 150mm standpipe upon
80										All dimensions in metres	Scale: 1:50
tructura	Method Used:		tion pit -		Plant Used: Dando 20			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 | 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				SEGRO			TI	P01
Contract Ref:	Start:	27.09.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	27.09.22					1	of	2

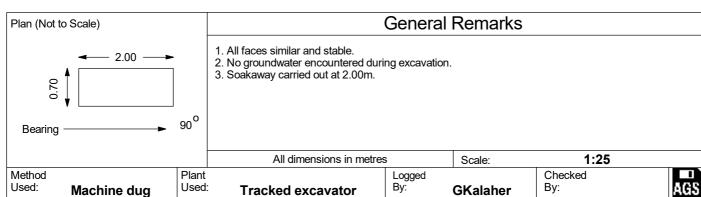
	0.10 1 ES				Water	Backfill	Description of Strata	Depth (Thick	Material Graphic
	0.10 1 ES 0.10 2 D				W	Bac	•	ness)	Legend
160	0.10 - 0.30 - 0.30	2 3 4					TOPSOIL Very stiff dark orangish reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of quartzite.	0.20	
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk, 11/12/22 - 1849 TC9	- 0.30	4 5 6 7 8	LB ES D LB V	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.		





Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			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

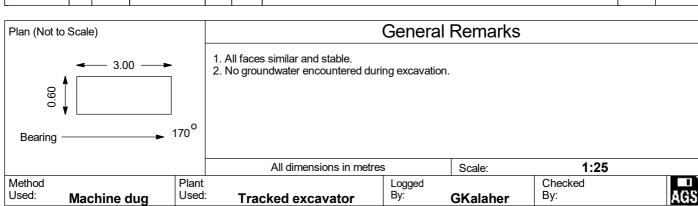
Sampl	les a	nd In-sit	tu Tests	Water	Backfill		Description	of Ctroto		Depth	Materia Graphic
Depth	No	Туре	Results	Ma	Bac		Description	or Strata		(Thick ness)	Legend
0.15 0.40 0.40 0.40 0.70 0.70 0.70 0.70 0.70	12 345 678	ESD ESDB ESDB>	c _u =>140			Very stiff dark orangish SILT. Sand is fine to coarse of quartzite and fl Very stiff dark reddish lithorelics (20x20mm) of (<30mm) of very weak lig (MERCIA MUDSTONE) Trial pit terminated at 2.0	oarse. Gravel int. n brown slig of mudstone ght greenish g GROUP)	is subangular to httly sandy CLAY with occasional	rounded fine to	(0.30)	
Die: /N	\'					1	Conoral	Domarka		L	
Plan (Not to S	cale)			A 11 C		General	Remarks			
02:0 Bearing		2.00	90°	2. I 3. S	No grou	s similar and stable. Indwater encountered durii ay carried out at 2.00m.	ng excavation.				
Method			Plan	†		All dimensions in metres		Scale:	1:25 Checked		
Used:	Mac	hine c			Trac	cked excavator	Logged By:	GKalaher	Ву:		AG





Contract:					Client:		Trial Pi	t:		
EMG Pha	se 2					SEGRO			TF	203
Contract Ref:	Start:	03.	0.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	03.	0.22					1	of	5
Samples and In city Toots		_	_					Donth	NAC	atorial

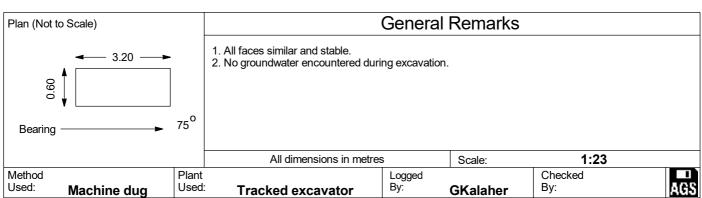
	Sam	iples a	and In-si	tu Tests	te	₹	Description of Otrota	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
	- - 0.15 0.15	1 2	ES D				TOPSOIL.	(0.30)	1/ 2 1/ 2 1/ 2 1/ 2 1/ 2 1/ 2 1/ 2 2 1/ 2 1/ 2 1/ 2 1/ 2
//22 - 18:49 TC9	0.40 - 0.40 - 0.40-0.50	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 5
@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)	* · · · · · · · · · · · · · · · · · · ·
.soils.co.uk, Email: ask	1.50 1.50-1.60 - 1.50 - 1.50	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)	-	
ax: 01977-552299, Web: www	- - - - -						2.00m: Sand lenses absent. Occasional pockets (<100x50mm) of reddish brown sand.	-(2.20)	
vottenes, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. 1ei: 019/7-552255, Fax: 019/7-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/122 - 18/49 1C9	3.00	12	D V	c _u =24			3.00m: Firm, low cobble content and occasional boulders. Cobbles (<200x150x100mm) subangular siltstone. Boulders (<450x350x100mm) subangular siltstone.	- - - - - -	
et, Castleford, West Yorksh	_ 3.40-3.50 - - - - -	13	В				Trial pit terminated at 3.50m depth.	3.50	+
otteries, Pottery Stre	- - -							- - -	





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

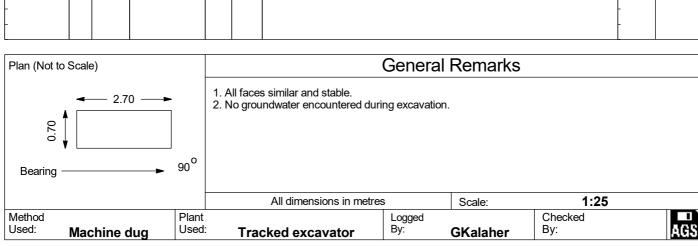
Samp	les a	and In-sit	u Tests	Water	Backfill		Description	of Ctroto		Depth	Material Graphic
Depth	No	Туре	Results	Ma	Bac		Description	or Strata		(Thick ness)	Legend
- 0.20 - 0.20	1 2	D ES				TOPSOIL.				- (0.40) - 0.40	\(\frac{1}{12} \cdot \frac{1}{12}
0.50 - 0.50 _ 0.50-0.60	3 4 5	D ES B				Very stiff dark yellowish SILT with occasional ler reddish brown fine to c subangular to rounded fil	nses (100x30 oarse sand. :	mm) and pockets Sand is fine to co	(<30x30mm) of	-	× · · · · · · · · · · · · · · · · · · ·
0.80		V	c _u =>140							(0.90)	× · · · · · · · · · · · · · · · · · · ·
1.50 - 1.50 - 1.50 _ 1.50-1.60	6 7 8	ES D B				Very stiff dark brown m CLAY. Sand is fine to c coarse of quartz, siltst occasional pockets (<30.	coarse. Grave cone, mudsto	l is subangular to ne, sandstone ar	rounded fine to nd chalk. With	1.30	*o- × :
2.00		V	c _u =120							(1.90)	
2.80		V	c _u =110							-	
3.00-3.10 - 3.00	10 9	B D				Trial pit terminated at 3.2	Om donth			3.20	
- - - - -						Thai pit terminated at 3.2	отпиврит.			-	
Plan (Not to S	Scale	e)				(General	Remarks			
900 V		3.20	75°			s similar and stable. Indwater encountered durir	ng excavation.				
Mothad			DIa4			All dimensions in metres		Scale:	1:23		
Method Used:	Mac	chine c	lug Plant Used		Trac	cked excavator	Logged By:	GKalaher	Checked By:		AGS





Contract:				Client:		Trial Pit	:		
EMG Pha	se 2				SEGRO			TI	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

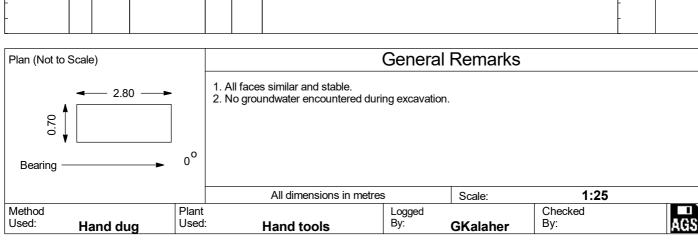
	Samp	oles a	nd In-sit	u Tests	Water	Backfill		Description	of Strata		Depth (Thick	Material Graphic
	Depth	No	Туре	Results	N N	Bac		Description	ui Siiaia		ness)	Legend
-	0.15 0.15	1 2	ES D				TOPSOIL				(0.35)	\(\frac{1}{12} \cdot \frac{1}{12}
18:50 TC9	0.40 0.40 0.40-0.50	3 4 5	ES D B				Dark orangish brown gra to rounded fine to coarse	e of quartz, flir	t and mudstone.	_	- - (0.30) - 0.65	0. e
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 redd with occasional local fre coarse. Gravel is suba sandstone, siltstone, flint	equent pocket angular to ro	s (<40mm) of silt. unded fine to co	Sand is fine to	(0.85)	
www.soils.co.uk, Email:	1.60 1.60-1.70 1.60	10 11 9	D B ES				Dark orangish brown gracontent and occasiona slightly sandy silty clay. siltstone, quartz and flin	I thin beds (Gravel is an	<20mm) of stiff (orangish brown	1.50	0.00 0.00 0.00 0.00
-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, 11/12/22 - 18:50 TC9	2.10 2.10 2.10 2.10-2.20	12 13 14	ES D B				Dark yellowish brown s boulder content. Sand is to coarse of siltstone, of and boulders (<450mm)	fine to coarse uartz, mudsto	e. Gravel is angular one, sandstone an	to rounded fine d flint. Cobbles	2.00	
Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977.	3.50	15	D				Below 3.40m: Mediu		ntent (<600x400x2	00m)	3.70	8:00 0. C. C. C. C. C. C. C. C. C. C. C. C. C.
ord: The Potteries, Pottery	Plan (Not to s	Scale	e)					General	Remarks		-	
Structural Soils Ltd, Branch Office - Castleford: The Port in yearson: V-	02:0 Bearing —		2.70	90°	2.1		s similar and stable. Indwater encountered durii	ng excavation				
al Soil							All dimensions in metres		Scale:	1:25		, -
Structur	Method Used:	Mac	hine d	lug Plant		Trac	cked excavator	Logged By:	GKalaher	Checked By:		AGS





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

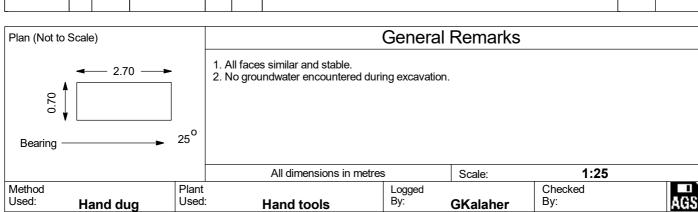
	Samp	les a	and In-sit	u Tests	Water	Backfill	Description	a of Strata		Depth	Material Graphic
	Depth	No	Туре	Results	Ma	Bac	Description	n or Strata		(Thick ness)	Legend
- 18:50 TC9	- - 0.20 - 0.20 - - 0.50 - 0.50 - 0.50-0.60	1 2 3 4 5	ES D ES D LB				TOPSOIL: Firm dark brown slightly with low cobble content. Sand is fi subrounded fine to coarse of quartzit Cobbles (<215x100x65mm) are angular MADE GROUND: Reddish brown glow cobble content. Gravel is angulatile, quartzite and mudstone. Cobble full and half brick, with occasional co	ine to coarse. Gravete, flint, brick, glass ular of full and half bravelly silty fine to coar to rounded fine to s (<215x100x65mm	vel is angular to and ceramic tile. brick. Dase SAND with coarse of brick, n) are angular of	-(0.40)	\$\dagger{\dagger
s - A4P 765514_EAST_MIDIAND_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	1.50 - 1.50 - 1.50 - 1.50-1.60	6 7 8	ES D LB				Tuli and Hall brick, with occasional co	nciele blocks (<400	X130X120((((()))	- (1.80) (1.80)	
01. 52299, Web:	2.00 	9	ES				below 2.00m: frequent cobbles fragments of rope.			2.20	
AIRPORT.GPJ - v10 2255, Fax: 01977-55	- - 2.40 - 2.40 - 2.40-2.50	10 11 12	ES D LB				POSSIBLE MADE GROUND: Firm dark grey, slightly sandy slightly gr coarse. Gravel is subangular and su and flint.	avelly clayey SILT.	Sand is fine to	-(0.60)	
AST_MIDLAND , NJ. Tel: 01977-5E	2.90-3.00 2.90	13 14	LB D				Stiff dark reddish brown mottled ligh fine to coarse. (MERCIA MUDSTONE GROUP)	t grey slightly sandy	/ CLAY. Sand is	2.80 - -(0.40)	<u>×</u> .×.
07 Log TRIAL PIT LOG Street, Castleford, West	-					*****	Trial pit terminated at 3.20m depth.			3.20	
001 PrjVer			,				Conoro	I Damarka			
sion: v8_07 astleford: TI	Plan (Not to S	scale	e) 2.80) 			similar and stable.	l Remarks			
GINT_LIBRARY_V10_01GLB_LibVersion: v8_07_001 PrjVersion: v8_ Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery	02:0 Bearing —			0°		ino grou	ndwater encountered during excavatio	n.			
3RARY I Soils							All dimensions in metres	Scale:	1:25		
GINT_LIE Structura	Method Used:	На	and du	g Plai			Hand tools Logged By:	GKalaher	Checked By:		AGS





Contract:				Client:	Client:				
EMG Pha	se 2						TI	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

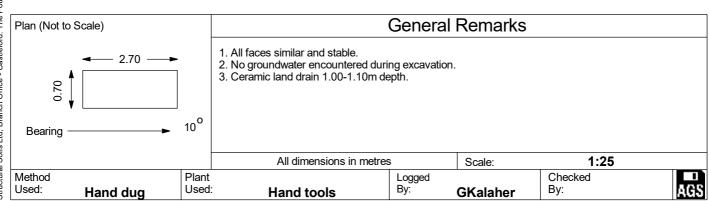
	Sam	oles a	ınd In-si	tu Tests	ter	kfill	D	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
	- 0.20 - 0.20	1 2	ES D				TOPSOIL	_ _(0.35) - 0.35	1/2 · 2/4/2 · 3/4/2 ·
o.uk. 11/12/22 - 18:51 TC9	0.60 0.60 0.60-0.70 0.60	3 4 5	ES D LB V	c _u =110			Stiff 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	P10
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

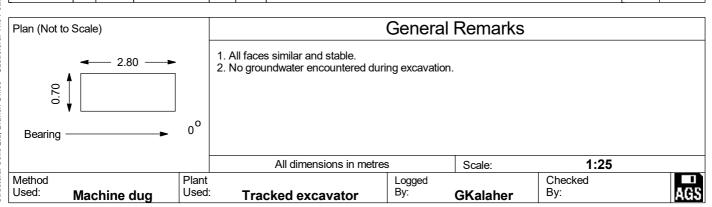
	Samp	Samples and In-situ Tests Depth No Type Result				Water	Backfill	Decembring of Charles	Depth	Material Graphic
	Depth	No	Туре	Result	s	Ma	Bac	Description of Strata	(Thick ness)	Legend
16	0.20	1 2	ES					TOPSOIL	- (0.40) - 0.40	17 - 3-17 - 3-17 17 - 3-17 - 3-17 17 - 3-17 - 3-17
/22 - 18:51 TC9	0.50 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. Very stiff dark orangish brown slightly sandy slightly gravelly CLAY.	(0.30)	
s.co.uk. 11/12	0.80 0.80 -0.80 -0.80-0.90	6 7 8	ES D LB					Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartzite, flint and chalk.	_(0.55)	
orkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, 11/12/22 - 18:51 TC9	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.	1.25	
ix: 01977-552299, Web: wv	2.10 2.10 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.	2.00	
1NJ. Tel: 01977-552255, F	- 3.10	15	D					below 2.50m: stiff to very stiff.	(1.20)	
5≿ ⊦								Trial pit terminated at 3.20m depth.	-	
Pottery Street, Castlefo	- - -								-	
Potteries,	-									
rd: The	Plan (Not to	Scale	e)					General Remarks		
Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, Wee	02:0 Bearing —	100				2. N	lo grou	s similar and stable. ndwater encountered during excavation. c land drain 1.00-1.10m depth.		
ral Soi	NA (1 - 1			1.				All dimensions in metres Scale: 1:25		
Structu	Method Used:	Ha	and du		Plant Used:			Hand tools Logged By: GKalaher Checked By: By:		AGS





Contract:				Client:	Client: SEGRO					
EMG Pha	se 2						T	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	

	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
16:	- 0.20 - 0.20	1 2	ES D				TOPSOIL	- -(0.40) - 0.40	\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}{2}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\frac{1}\)\(\
. 11/12/22 - 18:51 TC	- 0.60 - 0.60 - 0.60-0.70	3 4 5	ES D B				Compact dark orangish brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is angular to rounded fine to coarse of quartzite.	-(0.60)	* · · × · · · · · · · · · · · · · · · ·
co.uk, Email: ask@soils.co.uk	- - 1.20 - 1.20 - 1.20-1.30	6 7 8	ES D B				Stiff dark orangish brown and greyish brown slightly sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of flint, quartzite and chalk.	(0.70)	* * * * * * * * * * * * * * * * * * *
: 01977-552299, Web: www.soils.	- - 1.80 - 1.80-1.90 -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)	
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	3.30 - 3.30 - 3.30 - 3.30	12 13 14	ES D B				Below 2.90m: with frequent lenses of reddish brown and yellowish orange firm silt (<100mm). 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.	3.20	
tteries, Pottery Street, Castleford, West Y	-						,	- - - - - -	

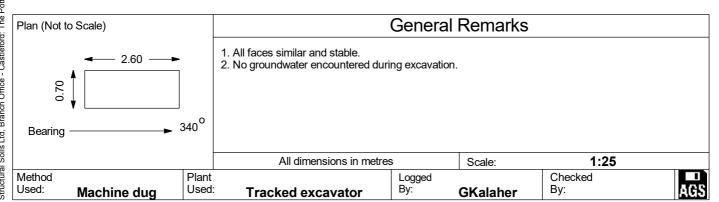




STRUCTURAL SOILS TRIAL PIT LOG

Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			TF	P12
Contract Ref:	Start:	04.10.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	04.10.22		73.79	E:445742.7 N:325045.7		1	of	4

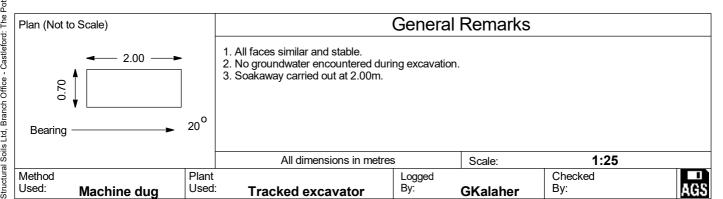
	Samp	oles a	nd In-si	tu Tests	ter	Kfill	D	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
16	0.20 0.20	1 2	ES D				TOPSOIL	-(0.40)	\$\frac{1}{2} \cdot \frac{1}{2} \frac{1} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2} \f
. 11/12/22 - 18:51 TC9	- 0.50 0.50 - 0.50-0.60 -	3 4 5	ES D B				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	- (0.60)	* · · · · · · · · · · · · · · · · · · ·
co.uk, Email: ask@soils.co.uk	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.	- (0.80)	· · · · · · · · · · · · · · · · · · ·
teries, Pottery Street, Častteford, West 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	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. Trial pit terminated at 3.70m depth.	(1.90)	
teries, Pottery Street, Castleford	-						That pit continued at 0.7 offi doput.	- - - -	





Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			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

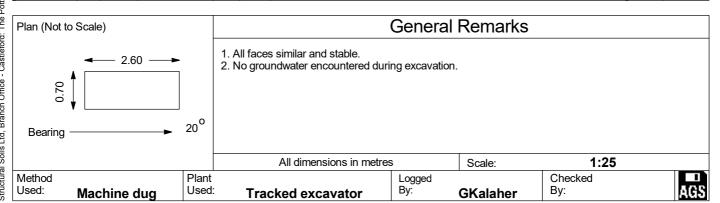
	Sam	ples a	nd In-sit	tu Tests	ter	Kfill		Depth	Material
•	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
1691	- - 0.30 - 0.30	1 2	ES D				TOPSOIL	(0.50)	
®soils.co.uk. 11/12/22 - 18:52	- 0.60 - 0.60 - 0.60-0.70 -	3 4 5	ES D B				Firm dark yellowish orangish brown 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	





Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			T	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

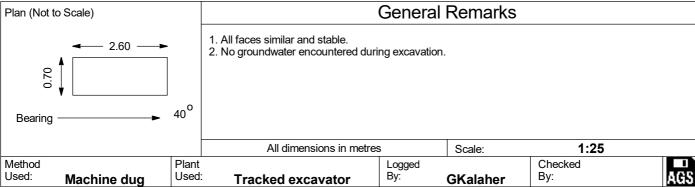
	Samp	les a	ınd In-sit	u Tests	Water	Backfill		Description (of Strata		Depth (Thick	Material Graphic
	Depth	No	Туре	Results	×	Ba		Description	UI Stiata		ness)	Legend
	0.20	1	ES				TOPSOIL				(0.30)	70.70.70.7 1.7.7.1.7.1.1.1.1.1.1.1.1.1.1.1.1.1.1
52 TC9	- 0.20 - - 0.40 - 0.40 - 0.40-0.50	2 3 4 5	D ES D LB				Compact dark orangish b to coarse. Gravel is subar	orown slightly ngular to rour	gravelly sandy SIL ided fine to coarse	_T. Sand is fine of quartzite.	(0.35)	* · · · · · · · · · · · · · · · · · · ·
1/12/22 - 18:	- 0.70 - 0.70	6 7	ES D				Very stiff dark reddish br coarse.				0.65 - 0.85	x
soils.co.uk. 1	- 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 fr sandy CLAY. With freque grey siltstone.	iable dark re ent very thin	ddish brown and liq beds (<40mm) of	ght grey slightly very weak light	(0.45)	
, Email: ask@s	_ 1.00 - _ 1.40 - 1.40	12 13	V ES D	c _u =>140			Stiff friable dark reddish CLAY. With occasional m	brown locally nudstone litho	/ mottled light grey relics (<10x10mm)	y slightly sandy).	1.30	
A4P 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01. orkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:52 TC9	- 1.40-1.50 _ 1.40 - - -	14	LB V	c _u =110			below 2.00m: with	frequent very	thin beds (<40mi	m) of extremely	- - -	
ORT.GPJ - v10_01. 5, Fax: 01977-552299,	2.10	15	D				weak and very weak redd	ish brown mu	idstone and siltstor	ne.	(1.90)	
EAST_MIDLAND_AIRF INJ. Tel: 01977-55225	- 2.80 	16	D				2.70-2.90m: thin be light greenish grey siltstor		of extremely weak	and very weak	-	
A4P 765514_E orkshire, WF10	- 3.30-3.40 - 3.30	17 18	LB D				Extremely weak locally fri	able dark red	dish brown MUDS	TONE.	3.20	
ا پر ق	- -						Trial pit terminated at 3.70	Om depth.			3.70	
07 Log TRIAL PIT LC	- - -										- -	
GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_ Structural Soils Ltd, Branch Office - Castleford: The Potteries, Pottery	-										-	
107 001 1: The Po	Plan (Not to	Scale	e)				(General	Remarks			
bVersion: v8 e - Castlefor	_ ^	←	2.60) 			s similar and stable. Indwater encountered durin	g excavation.				
0_01.GLB Li Branch Office	0.70			20°								
ARY V1 sils Ltd,	Bearing —			→ 20								
LIBR/ tural So	Method			Plan	t		All dimensions in metres	Logged	Scale:	1:25 Checked		
GINT		Mac	hine d			Trac	cked excavator		GKalaher	By:		AGS





Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			T	P17
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.	-	

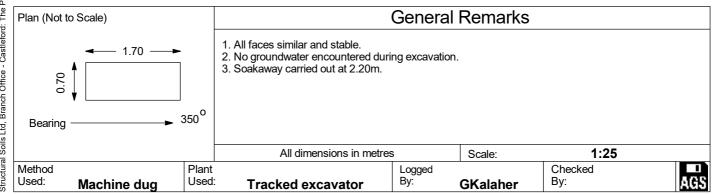




TRIAL PIT LOG

Contract:				Client:		Trial Pit:			
EMG Pha	se 2						TI	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

	Samp	oles a	and In-si	tu Tests	Water	Backfill	Depaription of Strate	Depth	Material Graphic
	Depth	No	Туре	Results	×	Вас	Description of Strata	(Thick ness)	Legend
	- 0.20 - 0.20	1 2	ES D				TOPSOIL (TOPSOIL)	(0.35) - 0.35	70.70.7 17.74.7 24.75.7
18:52 TC9	0.40 0.40 0.40 0.40-0.50	3 4 5	ES D LB				Firm dark orangish brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartzite and flint.	0.60	× · · · · · · · · · · · · · · · · · · ·
k. 11/12/22 - 1	0.70 - 0.70 - 0.70-0.80	6 7 8	ES D LB				Very stiff dark reddish brown slightly sandy slightly gravelly CLAY. With 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.	- -	000 -000
mail: ask@soils.co.ul	- - - -							1.50	000 000 000
sries, 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	1.70 - 1.70-1.80 - 1.70 - 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)	
52255, Fax: 01977-55 <i>2</i> ;	-						Trial pit terminated at 2.20m depth.	-	
10 1NJ. Tel: 01977-5	- - -							- - - -	
West Yorkshire, WF	-							- - -	
Street, Castleford,	- - -							- - -	
eries, Pottery S	-							- - -	

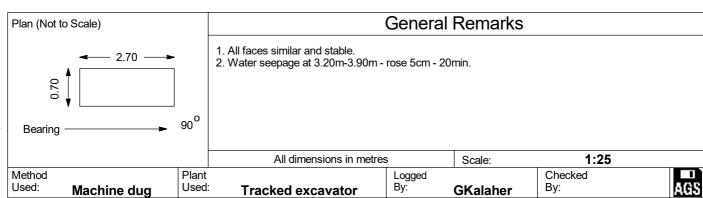


GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PnVersion: v8_07 | Log TRIAL PIT LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10_1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:52 | TC9 |



Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			T	P19
Contract Ref:	Start:	28.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	28.09.22		75.72	E:446353.6 N:324934.2		1	of	4

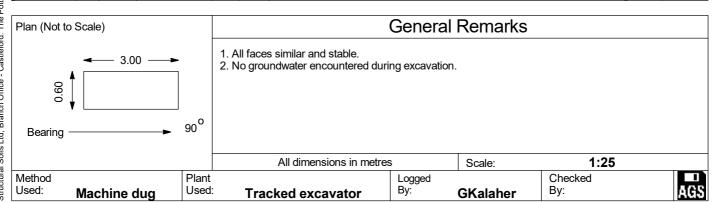
	Samples and In-situ Tests Depth No Type Results		tu Tests	ter	¥	Description of Otroto	Depth	Material Graphic	
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Legend
	- - 0.15 0.15	1 2	ES D				TOPSOIL	(0.30)	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	0.40 - 0.40 - 0.40 - 0.40	3 4 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)	
	- 1.70 - 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 quartzite1.80m: Boulder (<200x200x150mm) of subangular siltstone.	(0.30)	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	* · × · × · × · × · × · × · × · × · × ·
Į		Ш							





Contract:				Client:		Trial Pit:			
EMG Pha	se 2			SEGRO				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

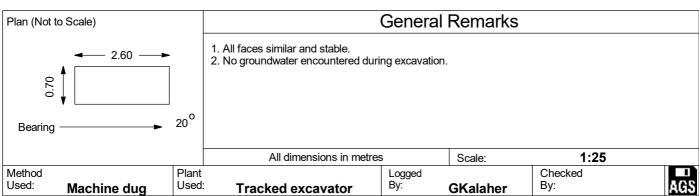
	Sa	amples	and	d In-sit	u Tests	ter	kfill	D	Depth	Material
	Depth	N) T	Гуре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
	- - 0.15 _ 0.15	1 2		ES D				TOPSOIL.	(0.30)	\(\frac{1}{2}\), \(\frac{1}\), \(\frac{1}\), \(\frac{1}{2}\), \(\frac{1}{2
12/22 - 18:53 TC9	- 0.50 - 0.50 -	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)	(0.70)	
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 - 18:53 TC9	- - - - - - - - - - - - - - - - - - -	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	
hire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-55	3.10-3.20 3.20	9	- 1	B D				Below 2.90m: grading to extremely weak mudstone. Trial pit terminated at 3.20m depth.	3.20	
teries, Pottery Street, Castleford, West Yorksh	- - - - - -								- - - - - -	





Contract:				Client:		Trial Pit:			
EMG Pha	se 2						TI	P22	
Contract Ref:	Start:	05.10.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	05.10.22		71.96	E:445927.4 N:324535.6		1	of	4

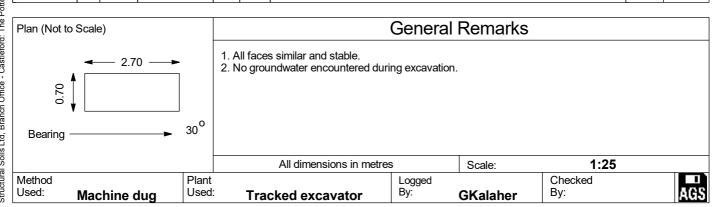
		717	Liiu.	1	U.ZZ	7 1.30 E.440327.4 14.024000.0		
Sar	mples a	and In-sit	u Tests	Water	Backfill	December of Otroto	Depth	Materia
Depth	No	Туре	Results	×	Bac	Description of Strata	(Thick ness)	Graphic Legend
						TOPSOIL		71/2
0.15	1	ES					(0.30)	17 - 71-14 - 7
0.15	2	D				Chiff vallouish brown and arangish brown clighty condy dightly grouply	0.30	. <u>\\\</u> .\\\
0.40	3	ES				Stiff yellowish brown and orangish brown slighty sandy slightly gravelly clayey SILT. Sand is fine to coarse. Gravel is subangular to rounded fine	-	×
0.40 0.50-0.50	4 5	D B				to coarse of quartz and flint.	-	$\overline{\mathbf{x}}_{\infty}$
0.50-0.50								× × ×
							(0.90)	···
							-	× · · · ×
-							-	× ×
							1.20	× — ×
1.30	6	ES				Firm stiff dark orangish reddish brown slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to rounded fine to	-	×
1.30	7	D				coarse of guartz, flint, chalk, siltstone, sandstone and mudstone, with	-	×- ×-
1.30-1.40	8	В				frequent pockets (<50x30) of yellow and orange silt and sand with occasional very thin lenses (<40mm) of red brown fine to coarse sand.	_	×
						, ,		Xo
							_	× ÷
-							-	- ×
-							_	×
							(0.40)	× ×
							(2.10)	X
-							_	<u>-°-^.</u>
-								<u>*</u> -
•								
							_	× · · ·
-							-	×
-				_				<u> </u>
-				1	7		-	x · _ ·
				<u> </u>		Dark orangish brown slightly gravelly silty SAND. Sand is fine to coarse.	3.30	<u>~~</u>
3.40	10	D				Gravel is subangular to rounded fine to coarse of quartz and flint.	(0.30)	×
3.40-3.50 3.40	11	B ES					3.60	0 ×
						Trial pit terminated at 3.60m depth.	_	
							-	
- -								
-							-	
-							_	
							-	
Dlan /Nat t	o Cool	۵)				General Remarks		
Plan (Not to Scale)								
	4	2.60				s similar and stable. ndwater encountered during excavation.		
0	↑			'	g, ou	Silverine of Laning Orion and in		
0.70	↓							
	• —		20°					
Bearing			∠∪					
						All dimensions in metres Scale: 1:25		
Method			Plan			Logged Checked		
Used:	Mad	chine d	lug Used	d:	Trac	cked excavator By: GKalaher By:		AC





Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			TI	P23
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

Samples and In-situ Tests		Water	Backfill	Description of Strata	Depth (Thick	Materia Graphi		
Depth	No	Туре	Results	×	m m	·	ness)	Legen
- 0.20 - 0.20	1 2	ES D				TOPSOIL	(0.40)	·7.0.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7
0.50 - 0.50 - 0.50 - 0.50-0.60 - 0.70-1.00	3 4 5 8	ES D B B				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	
0.90 -0.90 -0.90 -0.90 	9 10	ES D > B D	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)	
Plan (Not to S	Scale	e)				General Remarks		
02.0 Bearing —	4	2.7(30°	1. <i>F</i> 2. N	All faces	s similar and stable. Indwater encountered during excavation.		
						All dimensions in metres Scale: 1:25		

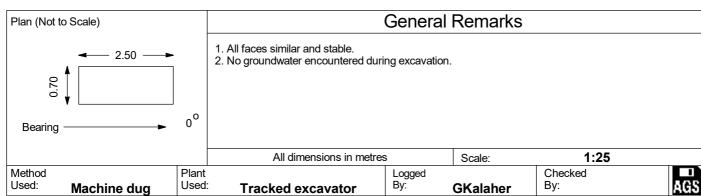




TRIAL PIT LOG

Contract:				Client:	Client:				
EMG F	Phase 2				SEGRO			TF	P24
Contract Ref:	Start:	05.10).22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	05.10).22	69.09	E:446132.1 N:324501.5		1	of	4
Samples and In-situ	Tacte	_	_				Donth	Ms	aterial

	Samples and In-situ Tests			ie	- Jiji		Depth	Material	
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
	- 0.05 0.05	1 2	ES D				TOPSOIL Compact dark yellowish brown slightly sandy slightly gravelly SILT with	0.10	0° ×0.0
1601	0.30 0.30 0.30 0.30-0.40	3 4 5	ES D B				low cobble content. Sand is fine to coarse. Gravel is angular to rounded fine to coarse of quartz and flint. Cobbles (<100x90x60mm) are rounded of quartz.	0.40)	\$\display \times
ık. 11/12/22 - 18:54	0.60 - 0.60 - 0.60-0.70 - 0.60	6 7 8	ES D B V	c _u =110			Stiff to very stiff friable dark reddish brown and light grey slightly sandy CLAY with frequent very thin beds (<60mm) of very weak light grey siltstone. Sand is fine to coarse. (MERCIA MUDSTONE GROUP)	- -(0.60)	
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	- 1.20 - 1.20-1.30 - 1.20 - 1.20 - 1.20 	10 11 9	D B ES >	c _u =120			Stiff to very stiff dark reddish brown slightly sandy CLAY with frequent very thin beds (<40mm) of extremely weak to very weak dark reddish brown mudstone. (MERCIA MUDSTONE GROUP) Trial pit terminated at 3.10m depth.	-(2.00)	
Potteries, Pottery Street, Castleford, West	- - - - -							- - - - -	

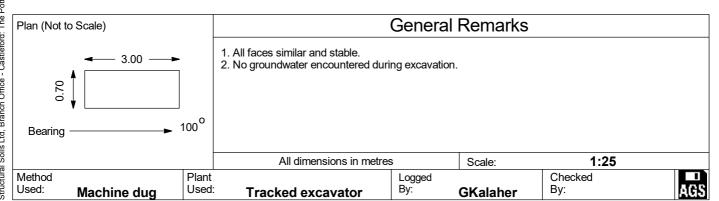


GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PnVersion: v8_07 | Log TRIAL PIT LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10_1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:54 | TC9 |



Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			TI	P25
Contract Ref:	Start:	27.09.22	Groun	nd 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-sit	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	(0.40)	70.74.7 17.74.74.7
2/22 - 18:54 TC9	- - - 0.60 - 0.60 - 0.60-0.70	3 4 5	ES D LB				Very stiff dark orangish brown slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is subangular fine to coarse of quartzite with occasional pockets (<10x10m) of black organic carbonised plant remains.	(0.50)	// \ \ / / / \ \ / / \ \ \ / / \ \ \ \
ls.co.uk, Email: ask@soils.co.uk. 11/12	- 1.10 - 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)	x · x x x x x x x x x x x x x x x x x x
Yorkshre, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/12/22 - 18:54 TC9	2.00 - 2.00-2.10 - 2.00 - 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	
st	3.20 - 3.20 - 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	
tteries, Pottery Street, Castleford, We	- - -							- - -	

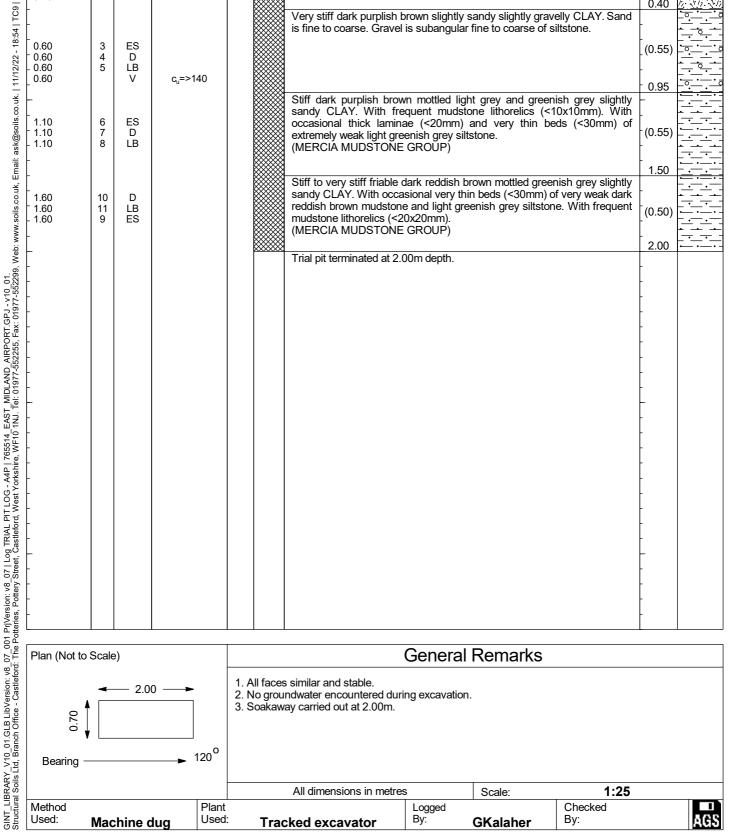




STRUCTURAL SOILS

Contract:				Client:		Trial Pit:			
EMG Pha	se 2						TI	P26	
Contract Ref:	Start:	30.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	30.09.22		76.87	E:445943.0 N:324731.8		1	of	3

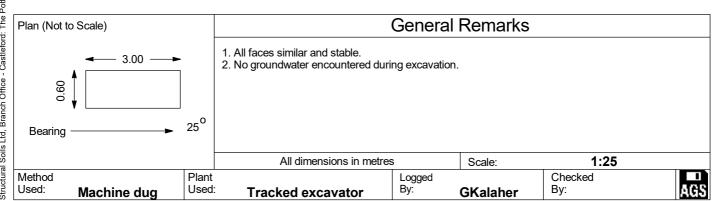
	Samp	oles a	nd In-sit	tu Tests	ter	E		Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
16:	0.20 0.20	1 2	ES D				TOPSOIL	- (0.40) - 0.40	\$\frac{1}{2} \cdot \frac{1}{2}
I/12/22 - 18:54 TC	- 0.60 - 0.60 - 0.60 0.60	3 4 5	ES D LB V	c,=>140			Very stiff dark purplish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular fine to coarse of siltstone.	(0.55)	
nail: ask@soils.co.uk. 11	- 0.00 - 1.10 - 1.10 - 1.10	6 7 8	ES D LB	C ₀ =2 140			Stiff dark purplish brown mottled light grey and greenish grey slightly sandy CLAY. With frequent mudstone lithorelics (<10x10mm). With occasional thick laminae (<20mm) and very thin beds (<30mm) of extremely weak light greenish grey siltstone. (MERCIA MUDSTONE GROUP)	0.95 - - - - - - - - - - - - - - - - - - -	
eb: www.soils.co.uk, En	- 1.60 - 1.60 - 1.60	10 11 9	D LB ES				Stiff to very stiff friable dark reddish brown mottled greenish grey slightly sandy CLAY. With occasional very thin beds (<30mm) of very weak dark reddish brown mudstone and light greenish grey siltstone. With frequent mudstone lithorelics (<20x20mm). (MERCIA MUDSTONE GROUP)	(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. 11/1/2/22 - 18:54 TC9							Trial pit terminated at 2.00m depth.	- - - - - - - - - - - - - - - - - - -	





Contract:				Client:		Trial Pit:			
EMG Pha	se 2						T	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

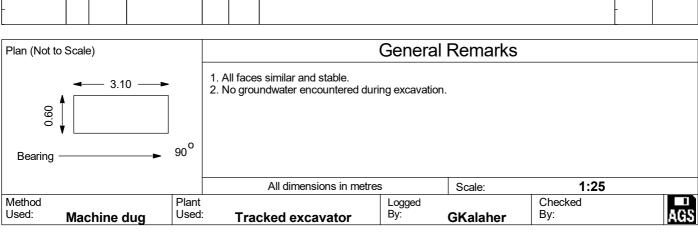
	Samp	oles a	nd In-sit	tu Tests	Water	Backfill	Description of Charts	Depth	Material Graphic
	Depth	No	Туре	Results	Wa	Вас	Description of Strata	(Thick ness)	Legend
- 18:34 189	- 0.20 - 0.20 - 0.20 - 0.20-0.30 - 0.50 - 0.50 - 0.50	1 2 3 4 5 6	ES D B ES D B				TOPSOIL. Very stiff light brown and light grey slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subangular tabular of siltstone. \((MERCIA MUDSTONE GROUP) \)	- (0.40) - (0.40 - 0.40 - 0.65	
IIaii. ask@soiis.co.uk. 11/12/22	0.70 - 0.70 - 0.70-0.80 _ 0.70	7 8 9	ES D B >	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) - - - 1.50	
DDZZBB, WVED. WWW.SOIIS.CO.CIN, EI	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)	- - - - - - - (1.50)	
iei. 01977-332233, 1 av. 01977-	2.60-2.70 - 2.60	13 14	B D				2.50m: With frequent thick laminate to very thin beds (<30mm) of reddish brown mudstone. Trial pit terminated at 3.00m depth.	3.00	
elles, Fouely Sueer, Casuelola, West Folkslille, WFTO 1193.							mai pit temiliateu at 3.00m uepin.	-	





Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			Т	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

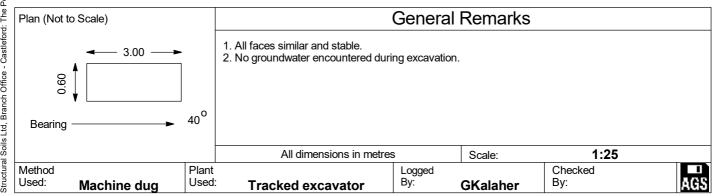
	Samı	oles a	nd In-si	tu Tests	ter	kfill	Description of Otroto	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
	- - 0.15 0.15	1 2	ES D				TOPSOIL.	(0.30)	17 · 3 · 17 · 3 · 17 · 3 · 17 · 3 · 17 · 3 · 17
. 11/12/22 - 18:54 TC9	0.50 - 0.50 - 0.50 - 0.50-0.60 - 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 - 1.10-1.20 _ 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)	-	
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 - 18:54 TC9	- - - - - - - -						Below 2.00m: Occasional siltstone and frequent extremely weak reddish brown mudstone beds.	(2.30)	
tteries, Pottery Street, Castleford, West Yorkshire, WI	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	it:		
EMG Pha	se 2				SEGRO			TF	P29
Contract Ref:	Start:	26.0	9.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	26.0	9.22	73.09	E:446243.6 N:324661.8		1	of	4
Samples and In city Toste		_	_				Donth	NAC	ntorio

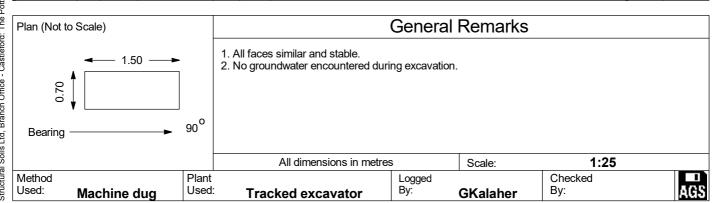
	Sam	iples a	and In-si	itu Tests	te	₩	Description of Otroto	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
s.co.uk. 11/12/22 - 18:55 TC9	0.20 - 0.20 - 0.20-0.30 - 0.50 - 0.50 - 0.50-0.60	1 2 3 4 5 6	ES D B ES D B				TOPSOIL Stiff to very stiff dark 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.		





Contract:				Client:		Trial Pit:				_
EMG Pha	se 2				SEGRO			TI	P3()
Contract Ref:	Start:	22.09.22	Groun	nd Level (m AOD):	National Grid Co-ordinate:	Sheet:				
765514	End:	22.09.22		66.68	E:446232.9 N:324495.5		1	of	3	

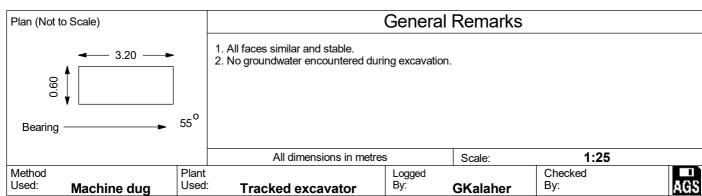
	Sam	ples a	nd In-si	tu Tests	ter	Kfill	D	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
							TOPSOIL	0.20	17 · 34 · 14 · 15 · 15
22 - 18:55 TC9	0.20-0.20 0.20-0.20 0.20-0.35 0.40-0.40 0.40-0.40	1 2 3 4 5 6	ES D LB ES D LB	1xT+1xJ+1xV 1xT+1xJ+1xV			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.	-(0.60)	** * * * * * * * * * * * * * * * * * *
@soils.co.uk. 11/12/	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)	- - -(0.45) - - 1.25	
o.uk, Email: ask	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)	- - - (0.75)	
b: www.soils.cc	- - -							2.00	
tteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk, Email: ask@soils.co.uk. 11/1/2/22 - 18:55 TC9	·						Trial pit terminated at 2.00m depth.	- - -	
IJ. Tel: 01977-552255	-							- - -	
t Yorkshire, WF10 11	- - -							- - -	
et, Častleford, Wes								- - -	
teries, Pottery Strei	- - -							- - -	





Contract:				Client:		Trial Pi	it:		
EMG	Phase 2				SEGRO			TF	P31
Contract Ref:	Start:	06.10).22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	06.10).22	70.79	E:446338.0 N:324723.9		1	of	4
Samples and In-situ	Tests	Je Je	≣				Depth	Ma	aterial

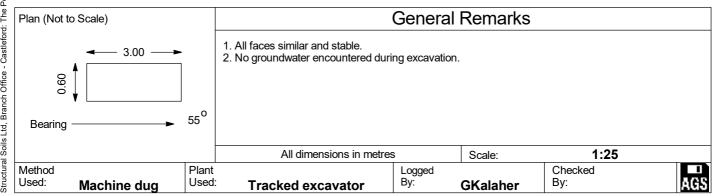
	Sam	ples a	and In-si	tu lests	Ite	Ř	December of Church	Depth	Material Graphic
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Legend
	- - 0.15 0.15	1 2	ES D				TOPSOIL	(0.30) 0.30	17 · 34 · 17 · 34 · 17 · 34 · 17 · 34 · 17 · 34 · 17 · 34 · 17 · 34 · 34 · 34 · 34 · 34 · 34 · 34 · 3
22 - 18:55 TC9	0.40 - 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)	
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	
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1	- - - - - - - - -						Trial pit terminated at 3.20m depth.	3.20 - - - - - - - -	* *





Contract:				Client:		Trial Pi	it:		
EMG Pha	se 2				SEGRO			TP	232
Contract Ref:	Start:	23.0	9.22	Ground Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End:	23.0	9.22	64.32	E:446337.6 N:324462.3		1_	of	4
Samples and In-situ Tests		ڀ	_				Donth	Ma	terial

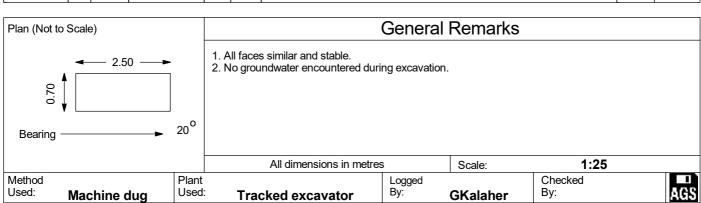
	Sam	iples a	and In-si	tu Tests	ţe.	量	D	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
16	- 0.20 - 0.20 - 0.20-0.30	1 2 3	ES D B				TOPSOIL Very stiff dark brown slightly sandy CLAY with frequent very thin beds	(0.35)	\(\frac{1}{2}\frac{1}{
1/12/22 - 18:55 TC	0.50 0.50 0.50-0.60	4 5 6	ES D B				(<30mm) of extremely weak light grey siltstone.	(0.55)	
co.uk, Email: ask@soils.co.uk. 1	1.10 - 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)	
b: www.soils.	1.80		V	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	1.80	
al: 01977-552255, Fax: 01977-552299, We		10 11 12	ES D B				coarse. (MERCIA MUDSTONE GROUP)	-(1.20)	
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 - 18:55 TC9							Trial pit terminated at 3.00m depth.	- - - - - - - - - -	





Contract:				Client:		Trial Pit:			
EMG Pha	ase 2				SEGRO			T	P33
Contract Ref:	Start:	21.09.22	Groun	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

	Samı	ples a	ınd In-si	tu Tests	Water	Backfill	Decemption of Strate	Depth	Material Graphic
	Depth	No	Туре	Results	M	Вас	Description of Strata	(Thick ness)	Legend
_	0.20-0.20 0.20-0.20	1 2	ES D	1xT+1xJ+1xV			TOPSOIL	(0.35)	70.70 7.70 7.70 7.70 7.70
soils.co.uk. 11/12/22 - 18:55 TC9	- 0.20-0.35 0.40-0.40 - 0.40-0.40 - 0.40 -	3 4 5	LB ES D V	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 lightly grey silstone. 0.50-1.40m: become friable. 0.75-1.40m: frequent mudstone lithorelicts (up to 25x25x30mm) and thick laminate of extremely weak mudstone (up to 20mm)	(1.05)	
ask@	1.20-1.20 1.20-1.40	6 7	D LB					1.40	· · · · · · · · · · · · · · · · · · ·
o: www.soils.co.uk, Email:	1.50-1.50 1.50-1.50 1.50-1.50 - 1.50	8 9	ES D V	1xT+1xJ+1xV c _u =150			Extremely weak dark reddish brown friable MUDSTONE. Occasional closely spaced thin beds (<40mm) of light greenish grey siltstone. (MERCIA MUDSTONE GROUP)	-	
255, Fax: 01977-552299, Wek	- - 2.20-2.80 - 2.20-2.20 - -	10	LB D					-(1.40) - -	
71NJ. Tel: 01977-552	2.90-2.90 	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)	2.80 -(0.40) 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. 11/12/22	- - - - - - - - -						Trial pit terminated at 3.20m depth.	- - - - - - -	

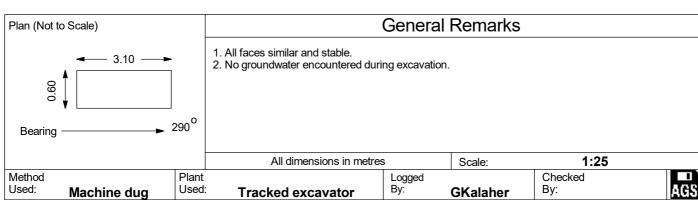




STRUCTURAL SOILS

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

	Sam	ples a	and In-sit	tu Tests	ter	kfill	D	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
: - 18:56 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 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)	- (0.40)	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
l: ask@soils.co.uk. 11/12/22	- - - - - 1.30	7	ES				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 multipostone lithorelics . (<30x30mm)	- (0.80) - - 1.20	
Veb: www.soils.co.uk, Email	- 1.30 - 1.30-1.40 - - - -	8 9	В				(MERCIA MUDSTONE GROUP) Extremely weak dark purplish brown MUDSTONE with occasional light	2.00	
el: 01977-552255, Fax: 01977-552299, W	2.10 - 2.10 - 2.10-2.20 - - -	10 11 12	ES D B				greenish grey reduction horizons. (<20mm) (MERCIA MUDSTONE GROUP) 2.30-2.45m: Extremely weak light greenish grey siltstone 2.60m: Friable.	(1.10)	
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. 1el: 01977-552295, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, 11/12/22 - 18:56 TC9	-						Trial pit terminated at 3.10m depth.	3.10	



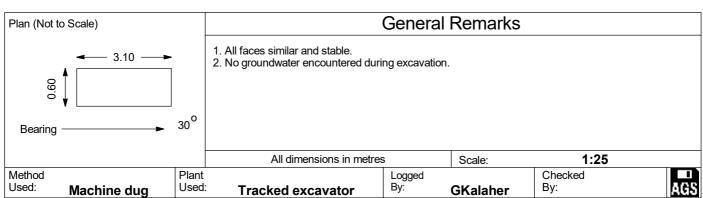


GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07 | Log TRIAL PIT LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10_1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:56 | TC9 |

STRUCTURAL SOILS

Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			T	P35
Contract Ref:	Start: 2	23.09.22	Groun	d Level (m AOD):	National Grid Co-ordinate:	Sheet:			
765514	End: 2	23.09.22		59.52	E:446518.6 N:324546.7		1	of	4

	Samp	oles a	nd In-si	tu Tests	Water	Backfill	Decembring of Strate	Depth	
	Depth	No	Type	Results	Wa	Вас	Description of Strata	(Thick ness)	Legend
	0.20 0.20 0.20-0.30 0.40 0.40-0.50	1 2 3 4 5	ES D B ES B				TOPSOIL 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.	0.30	1
)	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 x
	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)	
	-		V	c _u =52	*		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	2.80	
							sample) No significant/measureable rise 3.00m: Becoming firm to stiff with frequent thin beds (<30mm) of light greenish grey siltstone 3.2-3.40m: Friable. Trial pit terminated at 3.40m depth.	3.40	



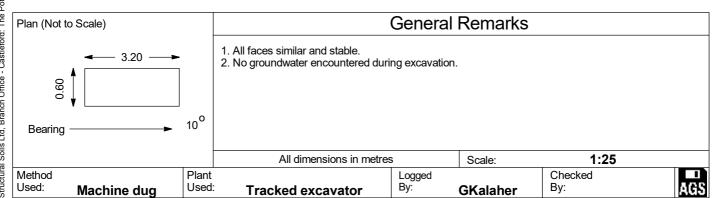


STRUCTURAL SOILS

TRIAL PIT LOG

Contract:				Client:		Trial Pit:			
EMG Pha	se 2				SEGRO			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-sit	tu Tests	ter	I III		Depth	Material
Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
0.10-0.20 0.20	3	B ES				TOPSOIL	(0.30)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
- 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
- 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)	(0.35) 1.10	
1.30	12 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)	
- 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 - - - (0.80)	
2.70-2.80 2.75	18 16	B ES				2.50-2.70m: Thin bed (<200mm) of very weak light greenish grey siltstone. Extremely weak dark reddish brown locally light grey MUDSTONE. (MERCIA MUDSTONE GROUP)	2.70	
- 2.75 - - - - - - - - - - - - - - - - - - -	17	D				Trial pit terminated at 2.80m depth.	-	



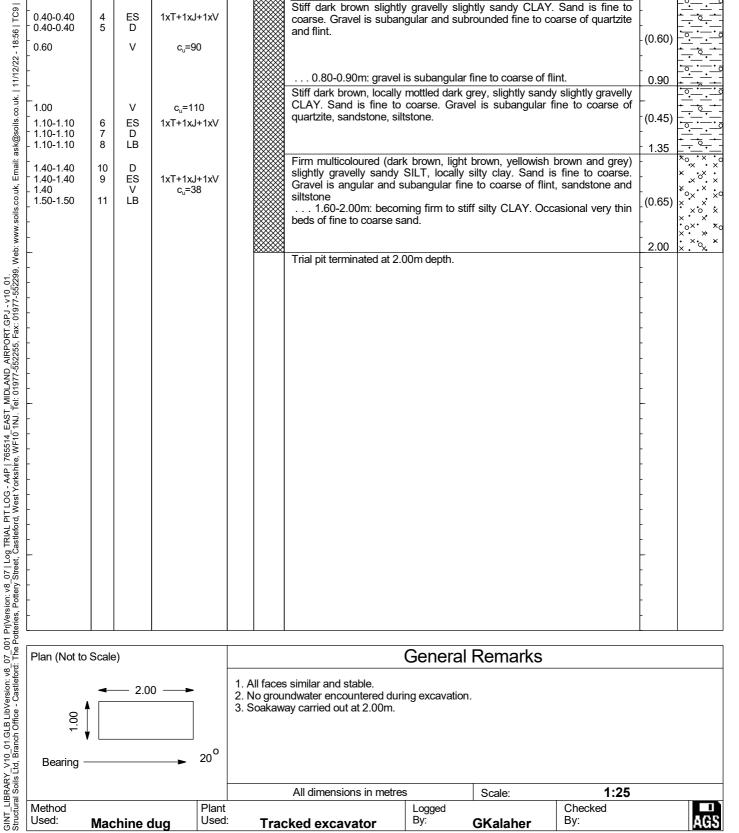
GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PŋVersion: v8_07 | Log TRIAL PIT LOG - A4P | 765514_EAST_MIDLAND_AIRPORT.GPJ - v10_01.
Structural Solis Lid, Branch Office - Castleford: The Potteries, Pottery Street, Castleford, West Yorkshire, WF10_1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.solis.co.uk, Email: ask@solis.co.uk, | 11/12/22 - 18:56 | TC9 |



STRUCTURAL SOILS

Contract:				Client:		Trial Pit:			
EMG Phase 2			SEGRO				T	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

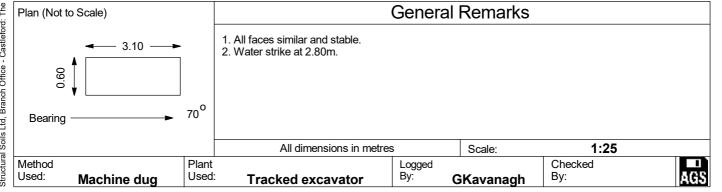
	Samp	ples a	nd In-sit	tu Tests	ter	kfill	D	Depth	Material
	Depth	No	Туре	Results	Water	Backfill	Description of Strata	(Thick ness)	Graphic Legend
	- 0.10-0.10 - 0.10-0.10 - 0.10-0.10	1 2 3	ES D LB	1xT+1xJ+1xV			Stiff dark brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse of quartzite, granodiorite, siltstone and glass and ceramic tile and plastic sheet. (MADE GROUND - TOPSOIL)	(0.30)	76.76.7 7.74.77
8:56 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)	
11/12/22 - 1	_ 0.60 _ _		V	c _u =90			0.80-0.90m: gravel is subangular fine to coarse of flint.	0.90	
Email: ask@soils.co.uk. 11/12/22 - 18:56 TC9	 1.00 1.10-1.10 1.10-1.10 1.10-1.10	6 7 8	V ES D LB	c _u =110 1xT+1xJ+1xV			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.	- (0.45) - 1.35	
eb: www.soils.co.uk, Email: as	1.40-1.40 - 1.40-1.40 - 1.40 - 1.50-1.50	10 9 11	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.	(0.65)	** * * * * * * * * * * * * * * * * * *
tteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. Tel: 01977-552255, Fax: 01977-552299, Web: www.soils.co.uk,							Trial pit terminated at 2.00m depth.	- - - - - - - - - - - - - - - - - - -	





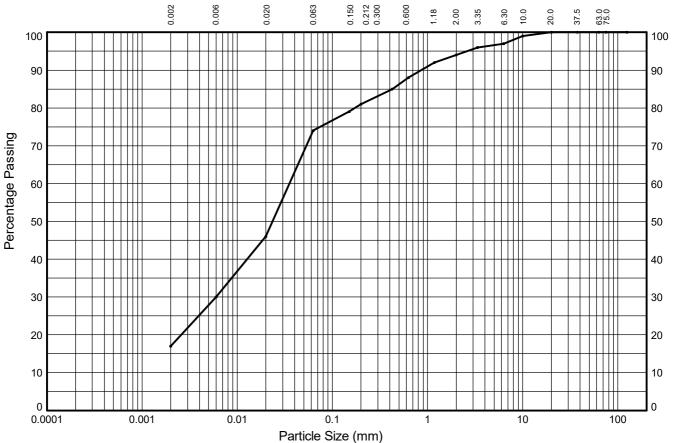
Contract:				Client:		Trial Pit:			
EMG Phase 2					SEGRO			TI	P39
Contract Ref: Start: 26.09.22 Ground		nd Level (m AOD):	National Grid Co-ordinate:	Sheet:					
765514	End:	26.09.22					1	of	3

	Sam	ples a	and 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)	1/ 2 1/ 2 1/ 1/ 2 1/ 2 1/ 2 1/ 2 1/ 2 1/ 2 2 1/
- 18:57 TC9	0.15-0.25 0.40 0.40	3 4 5	B ES D				Very stiff dark brown slightly sandy slightly gravelly silty CLAY. Sand s fine to coarse. Gravel is subangular to rounded fine to coarse of quartz and mudstone.	- 0.55	**************************************
1/12/22 - 18:	- 0.40-0.50 - 0.70 - 0.70 - 0.70-0.80	6 7 8 9	B ES D B				Firm to stiff thinly to thickly laminated dark brown slightly sandy CLAY. Sand is fine to coarse. 0.80m: Stiff greyish brown.	(0.65)	
ils.co.uk. 1	- 0.70-0.80 - -	9	Б					1.20	
t, Email: ask@sc	1.30 1.30 1.30 - 1.30-1.40	10 11 12	ES D B				Firm dark greyish brown and reddish brown slightly sandy gravelly silty CLAY with frequent pockets (<40x40mm) and thick laminae of yellow and orange silt. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse of quartzite.	-(0.40)	× × ×
Web: www.soils.co.uk	- - 1.80 - 1.80 _1.80-1.90	13 14 15	ES D B				Firm to stiff dark reddish brown mottled light grey slightly sandy CLAY with frequent mudstone lithorelics (<30x30mm) with occasional very thin beds (<30mm) of extremely weak to very weak light grey siltstone. (MERCIA MUDSTONE GROUP)	-	
552255, Fax: 01977-552299,	- - - -				<u>1</u> <u>1</u>			-(1.20)	
Yorksnire, WF10 1NJ. 1el: 01977-	- - 2.90 -2.90 - 2.90-3.00	16 17 18	ES D B		-		Firm to stiff friable dark reddish brown slightly sandy silty CLAY with abundant mudstone lithorelics (<60x60x30mm). (MERCIA MUDSTONE GROUP) 3.00m: With frequent very thin beds (<50mm) of mudstone and siltstone.	-(0.80)	X X X X X X X X X X X X X X X X X X X
otteries, Pottery Street, Castleford, West Yorkshire, WF10 1NJ. 1el: 01977-552255, Fax: 01977-552299, Web: www.solls.co.uk, Email: ask@solls.co.uk, 11/12/22	- - - - - -						Trial pit terminated at 3.60m depth.	- - - - -	



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Borehole: BH04 Sample Ref: 10 Sample Type: D Depth (m): 2.70



_											
I		fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
l	CLAY	13%	16%	28%	7%	7%	6%	3%	3%	0%	COBBLES
			SILT			SAND		(GRAVEL	_	
ſ	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 74

Particle Diameter	Percent Passing					
(mm)	(%)					
(11111)	(70)					
0.02	46					
0.02	40					
0.006	30					
0.000	30					
0.002	17					
0.002	17					
Sedimentation sample was not						
pre-treated						
·						

Coefficients								
NA								
NA								
0.006								
0.024								
0.035								
0.425								
0.862								
NA								
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

Comp	iled By
(Mescalle)	
Contract	

LORNA WHITWORTH

Contract Ref:

Date **27/02/23**

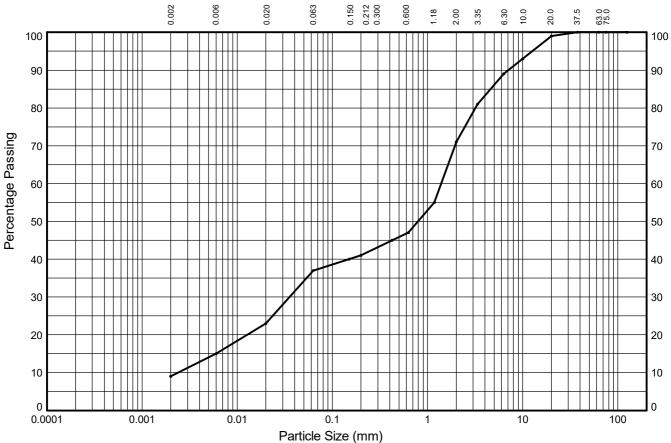
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Borehole: **BH05** Sample Ref: **20** Sample Type: **B** Depth (m): **5.00**



				`	,					
	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

Particle Diameter (mm)	Percent Passing (%)						
0.02	23						
0.006	15						
0.002	9						
Sedimentation sample was not pre-treated							
	<u> </u>						

Coefficients					
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				

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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LORNA WHITWORTH

Contract Ref:

Date **27/02/23**

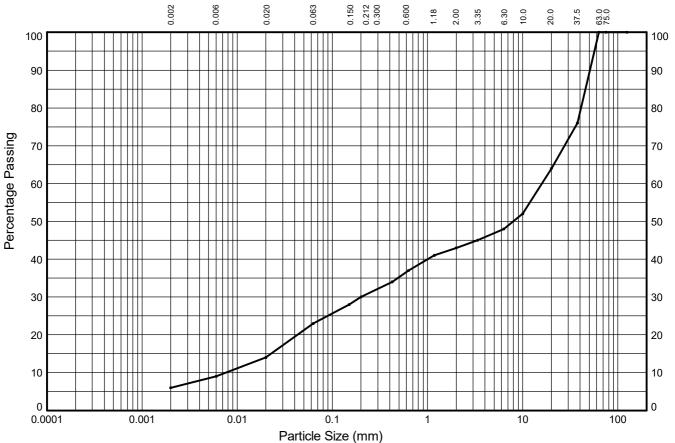
Contract

EMG Phase 2



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: B 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%			20%			57%		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

Percent Passing (%)			
14			
9			
6			
Sedimentation sample was not pre-treated			

Coefficients					
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 _U	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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	drychar	LAURA SCHRAMM		27/02/23
Contract			Contract Ref:	

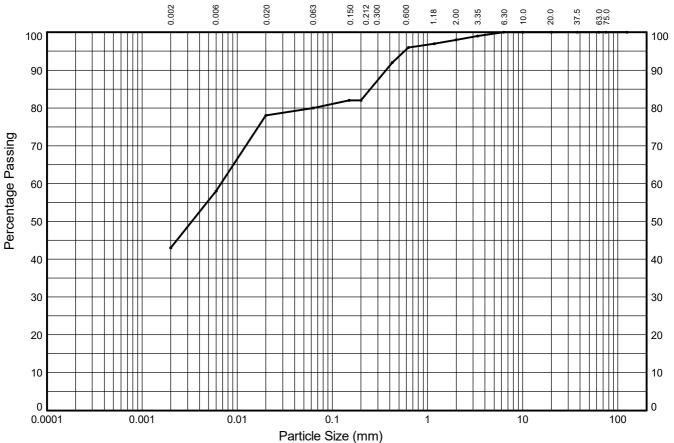
EMG Phase 2

765514

AGS

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	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	99
2.00	98
1.18	97
0.630	96
0.425	92
0.200	82
0.150	82
0.063	80

78			
58			
43			
Sedimentation sample was not pre-treated			

Coefficients					
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		Date
ar Jehan	LAURA SCHRAMM	27/02/23
Contract	Contract Ref:	

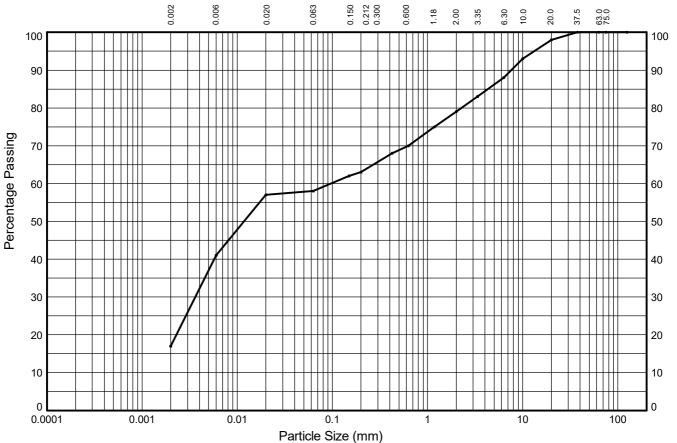
EMG Phase 2

765514

AGS

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%		

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 0.600 0.425 0.212 0.150 0.063	100 100 100 100 98 93 88 83 79 75 68

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			
Leich	LUKE FISHER	27/02/23	
Contract	Contract Ref:		

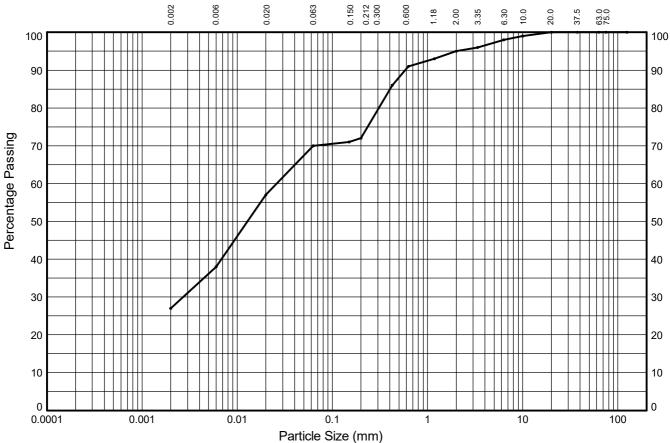
EMG Phase 2

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AGS

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	Percent Passing						
(mm)	(%)						
0.02	57						
0.006	38						
0.002	27						
Sedimentation sample was not pre-treated							
pre-treated							

Coefficients								
NA								
NA								
0.003								
0.013								
0.026								
0.403								
0.582								
NA								
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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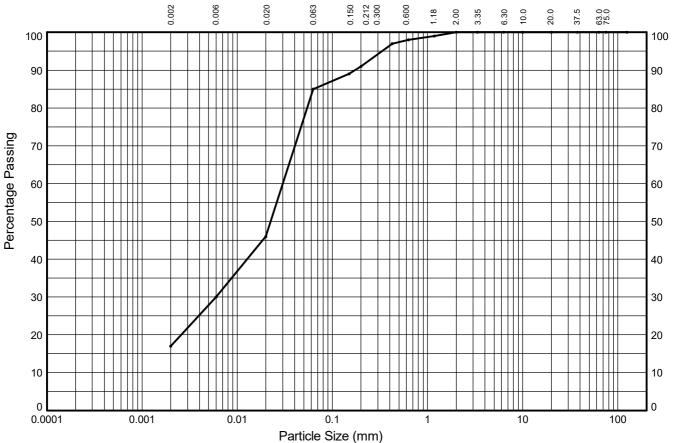
Compiled By					
LAURA SCHRAMM					
Contract	Contract Contract Ref:				

EMG Phase 2 765514



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	Percent Passing
(mm)	(%)
(11111)	(70)
125.0	100
75.0	100
63.0	100
00.0	
37.5	100
20.0	100
10.0	100
6.30	100
3.35	100
2.00	100
1.18	99
0.630	98
0.000	
0.425	97
0.200	91
0.150	89
0.063	85

Particle Diameter (mm)	Percent Passing (%)				
0.02	46				
0.006	30				
0.002	17				
	Sedimentation sample was not pre-treated				

Coefficients						
NA						
NA						
0.006						
0.022						
0.030						
0.063						
0.173						
NA						
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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LORNA WHITWORTH

Contract Ref:

Date 17/03/23

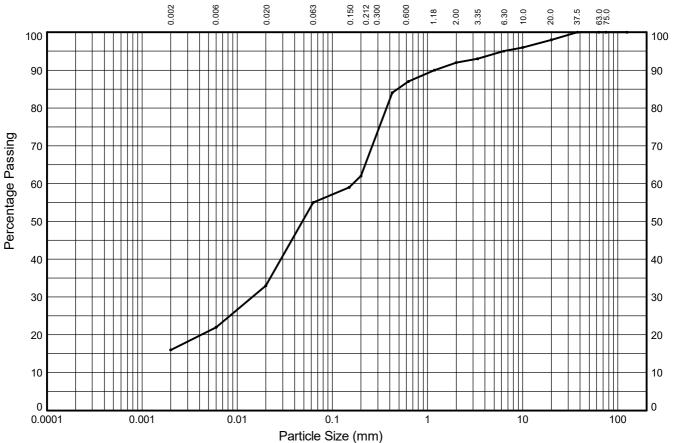
Contract

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: **B** 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%	16% 39%			37%			8%		0%		

T 10:	ь .ь .
Test Sieve	Percent Passing
(mm)	(%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	98
10.0	96
6.30	95
3.35	93
2.00	92
1.18	90
0.630	87
0.425	84
0.200	62
0.150	59
0.063	55

Particle Diameter (mm)	Percent Passing (%)				
0.02	33				
0.006	22				
0.002	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



STRUCTURAL SOILS
The Potteries
Pottery Street
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(Hestall)	
Ott	

LORNA WHITWORTH

Date **27/02/23**

Contract

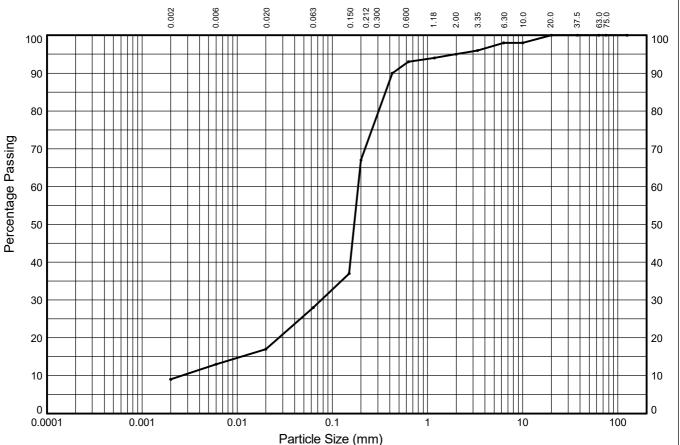
EMG Phase 2

Contract Ref: **765514**



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%			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 98 98 96 95 94 93 90 67 37 28

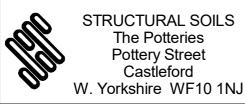
Particle Diameter (mm)	Percent Passing (%)			
0.02	17			
0.006	13			
0.002	9			
Sedimentation sample was not pre-treated				

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



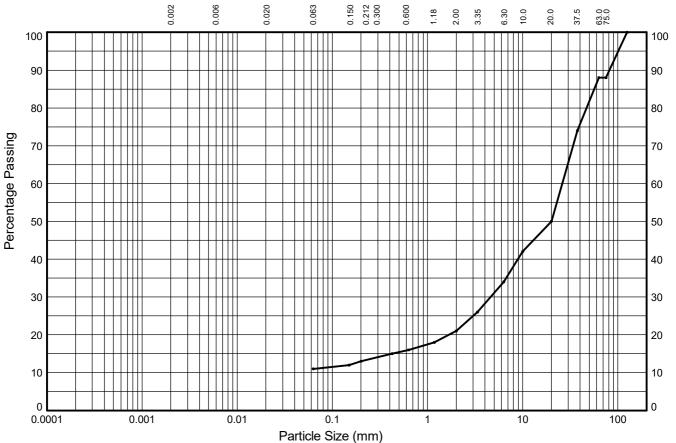
Compiled By		
whether	LAURA SCHRAMM	27/02/23
Contract	Contract Ref:	

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	Percent Passing
(mm)	(%)
(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 88 88 74 50 42 34 26 21 18 16 15 13
0.063	11

Particle Diameter (mm)	Percent Passing (%)
	sample was not eated
pie-ti	caica

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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The Potteries
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or Jehan	LAURA SCHRAMM
Contract	Contract Ref:

Contract Re

EMG Phase 2

765514

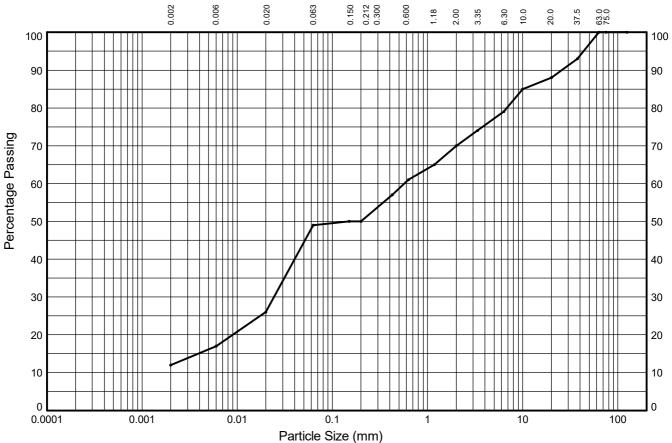


Date

27/02/23

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

Particle Diameter (mm)	Percent Passing (%)
0.02	26
0.006	17
0.002	12
Sedimentation s	
	·

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



STRUCTURAL SOILS
The Potteries
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Comp	iled By
(Mescalle)	
Contract	

LORNA WHITWORTH

Contract Ref:

Date **27/02/23**

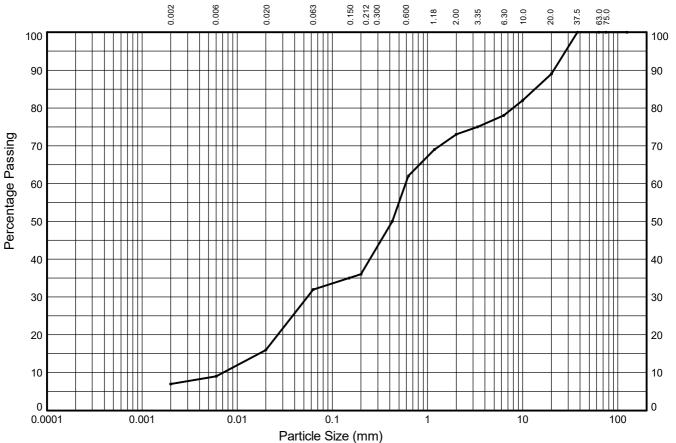
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EMG Phase 2



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					
0.002 Sedimentation	7 sample was not				

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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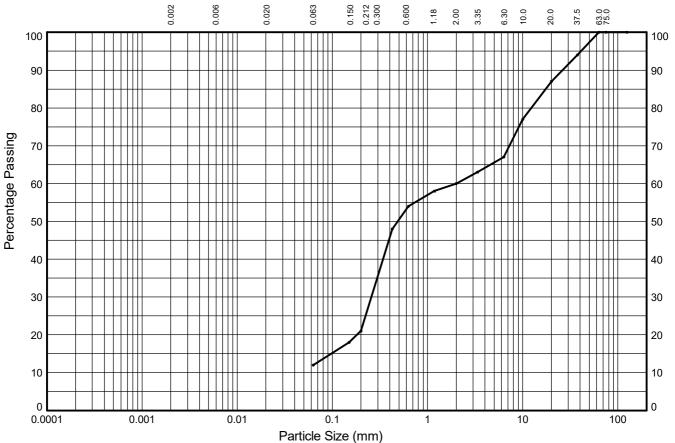
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EMG Phase 2



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	2%			48%				40%		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 94 87 77 67 63 60 58 54 48 21 18

(%)					
Sedimentation sample was not pre-treated					

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						

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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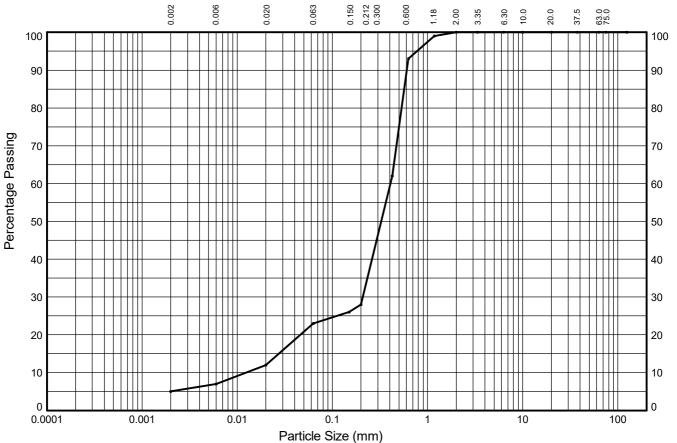
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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016 NON-STANDARD TEST

Borehole: BH15 Sample Ref: 24 Sample Type: B Depth (m): 6.00



I		fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
ı	CLAY	2%	5%	11%	5%	65%	7%	0%	0%	0%	COBBLES
		SILT		SAND		GRAVEL					
I	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					

0.012
0.012
0.027
0.209
0.326
0.407
0.569
0.606
33
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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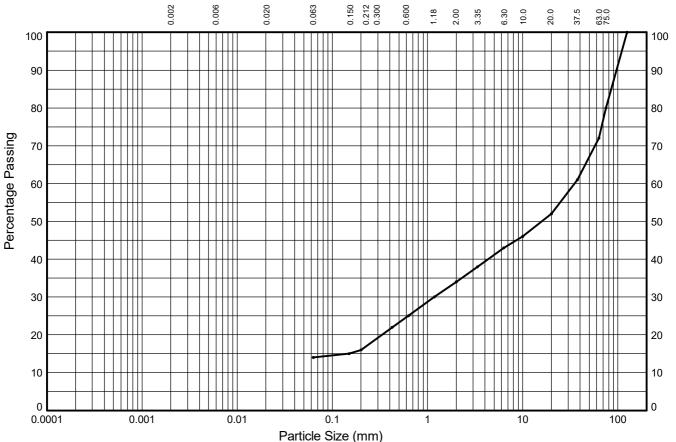
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EMG Phase 2



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	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 80 72 61 52 46 43 38 34 30 25 22 16 15

Particle Diameter (mm)	Percent Passing (%)
	sample was not eated

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				
	$\begin{array}{c} D_{10} \ (mm) \\ D_{15} \ (mm) \\ D_{30} \ (mm) \\ D_{50} \ (mm) \\ D_{60} \ (mm) \\ D_{85} \ (mm) \\ D_{90} \ (mm) \\ \end{array}$				

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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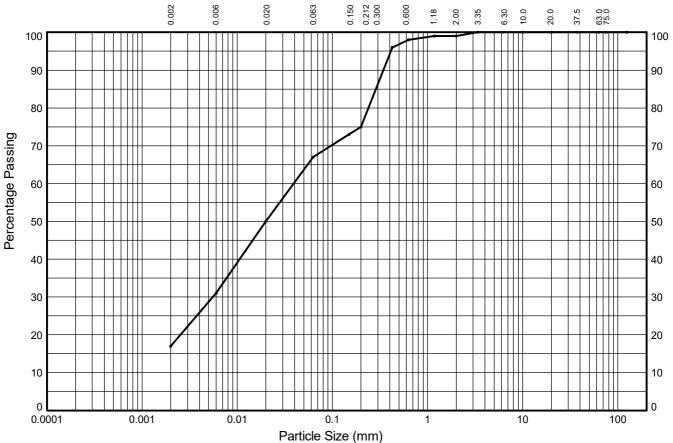
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EMG Phase 2 765514



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%

125.0 100 75.0 100 63.0 100 37.5 100 20.0 100 10.0 100 6.30 100 3.35 100 2.00 99 1.18 99 0.630 98 0.425 96 0.200 75 0.150 73	Test Sieve (mm)	Percent Passing (%)
0.063 67	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	100 100 100 100 100 100 100 99 99 98 96 75 73

Particle Diameter	Percent Passing			
(mm)	(%)			
0.02	50			
0.006	31			
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)	0.020				
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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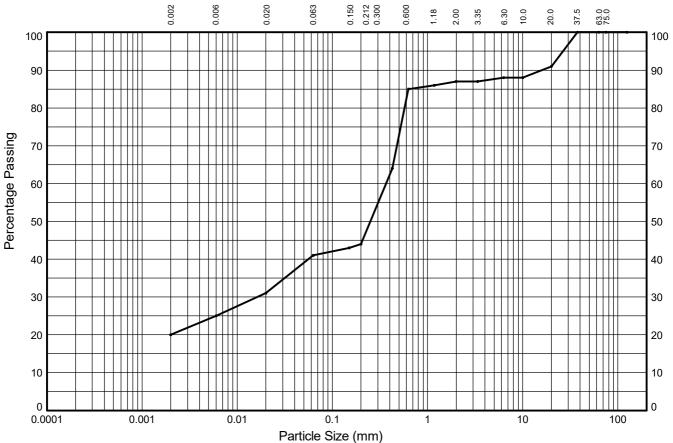
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EMG Phase 2



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	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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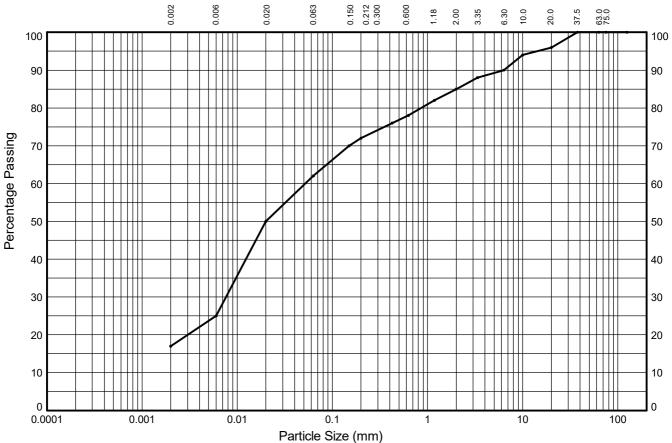
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EMG Phase 2



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	100
75.0	100
63.0	100
37.5	100
20.0	96
10.0	94
6.30	90
3.35	88
2.00	85
1.18	82
0.630	78
0.425	76
0.200	72
0.150	70
0.063	62

Particle Diameter (mm)	Percent Passing (%)				
0.02	50				
0.006	25				
0.002	17				
Sedimentation sample was not pre-treated					

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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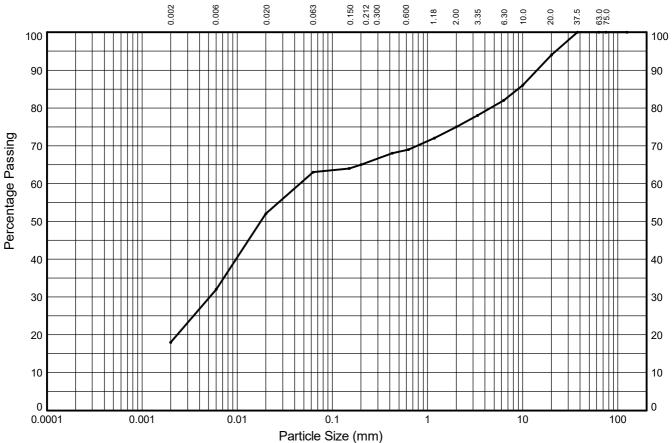
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EMG Phase 2



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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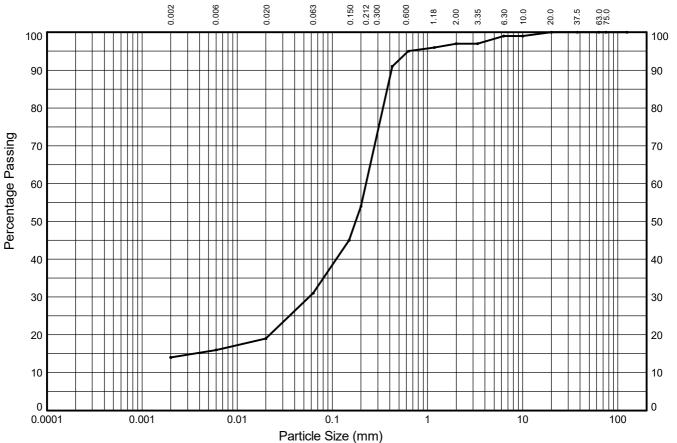
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016 NON-STANDARD TEST

Borehole: 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%	14% 17%		66%		3%			0%		

Test Sieve	Percent Passing
(mm)	(%)
125.0 75.0	100 100
63.0	100
37.5	100
20.0	100
10.0	99
6.30	99
3.35	97
2.00	97
1.18	96
0.630	95
0.425	91
0.200	54
0.150	45
0.063	31

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



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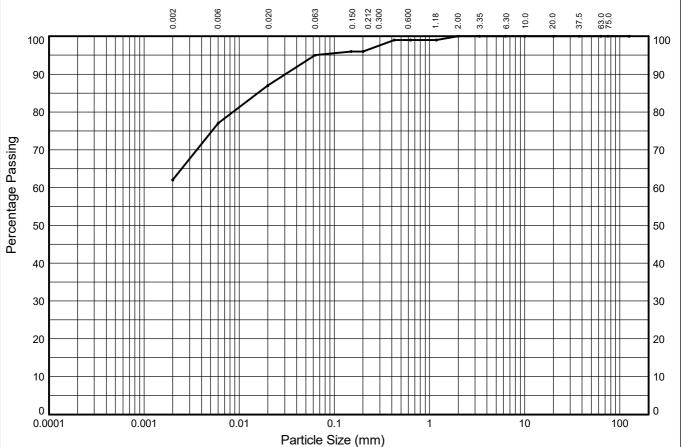
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Borehole: **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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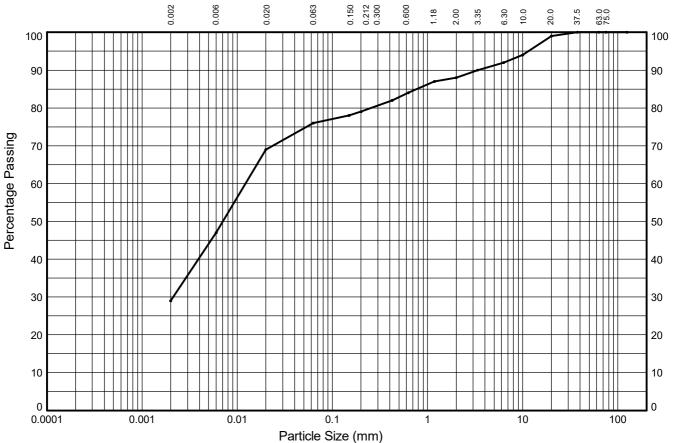
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EMG Phase 2



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

Particle Diameter (mm)	Percent Passing (%)
0.02	69
0.006	47
0.002	29
	sample was not eated

Coeffi	cients
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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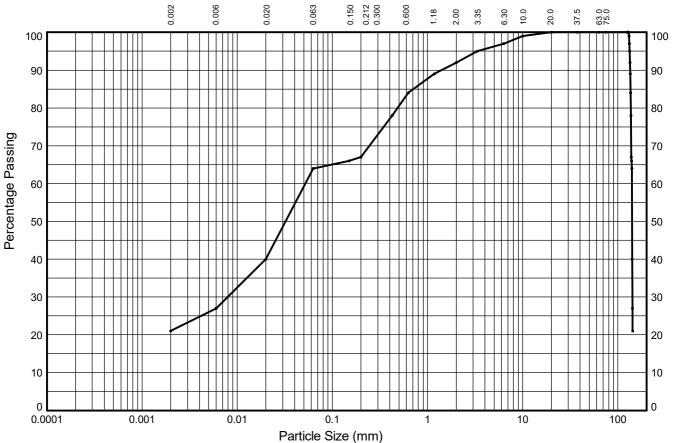
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: 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						
	·					

Coefficients						
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					

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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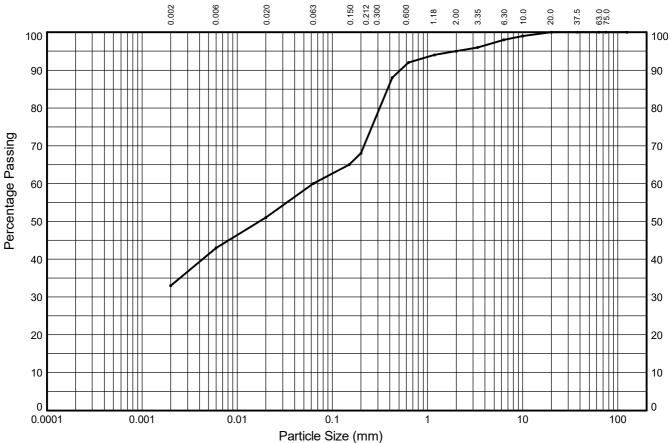
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EMG Phase 2



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%			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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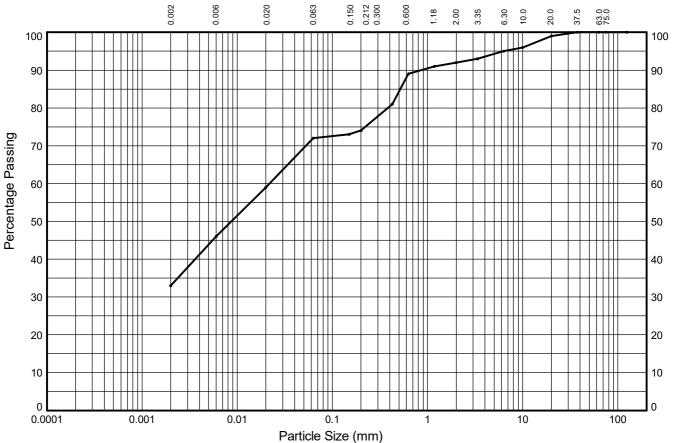
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EMG Phase 2



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 (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	99
10.0	96
6.30	95
3.35	93
2.00	92
1.18	91
0.630	89
0.425	81
0.200	74
0.150	73
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



STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Comp	iled By
(Hestelle)	
Contract	

LORNA WHITWORTH

Date 27/02/23

Contract

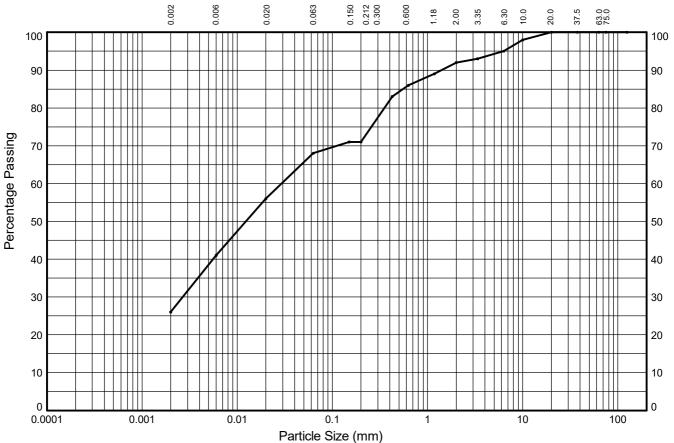
Contract Ref:

EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: 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
(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
0.063	68

Particle Diameter (mm)	Percent Passing (%)			
0.02	56			
0.006	41			
0.002	26			
Sedimentation sample was not pre-treated				

Coefficients					
NA					
NA					
0.003					
0.012					
0.029					
0.553					
1.407					
NA					
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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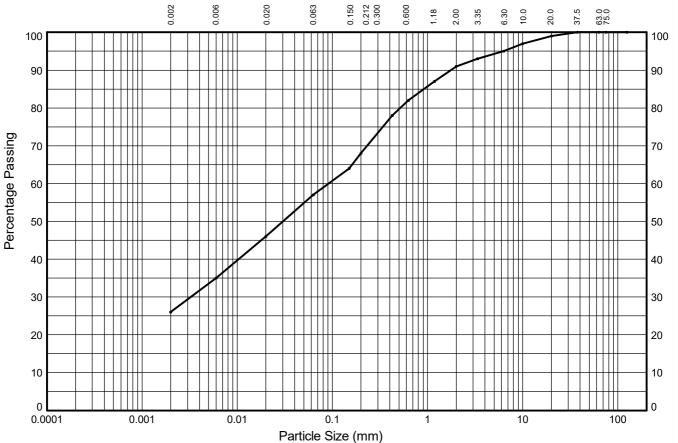
Contract Ref:

EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: 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%			34%			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	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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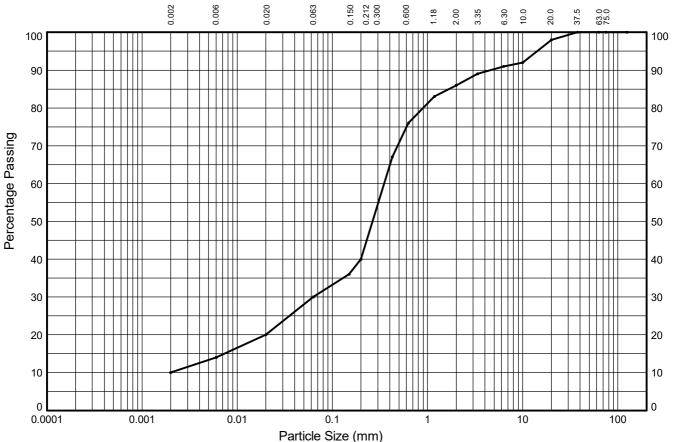
Contract Ref:

EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: 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	100 100 100 100 98 92 91 89 86 83 76 67 40 36

Percent Passing (%)
20
14
10
sample was not eated

Coeffi	icients
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



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Pottery Street
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(Hestell)	LORNA W
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LORNA WHITWORTH

Date **27/02/23**

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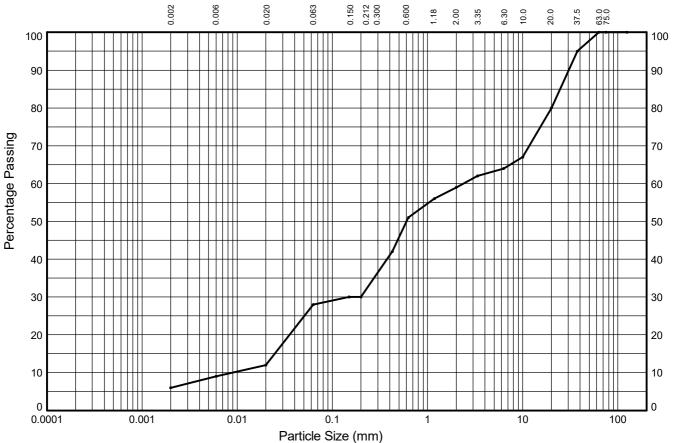
Contract Ref:

EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016 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%				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 80 67 64 62 59 56 51 42 30 30 28

Particle Diameter (mm)	Percent Passing (%)						
0.02	12						
0.006	9						
0.002	6						
Sedimentation sample was not pre-treated							

Coeffi	cients
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



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The Potteries
Pottery Street
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	arzelmo-		LAURA SCHRAMM	27/02/23
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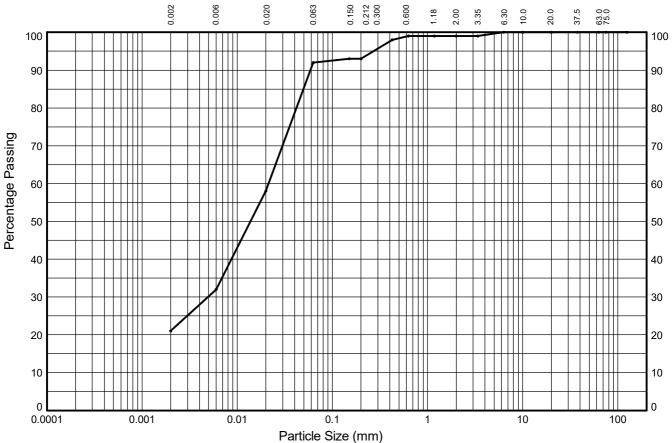
EMG Phase 2

765514

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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							
	<u> </u>						

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



STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Comp	iled By
(Mescello	
Ott	

LORNA WHITWORTH

Contract Ref:

Date 27/02/23

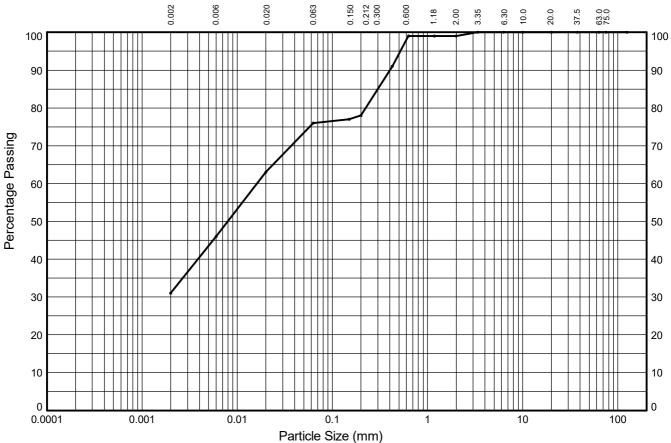
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

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%		23%		1%			0%		

125.0 100 75.0 100	Test Sieve (mm)	Percent Passing (%)
37.5 100 20.0 100 10.0 100 6.30 100 3.35 100 2.00 99 1.18 99 0.630 99 0.425 91 0.200 78 0.150 77 0.063 76	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	100 100 100 100 100 100 100 99 99 99 91 78 77

Particle Diameter	Percent Passing				
(mm)	(%)				
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



STRUCTURAL SOILS
The Potteries
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ar Jehan		LAURA SCHRAMM	27/02/23		
Contract	Contract Contract Ref:				

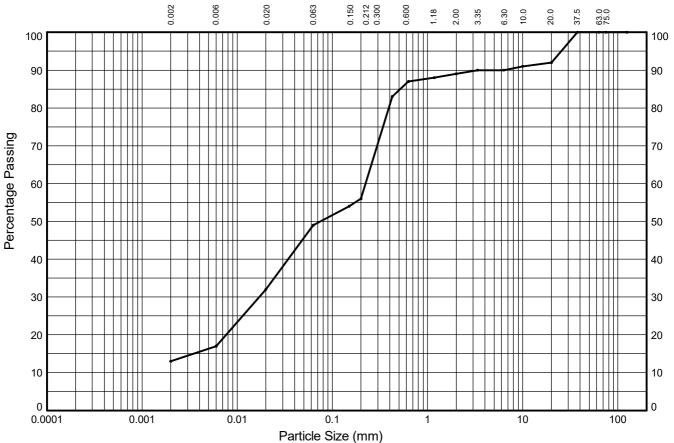
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP13 Sample Ref: 4 Sample Type: В 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%		40%		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 92 91 90 90 89 88 87 83 56 54

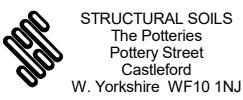
Particle Diameter (mm)	Percent Passing (%)					
0.02	32					
0.006	17					
0.002	13					
Sedimentation sample was not pre-treated						
	·					

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



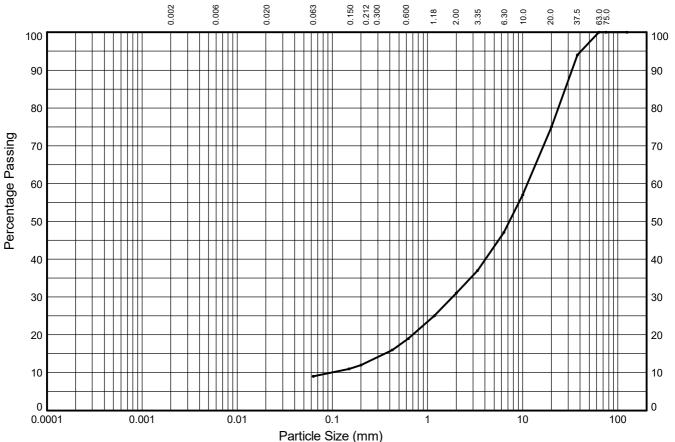
Compiled By			
Mescello	LORNA WHITWORTH	27/02/23	
Contract	Contract Ref:		

EMG Phase 2



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%	

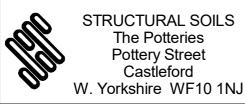
Test Sieve (mm)	Percent Passing (%)
125.0 75.0 63.0 37.5 20.0 10.0 6.30 3.35 2.00 1.18 0.630 0.425 0.200 0.150 0.063	100 100 94 75 57 47 37 31 25 19 16 12 11

$ \begin{array}{ c c c c }\hline \text{Particle Diameter} & \text{Percent Passing} \\ & & & & \\ \hline & & & & \\ \hline & & & & \\ \hline & & & &$		
D ₁₅ (mm) D ₃₀ (mm) D ₅₀ (mm) D ₆₀ (mm) D ₈₅ (mm) D ₉₀ (mm)		С
D ₃₀ (mm) D ₅₀ (mm) D ₆₀ (mm) D ₈₅ (mm) D ₉₀ (mm)		D ₁₀ (mm)
D ₅₀ (mm) D ₆₀ (mm) D ₈₅ (mm) D ₉₀ (mm)		D ₁₅ (mm)
D ₆₀ (mm) D ₈₅ (mm) D ₉₀ (mm)		D ₃₀ (mm)
D ₈₅ (mm) D ₉₀ (mm)		D ₅₀ (mm)
D ₉₀ (mm)		D ₆₀ (mm)
		D ₈₅ (mm)
		D ₉₀ (mm)
Sedimentation sample was not pre-treated CC		
		C _c

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



Compiled By			
whether	LAURA SCHRAMM	27/02/23	
Contract	Contract Ref:		

EMG Phase 2

765514

Coefficients

0.097 0.352

1.832

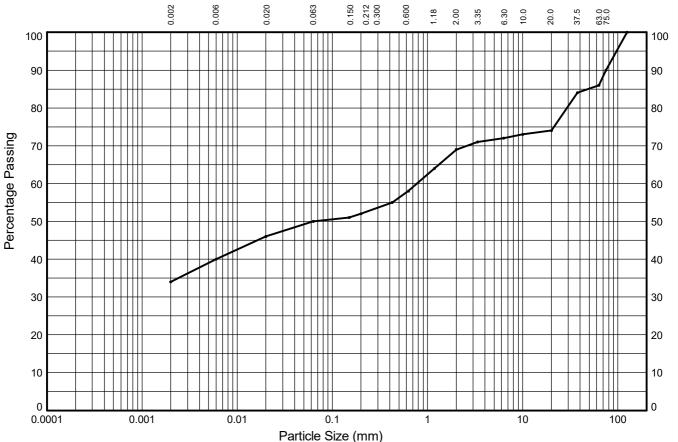
7.237 11.225

27.843

32.852

In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP14 Sample Ref: 18 Sample Type: 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						

Coeffi	cients
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



STRUCTURAL SOILS The Potteries **Pottery Street** Castleford W. Yorkshire WF10 1NJ

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Mescallo	LORNA WHITWORTH
Contract	Contract Ref:

EMG Phase 2

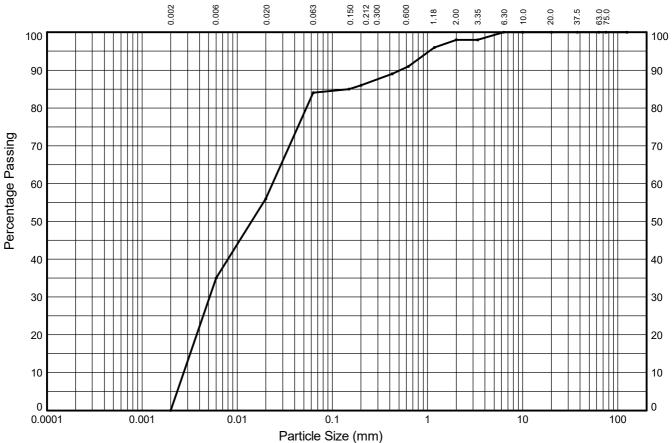
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In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

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	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 98 98 98 96 91 89 86 85 84

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



STRUCTURAL SOILS
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LORNA WHITWORTH

Date **27/02/23**

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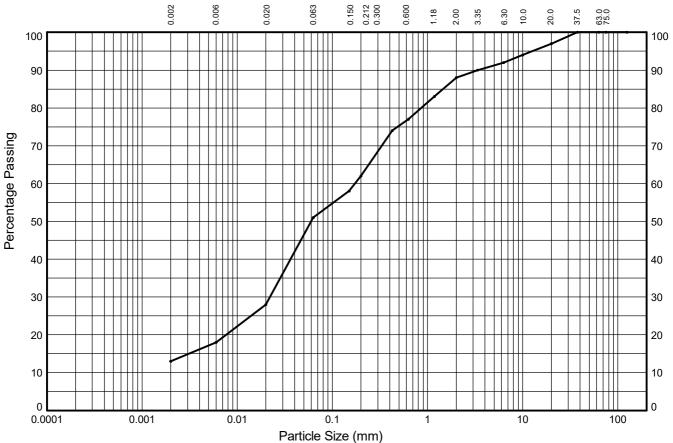
Contract Ref:

EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: 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%		37%		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 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



STRUCTURAL SOILS
The Potteries
Pottery Street
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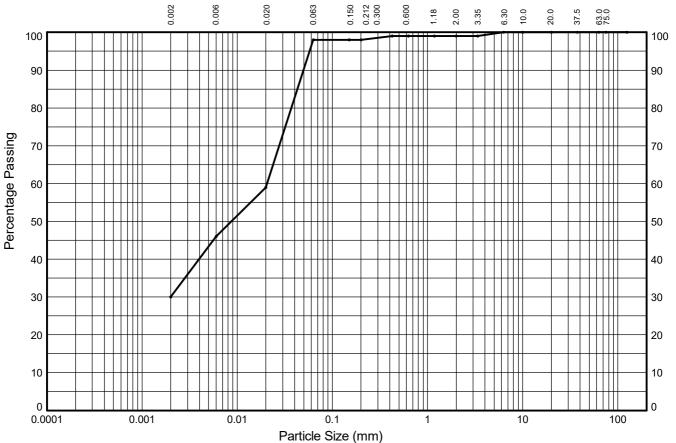
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Position ID: CP18 Sample Ref: 4 Sample Type: B 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%	30% 68%			1%			1%	_	0%	

Test Sieve	Percent Passing
(mm)	(%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	99
2.00	99
1.18	99
0.630	99
0.425	99
0.200	98
0.150	98
0.063	98

Particle Diameter (mm)	Percent Passing (%)					
0.02	59					
0.006	46					
0.002	30					
Sedimentation sample was not pre-treated						

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



STRUCTURAL SOILS
The Potteries
Pottery Street
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LORNA WHITWORTH

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Date **27/02/23**

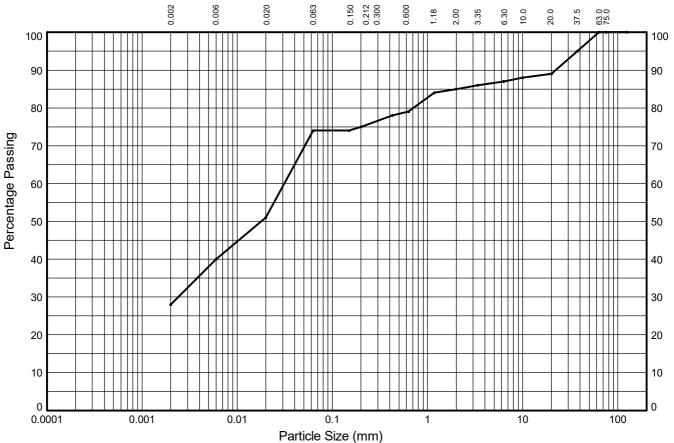
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

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 (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 95 89 88 87 86 85 84 79 78 75

Particle Diameter (mm)	Percent Passing (%)			
0.02	51			
0.006	40			
0.002	28			
Sedimentation sample was not pre-treated				

Coefficients				
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



STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Comp	iled By
(Hestelle)	
Contract	

LORNA WHITWORTH

Contract Ref:

Date **27/02/23**

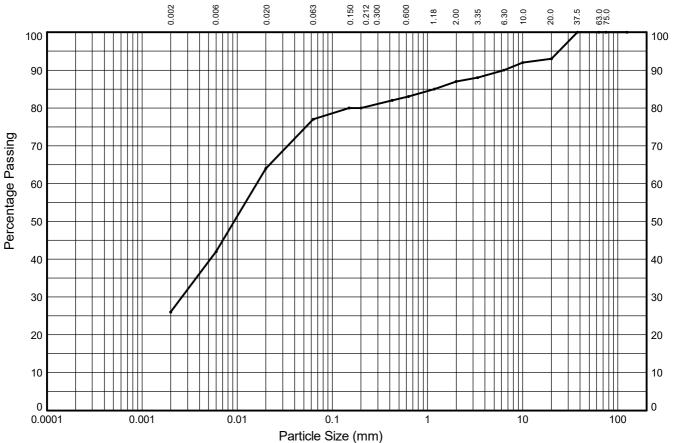
Contract

EMG Phase 2



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	Percent Passing
(111111)	(70)
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 93 92 90 88 87 85 83 82 80 80 77
0.003	
	(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

Particle Diameter (mm)	Percent Passing (%)			
0.02	64			
0.006	42			
0.002	26			
Sedimentation sample was not pre-treated				

Coefficients				
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



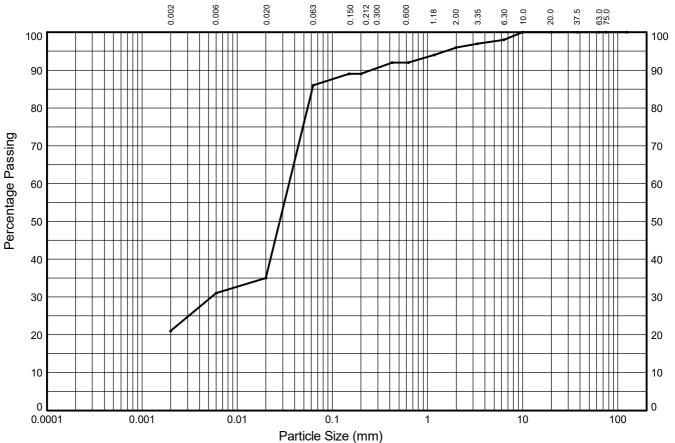
STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

	Compiled By		Date	
	arxelma-		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

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						
	(mm) 0.02 0.006 0.002 Sedimentation					

Coeffi	Coefficients						
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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The Potteries
Pottery Street
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W. Yorkshire WF10 1NJ

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Mestallo	
Contract	

LORNA WHITWORTH

Contract Ref:

Date **27/02/23**

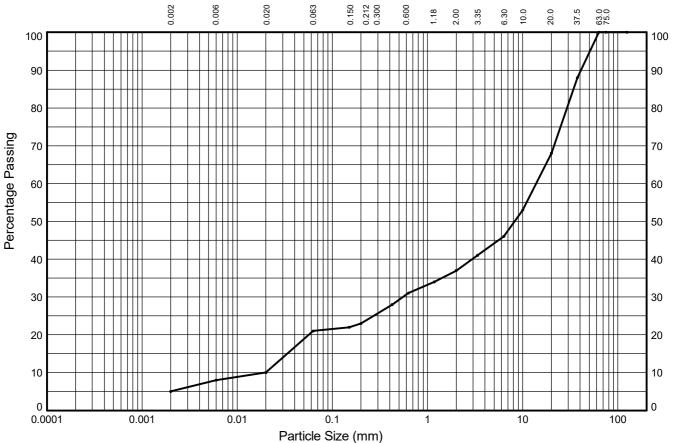
Contract

EMG Phase 2



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	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 88 68 53 46 41 37 34 31 28 23 22

Particle Diameter (mm)	Percent Passing (%)				
0.02	10				
0.006	8				
0.002	5				
Sedimentation sample was not pre-treated					

Coeffi	icients
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



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The Potteries
Pottery Street
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Compiled By				Date
	drychar		LAURA SCHRAMM	27/02/23
Contract			Contract Ref:	

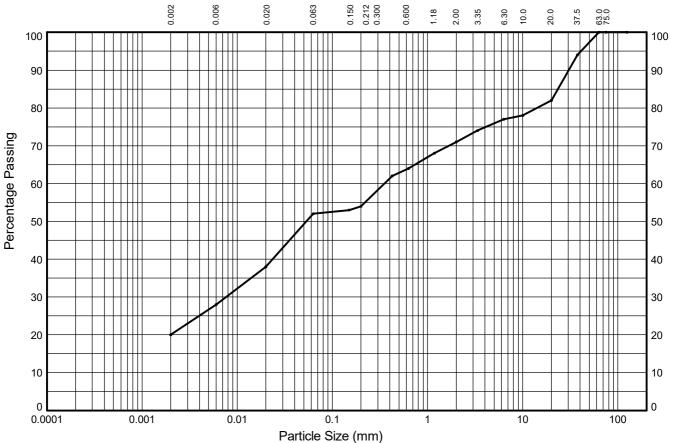
EMG Phase 2

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AGS

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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LORNA WHITWORTH

Date **27/02/23**

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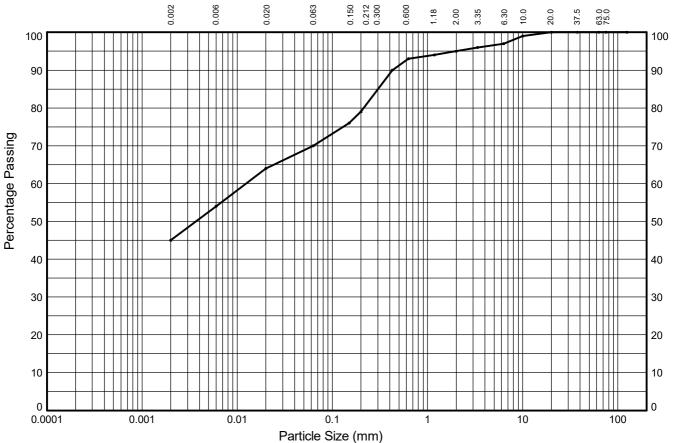
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Trial Pit: TP09 Sample Ref: 5 Sample Type: LB Depth (m): 0.60



I		fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	
ı	CLAY	9%	10%	6%	9%	14%	2%	2%	3%	0%	COBBLES
			SILT			SAND		(GRAVEL	_	
I	45%	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

Particle Diameter (mm)	Percent Passing (%)			
0.02	64			
0.006	54			
0.002	45			
Sedimentation sample was not pre-treated				

NA
NA
NA
0.004
0.012
0.302
0.425
NA
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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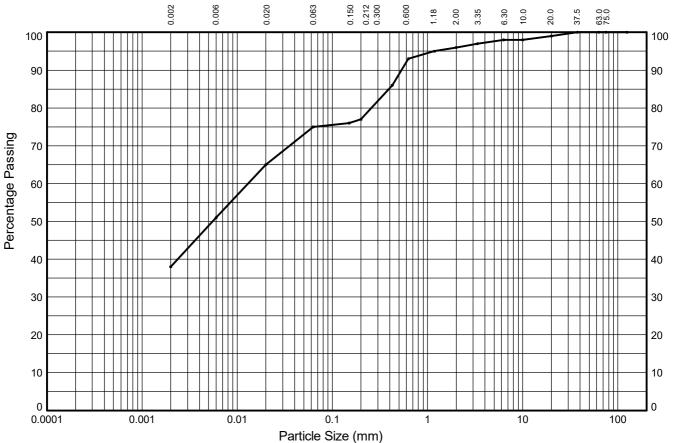
Compiled By			
de Lebrar	LAURA SCHRAMM	27/02/23	
Contract	Contract Ref:		

EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Trial Pit: TP10 Sample Ref: 11 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

Particle Diameter (mm)	Percent Passing (%)			
0.02	65			
0.006	51			
0.002	38			
Sedimentation sample was not pre-treated				

Coefficients					
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 _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



STRUCTURAL SOILS
The Potteries
Pottery Street
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LORNA WHITWORTH

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Date **27/02/23**

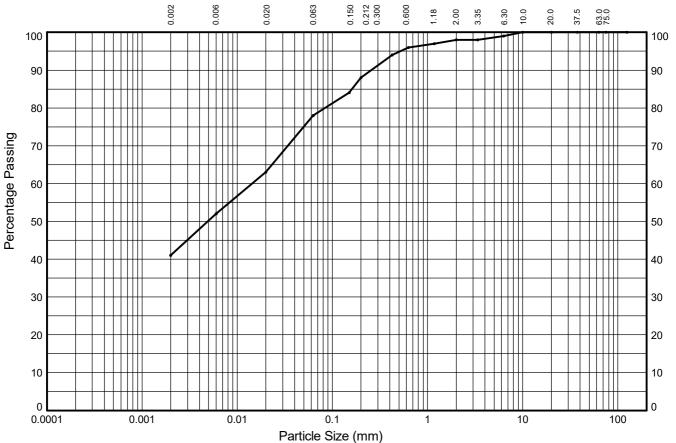
Contract

EMG Phase 2



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%		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 s	

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



STRUCTURAL SOILS
The Potteries
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Contract Ref:

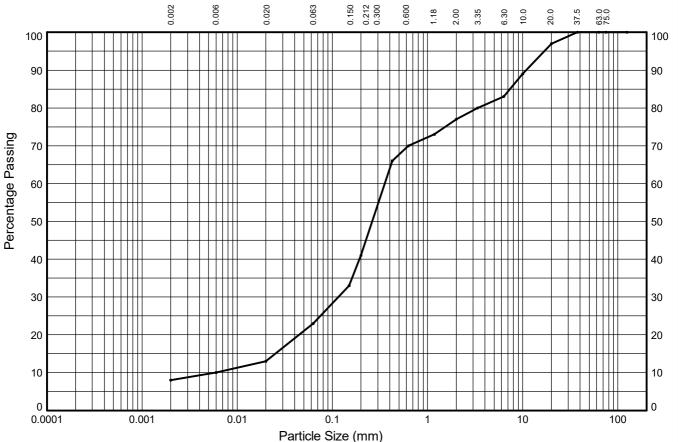
765514



Date

In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016 **NON-STANDARD TEST**

Trial Pit: TP13 Sample Ref: Sample Type: 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%			23%		0%		

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	97
10.0	89
6.30	83
3.35	80
2.00	77
1.18	73
0.630	70
0.425	66
0.200	41
0.150	33
0.063	23

Particle Diameter (mm)	Percent Passing (%)						
0.02	13						
0.006	10						
0.002	8						
Sedimentation sample was not pre-treated							

Coeffi	icients
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



STRUCTURAL SOILS The Potteries **Pottery Street** Castleford W. Yorkshire WF10 1NJ

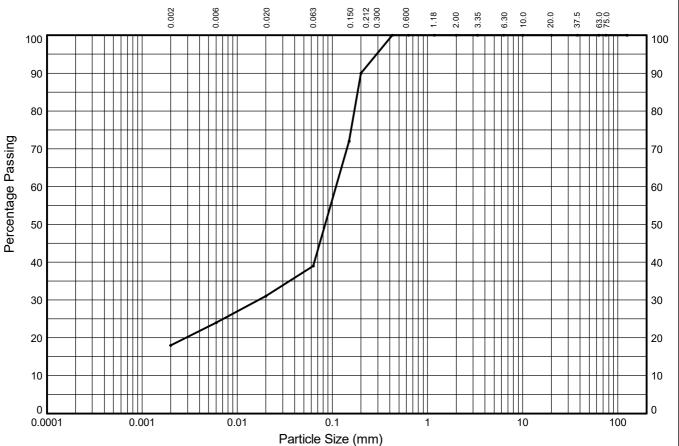
Compiled By						
LAURA SCHRAMM						
Contract	ontract Contract Ref:					

765514 **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: В 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	100
1	100
75.0	
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
3.35	100
2.00	100
1.18	100
0.630	100
0.030	100
00	
0.200	90
0.150	72
0.063	39
I	

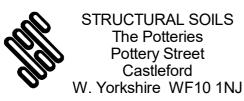
Percent Passing (%)					
31					
24					
18					
Sedimentation sample was not pre-treated					

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



Compiled By			
Mescello	LORNA WHITWORTH	27/02/23	
Contract	Contract Ref:		

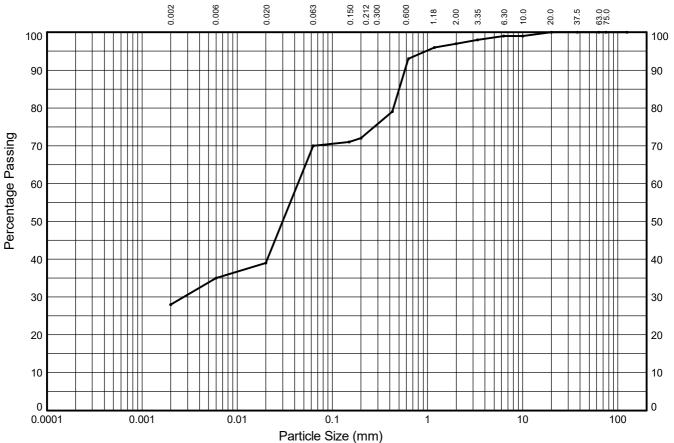
Contract Ref:

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

Darticle Diameter Descent Desci								
Particle Diameter	Percent Passing							
(mm)	(%)							
0.02	39							
3.02								
0.006	35							
0.000	55							
0.002	28							
0.002	20							
	Sedimentation sample was not							
pre-tr	pre-treated							

Coeff	Coefficients								
D ₁₀ (mm)	NA								
D ₁₅ (mm)	NA								
D ₃₀ (mm)	0.003								
D ₅₀ (mm)	0.030								
D ₆₀ (mm)	0.044 0.503								
D ₈₅ (mm)									
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



STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Comp	iled By
(Hestall)	
Combined	

LORNA WHITWORTH

Contract Ref:

Date **27/02/23**

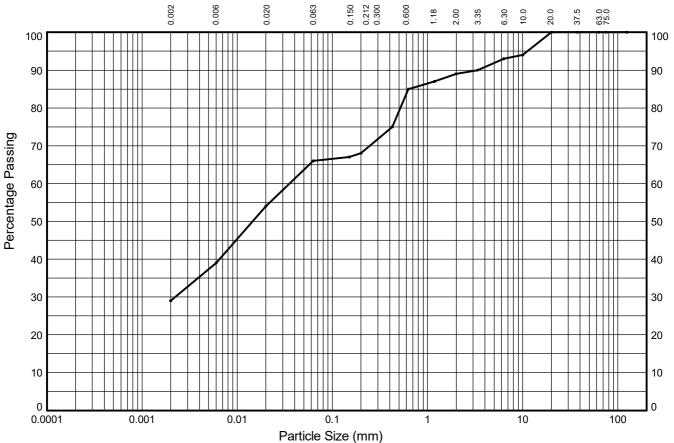
Contract

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			SAND			GRAVEL	_	
29% 37%			23%			11%		0%		

Test Sieve (mm)	Percent Passing (%)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	94
6.30	93
3.35	90
2.00	89
1.18	87
0.630	85
0.425	75
0.200	68
0.150	67
0.063	66

Particle Diameter (mm)	Percent Passing (%)				
0.02	54				
0.006	39				
0.002	29				
Sedimentation sample was not pre-treated					

Coeffi	cients
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



STRUCTURAL SOILS
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Pottery Street
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Mescallo	

LORNA WHITWORTH

Date 27/02/23

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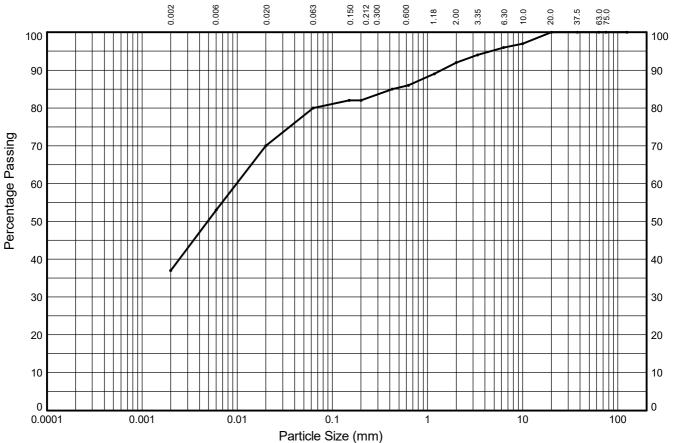
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

Trial Pit: **TP29** Sample Ref: **5** Sample Type: **D** 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 (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 97 96 94 92 89 86 85 82 82

Particle Diameter (mm)	Percent Passing (%)			
0.02	70			
0.006	53			
0.002	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



STRUCTURAL SOILS
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Date 27/02/23

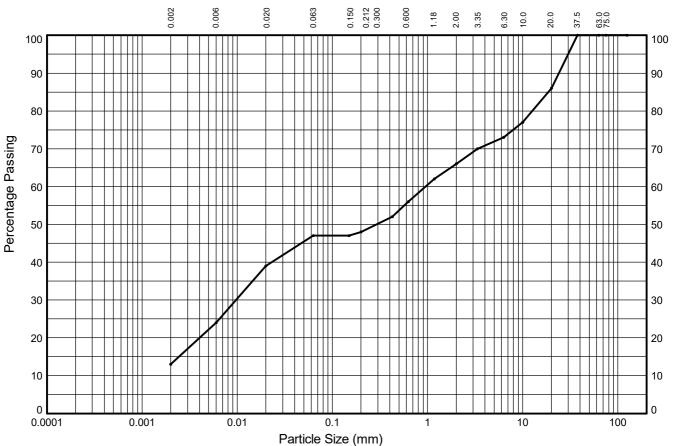
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EMG Phase 2



In accordance with clauses 5.2, 5.4 of BS EN ISO 17892:Part 4:2016

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%		34%			19%			34%		0%

Test Sieve	Percent Passing
(mm)	(%)
(111111)	(70)
125.0	100
75.0	100
63.0	100
37.5	100
20.0	86
10.0	77
6.30	73
3.35	70
2.00	66
1.18	62
0.630	56
0.425	52
0.200	48
0.150	47
0.063	47

Particle Diameter (mm)	Percent Passing (%)			
0.02	39			
0.006	24			
0.002	13			
Sedimentation sample was not pre-treated				

Coeffi	cients
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



STRUCTURAL SOILS
The Potteries
Pottery Street
Castleford
W. Yorkshire WF10 1NJ

Compiled By			Date	
LAURA SCHRAMM				27/02/23
Contract			Contract Ref:	

Contract Re

EMG Phase 2 765514





Aberdeen Birmingham Bristol Dundee Edinburgh Elgin Glasgow Inverness Leeds London Manchester Newcastle upon Tyne Sheffield Sevenoaks Taunton Watford

