

Technical Note - Infiltration Assessment

Project:	Stoke Road, Hinckley	Project Ref:	M224-138
Doc Ref:	M224-138 SRH-AJP-XX-XX-R-G-0001	Revision:	P01
Prepared by:	Chris Storey	Date:	16.12.25

1.0 Introduction

AJP Midlands Ltd (AJP) have undertaken an assessment of the ground conditions behalf of Vistry (client) to in relation to the potential for the use of infiltration/soakaways for the disposal of storm water at the proposed development at Stoke Road, Hinckley.

This report has been prepared for the client and their appointed agents only and should not be relied upon by any third party without the written permission of AJP. If any unauthorised third party comes into possession of this report, they rely on it at their own risk and the authors do not owe them any Duty of Care or Skill. It is based on and limited to an assessment of the information and ground conditions identified here.

The following reports have been used in the preparation of this technical note:

- Phase I Geo-Environmental Assessment, BWB, Report Ref HIN-BWB-ZZ-XX-RP-YE-0001_Ph1, dated January 2022.
- Phase II Ground Investigation Report, MEC, Report Ref 28047-GEO-0402 Rev A, dated November 2023.

2.0 Recorded Geology

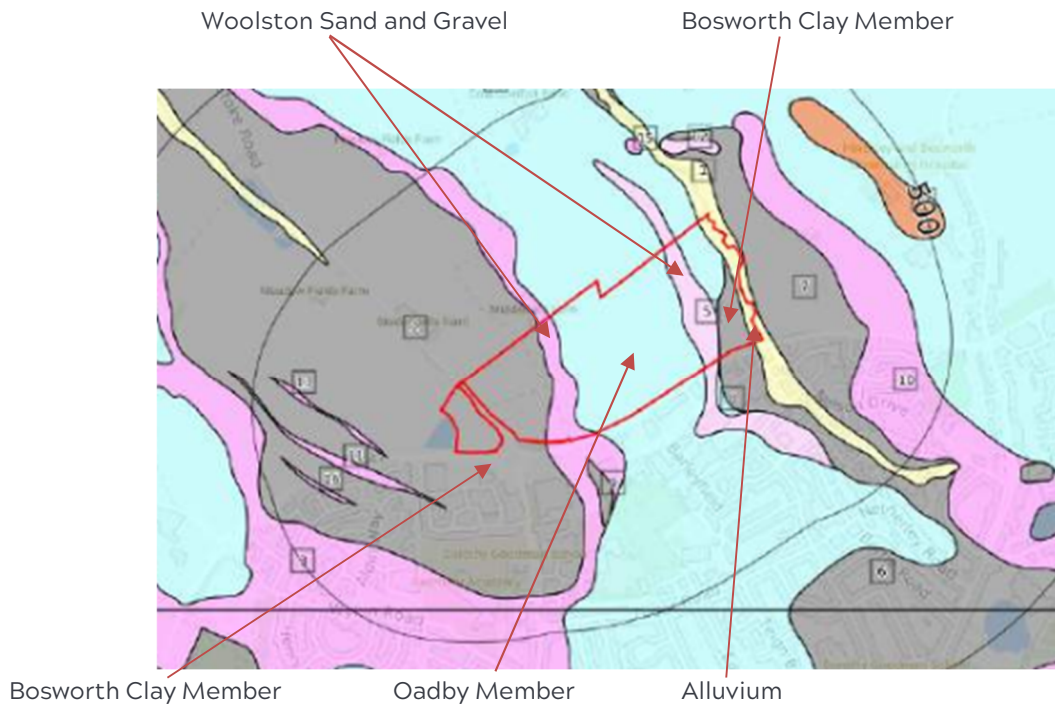
Information published by the BGS indicates that the site is directly underlain by the Bosworth Clay Member (clay and silt); Wolston Sand and Gravel; Oadby Member (Diamicton) and Alluvium (clay, silt, sand and gravel) superficial deposits, overlying Mercia Mudstone Group bedrock. Topsoil is present across the site.

The BGS Lexicon database describes the recorded superficial geology as the following:

- Wolston Sand and Gravel - sand and gravel, locally with lenses of silt, clay or peat.
- Oadby Member - diamicton (glacial till), grey, weathering brown, characterised by Cretaceous and Jurassic rock fragments; subordinate lenses of sand and gravel, clay and silt. Clay, brown to grey, and silty clay, with chalk and flint fragments.
- Bosworth Clay Member - clay and silt, glaciogenic in origin.

BGS borehole logs present 300m south of the site (SP49NW37) recorded 0.9m of Made Ground underlain by glacial deposits (stiff clay and fine to medium sand) to 4mbgl. BGS borehole (SP49NW25) present 50m south east of the site recorded 0.25m of topsoil underlain by a firm to stiff, brown and grey mottled clay with traces of vegetation, gravel and sand to 3mbgl. From 3mbgl to 10mbgl a stiff to very stiff, brown silty clay, with pockets of golden sand was recorded. A slight water seepage was recorded at 1.5mbgl.

The spatial distribution of the recorded superficial geology is illustrated below:



3.0 Encountered Ground Conditions

The ground investigation completed by MEC comprised the following:

- Eighteen dynamic windowless sampler borehole locations (WS01-WS18) to depths of up to 5.00m bgl.
- Twenty-four mechanically excavated trial pit locations (TP01-TP24) to depths of up to 3.50m bgl.
- Four boreholes advanced by cable percussive techniques to depths of up to 15.00m bgl.

The MEC exploratory hole location plan and logs are presented in Appendix A. The ground conditions revealed by the ground investigation works are summarised below.

Topsoil

Topsoil was encountered to an average depth of 0.30m bgl and generally comprised dark brown, silty, sandy, gravelly clay or slightly clayey, silty, slightly gravelly sand. The gravel comprised sub-angular to rounded, fine to coarse, chert, sandstone, and quartzite.

Made Ground

Reworked topsoil was encountered in eight locations (TP05, TP07, TP10, TP11, WS01, WS14, BH03 and BH04) and generally comprised topsoil as previously described with anthropogenic fragments including concrete, brick, tile, bituminous material, and pottery.

Made Ground was encountered around the disused farm area and comprised dark brown, slightly sandy, silty clay topsoil with gravel sized fragments of sub-angular to rounded, fine to coarse chert, sandstone, quartzite, tile and concrete and cobble sized fragments of brick, tile, and concrete. This material was encountered to depths of up to 0.90m bgl.

Localised Made Ground was encountered in WS01, BH03 and BH04 to depths between 0.75m and 1.90m bgl and generally comprised firm, brown, silty, sandy clay with gravel sized fragments of brick, ceramic, and charcoal. This material likely represents reworked natural cohesive material.

Bosworth Clay Member

Deposits of the Bosworth Clay Member were limited to the west (WS07-WS08, TP10-TP12, TP22 and BH01) and east (TP01 and WS01) and generally comprised firm, locally soft, very soft and firm to stiff, light brown and grey, slightly sandy, slightly gravelly silty clay with gravel comprising sub-angular to rounded, fine to coarse flint, sandstone, and quartzite. The Bosworth Clay Member was recorded to depths of up to 2.00m bgl but generally less than 1.00m bgl.

Woolston Sand and Gravel

The Woolston Sand and Gravel deposits were encountered across the eastern half of the site, typically interbedded with the Oadby Member deposits, and comprised medium dense, locally dense, reddish brown, silty, gravelly fine to coarse sand or sandy fine to coarse gravel. Gravel comprised fine to coarse, subrounded to rounded quartzite, chert, and flint.

Oadby Member

Strata of the Oadby Member were encountered underlying the Bosworth Clay Member and interbedded with the Woolston Sand and Gravel, and generally comprised firm and stiffer, locally soft and soft to firm, grey and brown, silty, sandy, slightly gravelly clay. Gravel comprised sub-angular to sub-rounded, fine to coarse sandstone, siltstone, chalk, and quartzite.

Localised soft and soft to firm materials were encountered within the Bosworth Clay and Oadby Member in areas in the west and to the north and south of the former farm to depths ranging between 1.60 and 2.50m bgl.

Groundwater

During the intrusive investigation, groundwater was encountered at depths of between 1.50m and 3.40m bgl, generally in the east of the site at locations close to the watercourse. Groundwater was also encountered within the exploratory locations advanced around the former farmyard area and the ponds in the north and south at depths of between 1.20m and 6.40m bgl.

A moderate inflow of groundwater was encountered within BH03, positioned close to the pond in the south, at a depth of 6.40m bgl and was recorded to rise to 4.00m bgl within 20 minutes. Groundwater was also encountered within BH02, positioned close to the pond in the north, at a depth of 1.70m bgl rising to 1.60m bgl after 20 minutes, indicating a slow ingress of water.

Groundwater entries within the trial pits were generally observed as slow seepages; however moderate and fast seepages were encountered in TP01 (2.50m bgl) and TP14 (2.50m bgl) respectively. Both locations were in the east of the site close to the watercourse. Where groundwater was encountered, the trial pit excavations became unstable.

The results of the post fieldwork groundwater monitoring are summarised below.

Location	Depth to Groundwater (m bgl)
WS01, WS10 and WS11 (close to eastern watercourse)	0.68-2.70
WS03 (close to southern pond)	4.21-4.70
WS16 (close to northern pond)	1.25-3.00
WS07	2.23-3.14
WS12	Dry
WS17	1.44-1.79

It should be noted that the groundwater monitoring was undertaken in September and October and may not represent the worst-case conditions and higher water levels may be encountered during winter months.

4.0 Soakaway Potential

Soakaway testing was not undertaken as part of the MEC investigation and the report indicates:

‘soakaways may locally be feasible within the predominantly granular Wolston Sand and Gravel Formation across parts of the two eastern fields, however, shallow groundwater has been encountered in the east which will dictate the viability of soakaways’

AJP have reviewed the logs and the locations where granular deposits are present are detailed below:

Location	Depth of Granular Strata (m bgl)	Depth to Groundwater (m bgl)
TP01	1.00 to >2.60	2.50
TP03	0.20 to 1.40 2.30 to >3.00	N/A
TP04	1.50 to 2.50	1.50
TP05	2.00 to 2.80	2.80
TP07	2.40 to >3.20	N/A
TP09	1.20 to 1.60	N/A
TP13	0.20 to >2.60	2.50
TP14	2.00 to >3.00	2.50
TP16	0.20 to 0.90 3.00 to >3.50	N/A
TP18	0.20 to 0.70	N/A
TP20	2.00 to >3.10	2.80
TP21	0.30 to 2.80	N/A
WS02	1.90 to 2.70	N/A
WS10	0.30 to 1.20	N/A
WS12	2.60 to >5.00	N/A
WS14	2.90 to 4.25	1.20
BH03	6.40 to >15.00	6.40

The above table does not include sand lenses <0.5m thick. The above locations are highlighted red on the MEC hole location plan presented in Appendix A.

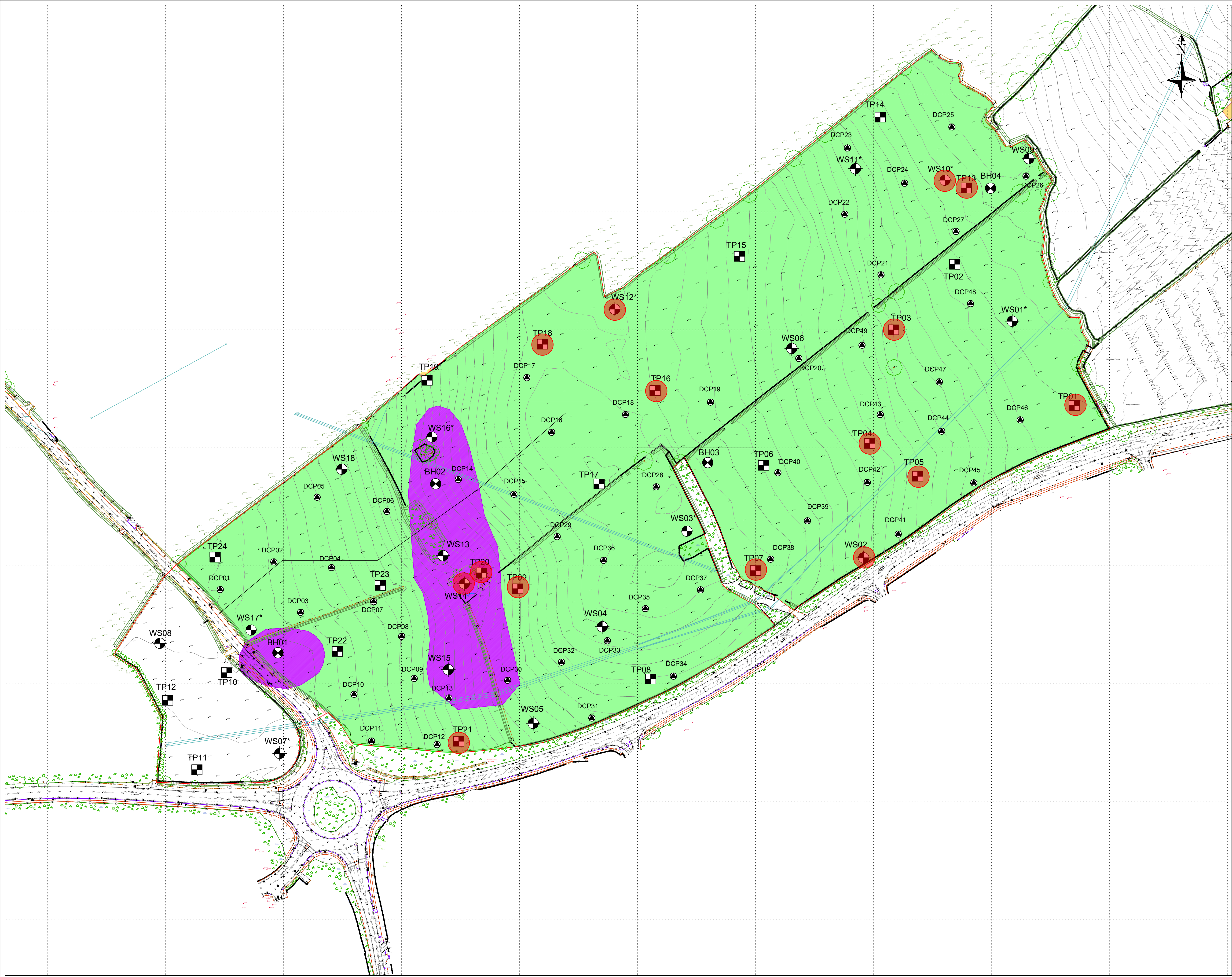
Whilst the ground investigation has recorded the presence of localised granular deposits, there is no discernible pattern as to their spatial distribution or depth across the site as such designing a scheme of soakaways is unachievable. The sand deposits occur as isolated pockets within impermeable cohesive strata, and it is considered that even if very localised soakaways were installed there would be an unacceptable risk of these pockets becoming fully saturated and non-viable in the long term, i.e. once a pocket became saturated soakaways would no longer be able to accept additional storm water leading to backing up of the system and surface water flooding during storm events. It should also be noted that at a number of locations the presence of shallow groundwater would also preclude the use of soakaways as there is likely to be insufficient unsaturated granular strata in which to drain storm water.

5.0 Conclusion

Based on the recorded ground conditions it is considered that the adoption of soakaways is not a viable solution for the disposal of storm water.

Appendix A

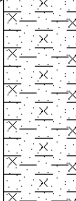
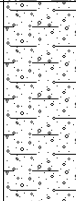
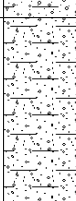
MEX Exploratory Hole Location Plan and Logs



- GENERAL NOTES**
- DO NOT SCALE THIS DRAWING.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS, ARCHITECTS AND SPECIALIST DESIGN DRAWINGS AND DETAILS.
 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - THIS DRAWING IS FOR STRATEGY PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.
- KEY**
- CABLE PERCUSSION BOREHOLE LOCATION
 - TRIAL PIT LOCATION
 - WINDOW SAMPLE LOCATION (*GROUND GAS MONITORING INSTALLATION)
 - DYNAMIC CONE PENETROMETER LOCATION
 - AREA SUITABLE FOR TRADITIONAL STRIP FOUNDATIONS AT 0.90M BGL WITHIN COHESIVE DEPOSITS (OUTSIDE TREE INFLUENCE) AND 0.75M BGL WITHIN GRANULAR DEPOSITS
 - AREA REQUIRING TRENCH FILL FOUNDATIONS TO DEPTHS OF UP TO 2.50M BGL OR A PILED FOUNDATION SOLUTION
 - APPROXIMATE SITE BOUNDARY

A	UPDATED WITH CABLE PERCUSSION BOREHOLES AND DCP LOCATIONS AND FOUNDATION ZONATION DETAILS		DW	CW	DT	27.11.23
REV	FIRST ISSUE		DW	CW	DT	15.09.23
REV	AMENDMENTS:		DRN	CHK	APP	DATE:
PROJECT: LAND NORTH OF NORMANDY WAY, HINCKLEY PHASE 1						
DRAWING TITLE: EXPLORATORY HOLE LOCATION PLAN AND FOUNDATION ZONING PLAN						
CLIENT: RICHBOROUGH ESTATES LTD						
DRAWING NUMBER: 28047_04_140_01						
REVISION: A		SHEET SIZE: A1		SCALE: 1:1,500		
STATUS: FOR INFORMATION / APPROVAL						
 Consulting Development Engineers				Telephone: 01530 284 753 Email: group@m-ec.co.uk Website: www.m-ec.co.uk ORDNANCE SURVEY © CROWN COPYRIGHT 2015. ALL RIGHTS RESERVED. LICENCE NUMBER 100055865		

File Location: S:\M-EC Job Book\28047\Drawings\04 series - environmental\28047_04_140_01 exploratory hole location plan.dwg
Printed: 27.11.2023

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		TP01 Sheet 1 of 1			
Project: Land North of Normandy Way		Project No. 28047	Start Date: 04/09/2023		End Date: 04/09/2023	Plant Used: 360 Excavator		
Location: Hinckley, Leicestershire		Logged By: JM	Easting and Northing Co-ordinates: 442470.37 295735.98			Elevation (m AOD): 111.11		
Client: Richborough Estates Ltd		Approved By: DT						
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)
					Type	Depth		
Crop stubble over dark brown, slightly sandy, slightly gravelly, silty clay TOPSOIL. Gravel comprises sub-angular to rounded, fine to coarse chert and quartzite. Firm, greyish brown, slightly sandy, silty CLAY. BOSWORTH CLAY MEMBER			0.25	110.86	ES	0.10	HSV=72kPa	
					D	0.70 0.80		
Orangish brown, slightly clayey, sandy, sub-rounded to rounded, fine to coarse GRAVEL with low cobble content. Gravels and cobbles comprise quartzite and flint. WOLSTON SAND AND GRAVEL DEPOSITS			1.00	110.11	D	1.00		
Orangish brown, clayey, slightly gravelly SAND. Gravel comprises sub-rounded to rounded, fine to coarse chert. WOLSTON SAND AND GRAVEL DEPOSITS			1.80	109.31				
Orangish brown, clayey, slightly gravelly SAND. Gravel comprises sub-rounded to rounded, fine to coarse chert. WOLSTON SAND AND GRAVEL DEPOSITS			2.60	108.51				
End of Trial Pit								

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		TP02 Sheet 1 of 1				
Project: Land North of Normandy Way		Project No. 28047	Start Date: 04/09/2023		End Date: 04/09/2023	Plant Used: 360 Excavator			
Location: Hinckley, Leicestershire		Logged By: JM	Easting and Northing Co-ordinates: 442368.99 295855.73			Elevation (m AOD): 111.13			
Client: Richborough Estates Ltd		Approved By: DT							
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)	
					Type	Depth			
Dark brown, slightly sandy, slightly gravelly, silty clay TOPSOIL. Gravel comprises sub-angular to rounded, fine to coarse chert and quartzite. Orangish brown, clayey, slightly gravelly SAND. Gravel comprises sub-rounded to rounded, fine to coarse chert. WOLSTON SAND AND GRAVEL DEPOSITS Firm, greyish brown, slightly sandy, silty CLAY. OADBY MEMBER			0.25	110.88	D		HSV=49kPa		
			0.40	110.73					
						0.80			
						1.00			
						1.20			
End of Trial Pit					D		HSV=65.3kPa		
						1.50			
						2.00			
							HSV=58.3kPa		
			3.00	108.13					
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.			Dimensions: Length: 2.50m Width: 0.50m Depth: 3.00m			Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading			
Stability: Stable									



B - Bulk Sample
D - Disturbed Sample
ES - Environmental Sample
W - Water Sample
PID - PID Reading
HSV - Hand Shear Vane Reading



Sheet 1 of 1

Plant Used:
360 Excavator

Elevation (m AOD):	
--------------------	--

115.62

Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. A slow ingress of groundwater was encountered from 1.50m to 2.50m bgl. Visual or olfactory evidence of contamination was not observed. Hole collapsing in from the sides. Stability: Unstable	Dimensions: Width: 0.50m Length: 2.50m Depth: 3.10m	Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading
--	--	--

Project:	Land North of Normandy Way	Project No. 28047	Start Date: 04/09/2023	End Date: 04/09/2023	Plant Used:
Location:	Hinckley, Leicestershire	Logged By: JM			360 Excavator
Client:	Richborough Estates Ltd	Approved By: DT	Easting and Northing Co-ordinates: 442337.54 295676.00		Elevation (m AOD): 114.60

Strata Description	Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)		
				Type	Depth				
MADE GROUND: Dark brown, slightly sandy, silty clay topsoil with gravel sized fragments of sub-angular to rounded, fine to coarse chert, quartzite, rare tile and brick.		0.30	114.30	ES	0.20	HSV=49.3kPa			
Soft to firm, becoming firm, greyish brown, slightly sandy, silty CLAY. OADBY MEMBER									
<i>Black decaying wood fragments from 0.60m-0.80m bgl.</i>									
				D	0.80			HSV=49.3kPa	
					1.00				
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									

Remarks:

Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator.
Descriptions based on visual inspection by a Geo-environmental engineer.
An ingress of groundwater was encountered at 2.80m bgl.
Visual or olfactory evidence of contamination was not observed.

Stability: Stable

Dimensions:

Length:
2.50m

Width:
0.50m

Depth:
3.20m

Key:

B - Bulk Sample
D - Disturbed Sample
ES - Environmental Sample
W - Water Sample
PID - PID Reading
HSV - Hand Shear Vane Reading

Project:	Land North of Normandy Way	Project No. 28047	Start Date: 04/09/2023	End Date: 04/09/2023	Plant Used:
Location:	Hinckley, Leicestershire	Logged By: JM			360 Excavator
Client:	Richborough Estates Ltd	Approved By: DT	Easting and Northing Co-ordinates: 442206.91 295685.29		Elevation (m AOD): 118.47

Strata Description	Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)
				Type	Depth		
Dark brown, slightly sandy, slightly gravelly, silty clay TOPSOIL. Gravel comprises sub-angular to rounded, fine to coarse chert, sandstone and quartzite.		0.30	118.17				
Firm to stiff, greyish brown, slightly sandy, gravelly, silty CLAY. Gravel comprises sub-angular to rounded, fine to coarse, quartzite, sandstone and siltstone. OADBY MEMBER				ES	0.50		
				D	0.90		
End of Trial Pit		3.20	115.27				

Remarks:

Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator.
Descriptions based on visual inspection by a Geo-environmental engineer.
Groundwater was not encountered.
Co-ordinates and elevations estimated from the topographical survey.

Stability: Stable

Dimensions:

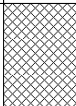
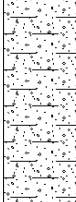
Length:
2.50m

Width:
0.50m

Depth:
3.20m

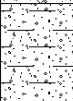
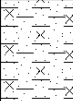
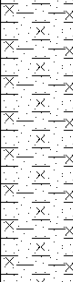
Key:

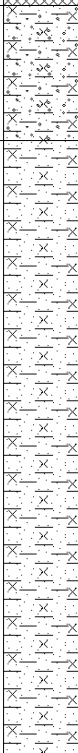
B - Bulk Sample
D - Disturbed Sample
ES - Environmental Sample
W - Water Sample
PID - PID Reading
HSV - Hand Shear Vane Reading

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		TP07 Sheet 1 of 1			
Project: Land North of Normandy Way		Project No. 28047	Start Date: 04/09/2023		End Date: 04/09/2023	Plant Used: 360 Excavator		
Location: Hinckley, Leicestershire		Logged By: JM	Easting and Northing Co-ordinates: 442200.12 295596.00			Elevation (m AOD): 119.70		
Client: Richborough Estates Ltd		Approved By: DT						
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)
					Type	Depth		
MADE GROUND: Dark brown, slightly sandy, silty clay topsoil with gravel sized fragments of sub-angular to rounded, fine to coarse chert, sandstone, quartzite, and rare bituminous material.			0.40	119.30	ES	0.30		
Firm, brown, slightly sandy, gravelly, silty CLAY. Gravel comprises sub-angular to rounded, fine to coarse quartzite and sandstone. OADBY MEMBER								
Light brown, slightly clayey, gravelly SAND. Gravel comprises sub-angular to rounded, fine to coarse sandstone, chert and quartzite. WOLSTON SAND AND GRAVEL DEPOSITS			2.40	117.30	D	3.00		
End of Trial Pit								
			3.20	116.50				
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.					Dimensions: Length: 2.50m Width: 0.50m Depth: 3.20m		Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading	
Stability: Stable								



Stability: Stable

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		TP09 Sheet 1 of 1			
Project: Land North of Normandy Way		Project No. 28047	Start Date: 04/09/2023		End Date: 04/09/2023	Plant Used: 360 Excavator		
Location: Hinckley, Leicestershire		Logged By: JM	Easting and Northing Co-ordinates: 441998.41 295580.68			Elevation (m AOD): 116.84		
Client: Richborough Estates Ltd		Approved By: DT						
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)
					Type Depth			
Dark brown, slightly sandy, slightly gravelly, silty clay TOPSOIL. Gravel comprises sub-angular to rounded, fine to coarse sandstone and quartzite.			0.30	116.54	ES 0.10		HSV=79.6kPa	
Firm, brown, sandy, slightly gravelly, silty CLAY. Gravel comprises sub-rounded to rounded, fine to coarse quartzite, chert and sandstone. OADBY MEMBER					D 0.70			
			1.20	115.64	D 1.00			
Orangish brown, clayey, slightly gravelly SAND. Gravel comprises sub-rounded to rounded, fine to coarse quartzite and sandstone. WOLSTON SAND AND GRAVEL DEPOSITS			1.60	115.24				
Firm, greyish brown, slightly sandy, silty CLAY. OADBY MEMBER					2.00			
End of Trial Pit			3.10	113.74				
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.					Dimensions: Length: 2.50m Width: 0.50m Depth: 3.10m		Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading	
Stability: Stable								

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		TP10 Sheet 1 of 1			
Project: Land North of Normandy Way		Project No. 28047	Start Date: 04/09/2023		End Date: 04/09/2023	Plant Used: 360 Excavator		
Location: Hinckley, Leicestershire		Logged By: JM	Easting and Northing Co-ordinates: 441751.78 295509.53			Elevation (m AOD): 107.16		
Client: Richborough Estates Ltd		Approved By: DT						
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)
					Type	Depth		
MADE GROUND: Dark brown, slightly sandy, silty clay topsoil with gravel sized fragments of sub-angular to rounded, fine to coarse chert, sandstone, quartzite, rare tile and pottery.			0.30	106.86	ES	0.20		
Firm, greyish brown, slightly sandy, slightly gravelly, silty CLAY. Gravel comprises sub-angular to rounded, fine to coarse sandstone and quartzite. BOSWORTH CLAY MEMBER								
Firm, brownish grey, slightly sandy, silty CLAY. OADBY MEMBER			0.80	106.36	D	0.90 1.00	HSV=78kPa	
					D	1.20		
						1.50	HSV=84.6kPa	
						2.00	HSV=91.3kPa	
End of Trial Pit			3.10	104.06				
								</

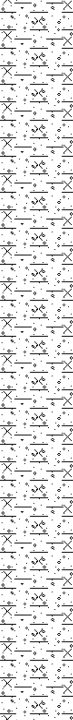
---	--	--

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		TP12 Sheet 1 of 1			
Project: Land North of Normandy Way		Project No. 28047	Start Date: 04/09/2023		End Date: 04/09/2023	Plant Used: 360 Excavator		
Location: Hinckley, Leicestershire		Logged By: JM	Easting and Northing Co-ordinates: 441701.75 295486.14			Elevation (m AOD): 107.47		
Client: Richborough Estates Ltd		Approved By: DT						
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)
					Type	Depth		
Dark brown, slightly sandy, slightly gravelly, silty clay TOPSOIL. Gravel comprises sub-angular to rounded, fine to coarse sandstone and quartzite.			0.20	107.27	D	0.70 0.80	HSV=73.3kPa	
Firm, brown, slightly sandy, gravelly, silty CLAY. Gravel comprises sub-angular to rounded, fine to coarse quartzite and sandstone.			0.50	106.97				
BOSWORTH CLAY MEMBER								
Firm to stiff, greyish brown, slightly sandy, silty CLAY. OADBY MEMBER								
Pockets of orangish brown, clayey SAND at 1.80m bgl.								

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		TP13 Sheet 1 of 1			
Project: Land North of Normandy Way		Project No. 28047	Start Date: 05/09/2023		End Date: 05/09/2023	Plant Used: 360 Excavator		
Location: Hinckley, Leicestershire		Logged By: JM	Easting and Northing Co-ordinates: 442378.80 295920.42			Elevation (m AOD): 110.38		
Client: Richborough Estates Ltd		Approved By: DT						
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)
					Type	Depth		
Dark brown, slightly sandy, slightly gravelly, silty clay TOPSOIL. Gravel comprises sub-angular to rounded, fine to coarse chert and quartzite. Orangish brown, slightly clayey, gravelly SAND. Gravel comprises sub-angular to rounded, fine to coarse sandstone and quartzite. WOLSTON SAND AND GRAVEL DEPOSITS			0.20	110.18	ES	0.30		
Becoming wet from 1.50m bgl.								
End of Trial Pit			2.60	107.78				2.50 
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. An ingress of groundwater was encountered at 2.50m bgl. Visual or olfactory evidence of contamination was not observed. Side walls collapsing. Stability: Unstable								
Dimensions: Width: 0.50m Length: 2.50m Depth: 2.60m					Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading			



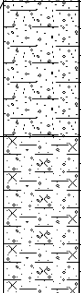
B - Bulk Sample
D - Disturbed Sample
ES - Environmental Sample
W - Water Sample
PID - PID Reading
HSV - Hand Shear Vane Reading

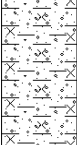
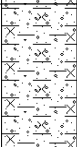
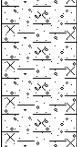
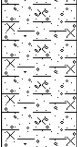
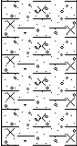
 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		TP15 Sheet 1 of 1				
Project: Land North of Normandy Way		Project No. 28047	Start Date: 05/09/2023		End Date: 05/09/2023	Plant Used: 360 Excavator			
Location: Hinckley, Leicestershire		Logged By: JM	Easting and Northing Co-ordinates: 442186.48 295862.47			Elevation (m AOD): 118.32			
Client: Richborough Estates Ltd		Approved By: DT							
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)	
					Type		Depth		
Grass over dark brown, slightly sandy, slightly gravelly, silty clay TOPSOIL. Gravel comprises sub-angular to rounded, fine to coarse quartzite, chert and sandstone.			0.30	118.02					
Firm to stiff, orangish brown, slightly sandy, slightly gravelly, silty CLAY. Gravel comprises sub-angular to rounded, fine to coarse quartzite, chert, sandstone, rare coal and chalk. Rare angular cobbles of chert. OADBY MEMBER					D		0.50	HSV=84.6kPa	
					D		0.70		
							1.00	HSV=88kPa	
							1.00		
Becoming stiff from 2.00m bgl.							2.00	HSV=125.3kPa	
End of Trial Pit			3.00	115.32					
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.					Dimensions: Length: 2.50m Width: 0.50m Depth: 3.00m		Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading		
Stability: Stable									

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		TP16 Sheet 1 of 1			
Project: Land North of Normandy Way		Project No. 28047	Start Date: 05/09/2023		End Date: 05/09/2023	Plant Used: 360 Excavator		
Location: Hinckley, Leicestershire		Logged By: JM	Easting and Northing Co-ordinates: 442114.93 295748.69			Elevation (m AOD): 120.02		
Client: Richborough Estates Ltd		Approved By: DT						
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)
					Type	Depth		
Grass over dark brown, slightly sandy, slightly gravelly, silty clay TOPSOIL. Gravel comprises sub-angular to rounded, fine to coarse quartzite, chert and sandstone. Orangish brown, slightly clayey, gravelly SAND. Gravel comprises sub-angular to rounded, fine to coarse sandstone and quartzite. OADBY MEMBER			0.20	119.82	ES	0.50 0.60		
Firm, orangish brown and reddish brown, sandy, slightly gravelly, silty CLAY. Gravel comprises sub-angular to rounded, fine to coarse chert, quartzite, rare coal, chalk and sandstone. OADBY MEMBER			0.90	119.12	D	1.00 1.50 2.00	HSV=54.3kPa HSV=70kPa	
Reddish brown, clayey, slightly gravelly SAND. Gravel comprises sub-angular to sub-rounded, fine to medium quartzite and sandstone. WOLSTON SAND AND GRAVEL DEPOSITS			3.00	117.02				
End of Trial Pit			3.50	116.52				
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.					Dimensions: Length: 2.50m Width: 0.50m Depth: 3.50m		Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading	
Stability: Stable								



Stability: Stable

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		TP18 Sheet 1 of 1				
Project: Land North of Normandy Way		Project No. 28047	Start Date: 05/09/2023		End Date: 05/09/2023	Plant Used: 360 Excavator			
Location: Hinckley, Leicestershire		Logged By: JM	Easting and Northing Co-ordinates: 442019.48 295787.94			Elevation (m AOD): 120.40			
Client: Richborough Estates Ltd		Approved By: DT							
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)	
					Type	Depth			
Grass over dark brown, sandy, slightly gravelly, silty clay TOPSOIL. Gravel comprises sub-angular to rounded, fine to coarse quartzite, chert and sandstone. Orangish brown, slightly clayey, gravelly SAND. Gravel comprises sub-angular to rounded, fine to coarse sandstone, chert and quartzite. OADBY MEMBER		 	0.20	120.20			HSV=81.3kPa		
Firm, brown, slightly sandy, slightly gravelly, silty CLAY. Gravel comprises sub-angular to sub-rounded, fine to coarse sandstone, coal and quartzite. OADBY MEMBER			0.70	119.70	D	0.80			
					D	1.00 1.00			
Lens of greyish brown, clayey SAND from 1.30m -1.80m bgl.									
						2.00			HSV=74.6kPa
						2.50			HSV=86kPa
End of Trial Pit			3.00	117.40					

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		TP19 Sheet 1 of 1			
Project: Land North of Normandy Way		Project No. 28047	Start Date: 05/09/2023		End Date: 05/09/2023	Plant Used: 360 Excavator		
Location: Hinckley, Leicestershire		Logged By: JM	Easting and Northing Co-ordinates:			Elevation (m AOD):		
Client: Richborough Estates Ltd		Approved By: DT	441921.60		295757.37	115.48		
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)
					Type		Depth	
Grass over dark brown, sandy, silty clay TOPSOIL.			0.20	115.28	ES		0.10	
Orangish brown, slightly sandy, gravelly, silty CLAY. Gravel comprises sub-angular to rounded, fine to coarse quartzite, sandstone and chert. OADBY MEMBER			0.75	114.73	D		0.80	
Firm to stiff, grey mottled brown, slightly sandy, slightly gravelly, silty CLAY. Gravel comprises sub-angular to sub-rounded, fine to coarse siltstone. OADBY MEMBER					D		1.00	HSV=79.3kPa
							1.00	
							1.50	HSV=98.6kPa
							2.50	HSV=109.3kPa
End of Trial Pit			3.00	112.48				
								
								
								
								
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.				Dimensions: Width: 0.50m Length: 3.00m Depth: 3.00m			Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading	
Stability: Stable								



B - Bulk Sample
D - Disturbed Sample
ES - Environmental Sample
W - Water Sample
PID - PID Reading
HSV - Hand Shear Vane Reading

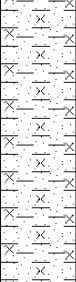
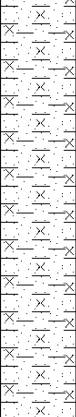


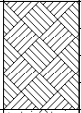
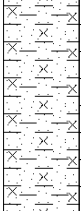
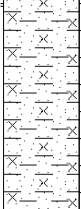
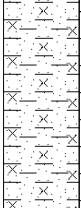
B - Bulk Sample
D - Disturbed Sample
ES - Environmental Sample
W - Water Sample
PID - PID Reading
HSV - Hand Shear Vane Reading

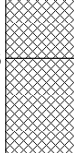
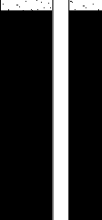
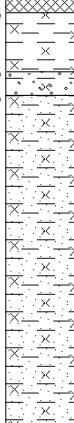


TP22
Sheet 1 of 1

Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.	Dimensions: Width: Length: 2.50m Depth: 3.00m	Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading
Stability: Stable		

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		TP23 Sheet 1 of 1				
Project: Land North of Normandy Way		Project No. 28047	Start Date: 05/09/2023		End Date: 05/09/2023	Plant Used: 360 Excavator			
Location: Hinckley, Leicestershire		Logged By: JM	Easting and Northing Co-ordinates: 441741.94 295607.46			Elevation (m AOD): 110.77			
Client: Richborough Estates Ltd		Approved By: DT							
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)	
					Type		Depth		
Grass over dark brown, sandy, slightly gravelly, silty clay TOPSOIL. Gravel comprises sub-angular to sub-rounded, fine to coarse quartzite and sandstone.			0.30	110.47	ES		0.40		
Firm to stiff, light brown, slightly sandy, silty CLAY. OADBY MEMBER					D		1.00 1.00		HSV=105.3kPa
Becoming light brownish and light grey from 1.40m bgl.					D		2.00 2.00		HSV=118.6kPa
End of Trial Pit			3.00	107.77					
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.				Dimensions: Length: 2.50m Width: 0.50m Depth: 3.20m		Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading			
Stability: Stable									

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		TP24 Sheet 1 of 1			
Project: Land North of Normandy Way		Project No. 28047	Start Date: 05/09/2023		End Date: 05/09/2023	Plant Used: 360 Excavator		
Location: Hinckley, Leicestershire		Logged By: JM	Easting and Northing Co-ordinates: 441745.04 295604.30			Elevation (m AOD): 107.09		
Client: Richborough Estates Ltd		Approved By: DT						
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)
Grass over dark brown, sandy, slightly gravelly, silty clay TOPSOIL. Gravel comprises sub-angular to sub-rounded, fine to coarse quartzite and sandstone.			0.40	106.69	ES 0.10		HSV=68kPa	
Firm to stiff, light brown mottled grey, slightly sandy, silty CLAY. OADBY MEMBER					D 1.00 1.00		HSV=97.6kPa	
Becoming light grey mottled brown from 1.20m bgl.					D 2.00 2.00		HSV=108kPa	
End of Trial Pit			3.20	103.89				
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.					Dimensions: Length: 2.50m Width: 0.50m Depth: 3.20m		Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading	
Stability: Stable								

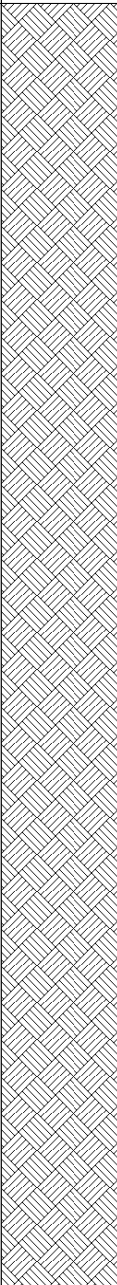
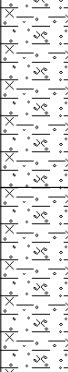
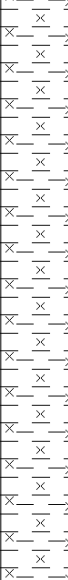
Project:	Land North of Normandy Way	Project No. 28047		Start Date: 04/09/2023		End Date: 04/09/2023		Plant Used: Premier 110		
Location:	Hinckley, Leicestershire	Logged By: DW		Easting and Northing Co-ordinates:				Elevation (m AOD):		
Client:	Richborough Estates Ltd	Approved By: DT		442417.71		295807.35		110.83		
Strata Description		Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill	
					Type	Depth				
MADE GROUND: Brown, silty, slightly sandy, clay topsoil with roots and gravel sized fragments of sub-angular to sub-rounded, fine to medium quartzite.		0.30	110.53		ES	0.15	N60=13			
MADE GROUND: Firm, brown, silty, slightly sandy clay with gravel sized fragments of sub-angular to sub-rounded, fine to medium ceramic and quartzite.					ES	0.50				
Firm, brown mottled blueish grey, silty CLAY. BOSWORTH CLAY MEMBER		0.75	110.08		D	0.90				
Firm, brown mottled blueish grey, silty, gravelly CLAY. Gravel comprises sub-angular to sub-rounded, fine to medium siltstone. OADBY MEMBER		1.00	109.83							
Firm, brown mottled blueish grey, silty, sandy CLAY. OADBY MEMBER		1.10	109.73							
							N60=13			
							N60=13			
							</			

Remarks:

Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator.
Descriptions based on visual inspection by a Geo-environmental engineer.
Groundwater was encountered at 2.50m bgl.
Visual or olfactory evidence of contamination was not observed.

Key:

B - Bulk Sample
D - Disturbed Sample
ES - Environmental Sample
W - Water Sample
PID - PID Reading
N60 - Corrected SPT N Value
G - Gas Monitoring Point

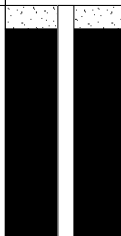
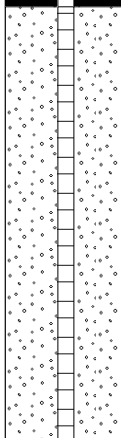
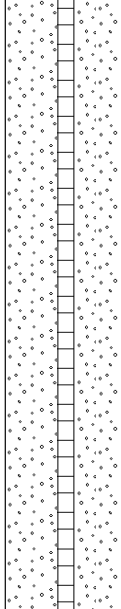
Project: Land North of Normandy Way		Project No. 28047		Start Date: 04/09/2023		End Date: 04/09/2023		Plant Used: Premier 110				
Location: Hinckley, Leicestershire		Logged By: DW		Easting and Northing Co-ordinates:				Elevation (m AOD):				
Client: Richborough Estates Ltd		Approved By: DT		442291.68		295606.90		116.20				
Strata Description		Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill			
					Type	Depth						
Brown, silty, slightly sandy, clay TOPSOIL with gravel sized fragments of sub-angular to sub-rounded, fine to medium quartzite.		0.30	115.90		ES	0.10	N60=17					
Firm, reddish brown, silty, gravelly CLAY. Gravel comprises sub-angular to sub-rounded, fine to medium sandstone, quartzite and flint. OADBY MEMBER					D	0.70						
Firm to stiff, grey and reddish brown, silty, slightly gravelly CLAY. Gravel comprises sub-angular to sub-rounded, fine to medium sandstone. OADBY MEMBER		1.10	115.10		D	2.40						
Becoming sandy from 1.80m bgl.												
Medium dense, reddish brown, very silty, fine to medium SAND. WOLSTON SAND AND GRAVEL DEPOSITS		1.90	114.30									
Reddish brown, clayey SILT. OADBY MEMBER		2.70	113.50		D	3.10				N60=18		
Firm to stiff, grey, silty CLAY. OADBY MEMBER		2.90	113.30									
Becoming stiff from 4.00m bgl.					D	3.10				N60=23		
Borehole terminated at 5.45m		5.45	110.75		D	3.10	N60=40					

Remarks:

Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator.
Descriptions based on visual inspection by a Geo-environmental engineer.
Groundwater was not encountered.
Visual or olfactory evidence of contamination was not observed.

Key:

B - Bulk Sample
D - Disturbed Sample
ES - Environmental Sample
W - Water Sample
PID - PID Reading
N60 - Corrected SPT N Value
G - Gas Monitoring Point

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		WS03 Sheet 1 of 1				
Project: Land North of Normandy Way		Project No. 28047	Start Date: 04/09/2023		End Date: 04/09/2023	Plant Used: Premier 110			
Location: Hinckley, Leicestershire		Logged By: DW	Easting and Northing Co-ordinates: 442141.96 295629.43			Elevation (m AOD): 120.17			
Client: Richborough Estates Ltd		Approved By: DT							
Strata Description		Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill
					Type	Depth			
Brown, silty, slightly sandy, clay TOPSOIL with gravel sized fragments of sub-angular to sub-rounded, fine to medium quartzite.		0.30	119.87		ES	0.20			
Firm to stiff, brown, silty, slightly sandy, gravelly CLAY. Gravel comprises angular to sub-rounded, fine to medium flint and quartzite. OADBY MEMBER					D	0.60			
Firm to stiff, brown and grey, silty, slightly sandy, gravelly CLAY. Gravel comprises sub-angular to sub-rounded, fine to medium chalk and quartzite. OADBY MEMBER		1.00	119.17		D	1.40	N60=19		
Reddish brown, silty, slightly gravelly, fine to medium SAND. Gravel comprises sub-angular to sub-rounded, fine to medium quartzite. OADBY MEMBER		1.30	118.87						
Firm to stiff, grey, silty, gravelly CLAY. Gravel comprises sub-rounded, fine to medium chalk and quartzite. OADBY MEMBER		1.50	118.67						
Stiff, grey, silty, slightly gravelly CLAY. Gravel comprises sub-rounded, fine to medium quartzite and chalk. OADBY MEMBER		2.90	117.27		D	3.00	N60=31		
							N60=40		
							N60=37		
Borehole terminated at 5.45m		5.45	114.72					5.45 ▼	Ⓞ
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was encountered at 5.45m bgl. Visual or olfactory evidence of contamination was not observed.							Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading N60 - Corrected SPT N Value G - Gas Monitoring Point		

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		WS04 Sheet 1 of 1				
Project: Land North of Normandy Way		Project No. 28047		Start Date: 04/09/2023		End Date: 04/09/2023		Plant Used: Premier 110	
Location: Hinckley, Leicestershire		Logged By: DW		Easting and Northing Co-ordinates: 442070.15 295548.49				Elevation (m AOD): 119.99	
Client: Richborough Estates Ltd		Approved By: DT							
Strata Description		Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill
					Type	Depth			
Brown, silty, slightly sandy, clay TOPSOIL with gravel sized fragments of sub-angular to sub-rounded, fine to medium quartzite.		0.30	119.69		ES	0.15	N60=14		
Firm to stiff, brown becoming grey, silty, gravelly CLAY. Gravel comprises angular to sub-rounded, fine to medium chalk, siltstone, quartzite, flint and ironstone. OADBY MEMBER					D	0.75			
					D	1.50			
Becoming stiff from 2.00m bgl.					D	4.00	N60=29		
							N60=30		
							N60=34		
Stiff, grey, silty, slightly gravelly CLAY. Gravel comprises sub-rounded, fine quartzite and chalk. OADBY MEMBER		3.70	116.29				N60=50		
Borehole terminated at 5.45m		5.45	114.54						
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.							Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading N60 - Corrected SPT N Value G - Gas Monitoring Point		



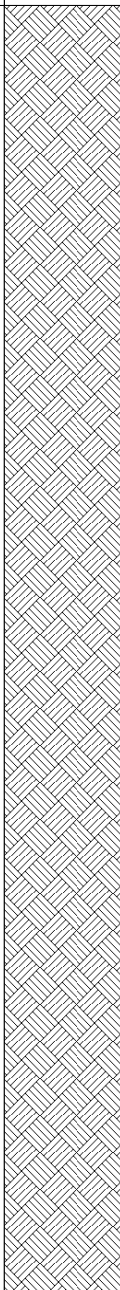
MEC
Development Technical
Consultants

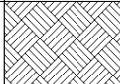
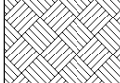
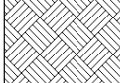
Mewies Engineering Consultants Ltd
The Old Chapel, Station Road
Hugglescote, Leicestershire
LE67 2GB

Exploratory
Hole ID:

WS05

Sheet 1 of 1

Project:	Land North of Normandy Way	Project No. 28047		Start Date: 04/09/2023		End Date: 04/09/2023		Plant Used: Premier 110		
Location:	Hinckley, Leicestershire	Logged By: DW		Easting and Northing Co-ordinates: 442011.64 295466.54				Elevation (m AOD): 115.80		
Client:	Richborough Estates Ltd	Approved By: DT								
Strata Description		Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill	
					Type	Depth				
Brown, silty, slightly sandy, clay TOPSOIL with gravel sized fragments of sub-angular to sub-rounded, fine to medium quartzite.		0.30	115.50		ES	0.20	N60=16			
Firm, brown mottled grey, silty, slightly sandy, gravelly CLAY. Gravel comprises sub-rounded, fine to medium siltstone, flint and quartzite. OADBY MEMBER					D	0.60				
Firm to stiff, brown mottled grey, silty, slightly gravelly CLAY. Gravel comprises sub-rounded, fine to medium siltstone. OADBY MEMBER		1.00	114.80		D	2.00				N60=16
Firm to stiff, brown mottled grey, silty CLAY. OADBY MEMBER		1.60	114.20							
<i>Becoming stiff from 3.00m bgl.</i>										
Brown, clayey SILT. OADBY MEMBER		3.80	112.00		D	2.00	N60=21			
Stiff, brown mottled grey, silty CLAY. OADBY MEMBER		3.90	111.90							
					D	2.00	N60=25			
					D	2.00	N60=32			
					D	2.00				
					D	2.00				
					D	2.00				
					D	2.00				
					D	2.00				
					D	2.00				
					D	2.00				
					D	2.00				
					D	2.00				
					D	2.00				
					D	2.00				
					D	2.00				
Borehole terminated at 5.45m		5.45	110.35							

 MEC Development Technical Consultants		Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB		Exploratory Hole ID:		WS06 Sheet 1 of 1			
Project: Land North of Normandy Way		Project No. 28047		Start Date: 04/09/2023		End Date: 04/09/2023		Plant Used: Premier 110	
Location: Hinckley, Leicestershire		Logged By: DW		Easting and Northing Co-ordinates: 442230.74 295784.33				Elevation (m AOD): 116.95	
Client: Richborough Estates Ltd		Approved By: DT							
Strata Description		Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill
					Type	Depth			
Brown, silty, slightly sandy, clay TOPSOIL with gravel sized fragments of sub-angular to sub-rounded, fine to medium quartzite.		0.35	116.60		ES	0.10			
Firm, grey mottled brown, silty, slightly sandy, gravelly CLAY. Gravel comprises sub-angular to sub-rounded, fine to medium ironstone flint and quartzite. OADBY MEMBER					D	1.00			
Becoming stiff from 1.00m bgl.									
Stiff, reddish brown, silty, gravelly CLAY. Gravel comprises angular to sub-rounded, fine to medium quartzite, flint, sandstone and siltstone. OADBY MEMBER		1.70	115.25		D	2.70	N60=21		
Stiff, reddish brown, silty, slightly sandy, gravelly CLAY. Gravel comprises angular to sub-rounded, fine quartzite, flint, sandstone and siltstone. OADBY MEMBER		3.00	113.95			N60=25			
Stiff, reddish brown, silty, slightly sandy, gravelly CLAY. Gravel comprises angular to sub-rounded, fine quartzite, flint, sandstone and siltstone. OADBY MEMBER							N60=22	3.40 ▼	
							N60=29		
Reddish brown, silty, fine to coarse SAND. WOLSTON SAND AND GRAVEL DEPOSITS		5.20	111.75						
Borehole terminated at 5.45m		5.45	111.50						
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was encountered at 3.40m bgl. Visual or olfactory evidence of contamination was not observed.							Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading N60 - Corrected SPT N Value G - Gas Monitoring Point		



MEC
Development Technical
Consultants

Mewies Engineering Consultants Ltd
The Old Chapel, Station Road
Hugglescote, Leicestershire
LE67 2GB

Exploratory
Hole ID:

WS07

Sheet 1 of 1

Project:	Land North of Normandy Way	Project No. 28047		Start Date: 05/09/2023		End Date: 05/09/2023		Plant Used: Premier 110	
Location:	Hinckley, Leicestershire	Logged By: DW		Easting and Northing Co-ordinates: 441796.65 295441.04				Elevation (m AOD): 107.61	
Client:	Richborough Estates Ltd	Approved By: DT							
Strata Description		Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill
					Type	Depth			
Brown, silty, slightly sandy, clay TOPSOIL with gravel sized fragments of sub-angular to sub-rounded, fine to medium quartzite.		0.35	107.26		ES	0.15			
Firm, brown and grey, silty CLAY. BOSWORTH CLAY MEMBER									
Firm, orangish brown, silty, sandy, gravelly CLAY. Gravel comprises angular to sub-rounded, fine to medium quartzite and flint. OADBY MEMBER		0.75	106.86		D	0.80	N60=16		
Firm to stiff, brown mottled grey, silty CLAY. OADBY MEMBER		0.85	106.76						
					D	1.90	N60=18		
					D	2.40			
					D	4.20	N60=31		
					D	4.20	N60=27		
Soft to firm, brown, clayey SILT. OADBY MEMBER		4.30	103.31		D	4.20	N60=46		
Stiff, brown mottled grey, silty CLAY. OADBY MEMBER		4.40	103.21						
					D	4.20	N60=46		
Borehole terminated at 5.45m		5.45	102.16						

Remarks:

Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator.
Descriptions based on visual inspection by a Geo-environmental engineer.
Groundwater was not encountered.
Visual or olfactory evidence of contamination was not observed.

Key:

B - Bulk Sample
D - Disturbed Sample
ES - Environmental Sample
W - Water Sample
PID - PID Reading
N60 - Corrected SPT N Value
G - Gas Monitoring Point



MEC
Development Technical
Consultants

Mewies Engineering Consultants Ltd
The Old Chapel, Station Road
Hugglescote, Leicestershire
LE67 2GB

Exploratory
Hole ID:

WS08

Sheet 1 of 1

Project:	Land North of Normandy Way	Project No.	28047	Start Date:	05/09/2023	End Date:	05/09/2023	Plant Used:	Premier 110
Location:	Hinckley, Leicestershire	Logged By:	DW	Easting and Northing Co-ordinates:		Elevation (m AOD):			
Client:	Richborough Estates Ltd	Approved By:	DT						

Strata Description	Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill
				Type	Depth			
Brown, silty, slightly sandy, clay TOPSOIL with gravel sized fragments of sub-angular to sub-rounded, fine to medium quartzite.	0.35	106.56		ES	0.20	N60=10		
Soft to firm, grey mottled brown, silty CLAY. BOSWORTH CLAY MEMBER				ES	0.50			
Soft to firm, grey mottled brown, silty, gravelly CLAY. Gravel comprises sub-angular to sub-rounded, fine to medium quartzite and flint. OADBY MEMBER	0.85	106.06		D	1.20			
Firm, grey mottled brown, slightly gravelly, silty CLAY. Gravel comprises sub-rounded, fine siltstone. OADBY MEMBER	0.95	105.96		D	1.40			
Firm to stiff, brown and grey, silty CLAY. OADBY MEMBER	1.80	105.10		D	3.20	N60=17		
Becoming brown from 3.00m bgl.						N60=19		
Becoming stiff from 4.00m bgl.						N60=32		
Pockets of soft, brown, silty CLAY from 4.55m to 4.60m bgl.						N60=40		
Borehole terminated at 5.45m	5.45	101.46						

Remarks:

Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator.
Descriptions based on visual inspection by a Geo-environmental engineer.
Groundwater was not encountered.
Visual or olfactory evidence of contamination was not observed.

Key:

B - Bulk Sample
D - Disturbed Sample
ES - Environmental Sample
W - Water Sample
PID - PID Reading
N60 - Corrected SPT N Value
G - Gas Monitoring Point



MEC
Development Technical
Consultants

Mewies Engineering Consultants Ltd
The Old Chapel, Station Road
Hugglescote, Leicestershire
LE67 2GB

Exploratory
Hole ID:

WS09

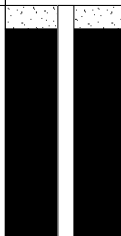
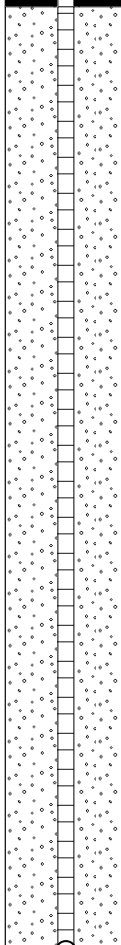
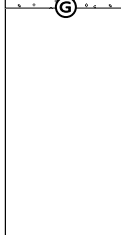
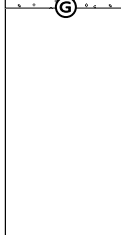
Sheet 1 of 1

Project:	Land North of Normandy Way	Project No.	28047	Start Date:	05/09/2023	End Date:	05/09/2023	Plant Used:	Premier 110
Location:	Hinckley, Leicestershire	Logged By:	DW	Easting and Northing Co-ordinates:		Elevation (m AOD):			
Client:	Richborough Estates Ltd	Approved By:	DT						

Strata Description	Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill
				Type	Depth			
Brown, silty, slightly sandy, clay TOPSOIL with gravel sized fragments of sub-angular to sub-rounded, fine to medium quartzite.	0.30	109.09		ES	0.20			
Firm, brown mottled grey, silty, gravelly CLAY. Gravel comprises sub-angular to sub-rounded, fine to medium quartzite. OADBY MEMBER				D	0.90	N60=9		
Soft to firm, brown mottled grey, silty CLAY. OADBY MEMBER	1.00	108.39		D				
Becoming firm to stiff from 2.00m bgl.				D	2.10	N60=16		
Becoming stiff and brown from 3.00m bgl.				D	3.00	N60=19		
						N60=27		
						N60=32		
Borehole terminated at 5.00m	5.00	104.39						

Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.	Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading N60 - Corrected SPT N Value G - Gas Monitoring Point
--	--

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		WS10 Sheet 1 of 1				
Project: Land North of Normandy Way		Project No. 28047		Start Date: 05/09/2023		End Date: 05/09/2023		Plant Used: Premier 110	
Location: Hinckley, Leicestershire		Logged By: DW		Easting and Northing Co-ordinates: 442360.75 295926.90				Elevation (m AOD): 110.67	
Client: Richborough Estates Ltd		Approved By: DT							
Strata Description		Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill
					Type	Depth			
Brown, silty, slightly gravelly sand TOPSOIL with gravel sized fragments of sub-rounded, fine to medium quartzite.		0.30	110.37		ES	0.10	N60=8		
Brown and light brown, silty, slightly clayey, slightly gravelly, fine to coarse SAND. Gravel comprises sub-angular to sub-rounded, fine to medium quartzite and flint. WOLSTON SAND AND GRAVEL DEPOSITS					D	1.00			
Soft to firm, reddish brown, silty, sandy, gravelly CLAY. Gravel comprises sub-angular to sub-rounded, fine to medium, quartzite, flint, siltstone, mudstone and charcoal. OADBY MEMBER		1.20	109.47	D	1.60				
Becoming firm from 2.00m bgl.									
Becoming firm to stiff from 3.00m bgl.							N60=22		
Stiff, brown, silty CLAY. OADBY MEMBER		3.80	106.87				N60=21		
Borehole terminated at 5.00m		5.00	105.67				N60=28		
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.							Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading N60 - Corrected SPT N Value G - Gas Monitoring Point		

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		WS11 Sheet 1 of 1				
Project: Land North of Normandy Way		Project No. 28047		Start Date: 05/09/2023		End Date: 05/09/2023		Plant Used: Premier 110	
Location: Hinckley, Leicestershire		Logged By: DW		Easting and Northing Co-ordinates: 442284.78 295936.75				Elevation (m AOD): 113.51	
Client: Richborough Estates Ltd		Approved By: DT							
Strata Description		Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill
					Type	Depth			
Brown, silty, clayey, gravelly sand TOPSOIL with gravel sized fragments of angular to sub-rounded, fine to medium quartzite and flint.		0.30	113.21		D	0.20	N60=13		
Firm, reddish brown, silty, sandy, gravelly CLAY. Gravel comprises angular to sub-rounded, fine to medium sandstone, quartzite, siltstone and flint with charcoal fragments. OADBY MEMBER					D	0.80			
		2.20	111.31		D	2.00	N60=19		
Firm, brown, silty, slightly sandy, gravelly CLAY. Gravel comprises sub-rounded, fine to medium quartzite, flint and siltstone. OADBY MEMBER					D	3.30	N60=14		
							N60=30		
Becoming very stiff from 4.00m bgl.									
		5.00	108.51						
Borehole terminated at 5.00m									
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.							Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading N60 - Corrected SPT N Value G - Gas Monitoring Point		



MEC
Development Technical
Consultants

Mewies Engineering Consultants Ltd
The Old Chapel, Station Road
Hugglescote, Leicestershire
LE67 2GB

Exploratory
Hole ID:

WS12

Sheet 1 of 1

Project:	Land North of Normandy Way	Project No.	28047	Start Date:	05/09/2023	End Date:	05/09/2023	Plant Used:	Premier 110
Location:	Hinckley, Leicestershire	Logged By:	DW	Easting and Northing Co-ordinates:		Elevation (m AOD):		120.82	
Client:	Richborough Estates Ltd	Approved By:	DT						

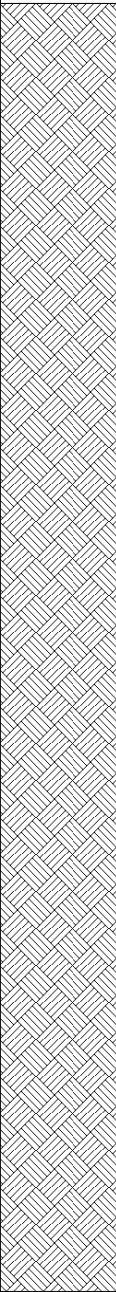
Strata Description	Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill
				Type	Depth			
Brown, silty, slightly clayey, gravelly sand TOPSOIL with gravel sized fragments of sub-rounded, fine to medium quartzite.	0.30	120.52		ES	0.20			
Firm, reddish brown, silty, slightly sandy, gravelly CLAY. Gravel comprises angular to sub-rounded, fine to medium siltstone, quartzite and charcoal fragments. OADBY MEMBER				D	1.10	N60=10		
						N60=13		
Soft, reddish brown, very silty, sandy CLAY. OADBY MEMBER	2.50	118.32		D	2.80	N60=14		
Medium dense, reddish brown, slightly gravelly, fine to coarse SAND with charcoal fragments. Gravel comprises sub-rounded, fine quartzite. WOLSTON SAND AND GRAVEL DEPOSITS	2.60	118.22						
						N60=18		
Medium dense, reddish brown, fine to coarse SAND. WOLSTON SAND AND GRAVEL DEPOSITS	3.30	117.52				N60=21		
Borehole terminated at 5.00m	5.00	115.82						

Remarks:

Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator.
Descriptions based on visual inspection by a Geo-environmental engineer.
Groundwater was not encountered.
Visual or olfactory evidence of contamination was not observed.

Key:

B - Bulk Sample
D - Disturbed Sample
ES - Environmental Sample
W - Water Sample
PID - PID Reading
N60 - Corrected SPT N Value
G - Gas Monitoring Point

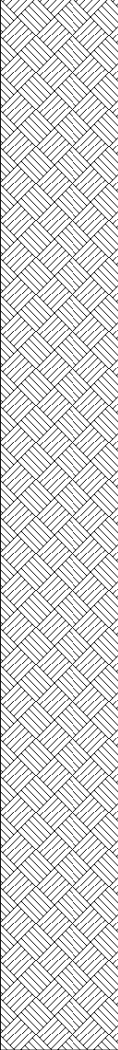
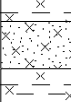
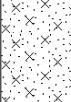
Project: Land North of Normandy Way		Project No. 28047		Start Date: 06/09/2023		End Date: 06/09/2023		Plant Used: Premier 110			
Location: Hinckley, Leicestershire		Logged By: DW		Easting and Northing Co-ordinates:				Elevation (m AOD):			
Client: Richborough Estates Ltd		Approved By: DT		441935.19		295608.69		114.46			
Strata Description		Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill		
					Type	Depth					
Brown, silty, slightly clayey, slightly gravelly, fine to medium sand TOPSOIL with gravel sized fragments of sub-angular to sub-rounded, fine to medium quartzite, flint and ironstone.		0.35	114.10		ES	0.20	N60=6				
Brown, silty, slightly clayey, slightly gravelly, fine to medium SAND with roots. Gravel comprises angular to sub-rounded, fine to medium quartzite and flint.											
OADBY MEMBER		0.70	113.76		D	1.20					
Firm, grey, silty, slightly sandy, slightly gravelly CLAY. Gravel comprises sub-angular to sub-rounded, fine to medium quartzite and flint.		1.00	113.46								
OADBY MEMBER		1.40	113.06								
Soft, reddish brown mottled grey, silty, sandy, gravelly CLAY. Gravel comprises sub-angular to sub-rounded, fine to medium, quartzite and flint.										1.75	112.70
OADBY MEMBER										1.80	112.66
Soft, reddish brown mottled grey, very silty CLAY. OADBY MEMBER				D	2.40	N60=18					
Firm to stiff, reddish brown mottled grey, silty, slightly gravelly CLAY. Gravel comprises sub-rounded, fine to medium siltstone. OADBY MEMBER											
Firm to stiff, reddish brown mottled grey, silty CLAY. OADBY MEMBER											
Firm, reddish brown sandy, clayey SILT. OADBY MEMBER		2.90	111.56		D	3.10	N60=10				
Firm to stiff, brown, silty CLAY. OADBY MEMBER		3.25	111.20								
							N60=23				
Soft, reddish brown, sandy, clayey SILT. OADBY MEMBER		5.00	109.46			N60=35					
Very stiff, brown, silty CLAY. BOSWORTH CLAY MEMBER		5.10	109.36								
Borehole terminated at 5.45m		5.45	109.00								

Remarks:

Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator.
Descriptions based on visual inspection by a Geo-environmental engineer.
Groundwater was encountered at 3.20m bgl.
Visual or olfactory evidence of contamination was not observed.

Key:

B - Bulk Sample
D - Disturbed Sample
ES - Environmental Sample
W - Water Sample
PID - PID Reading
N60 - Corrected SPT N Value
G - Gas Monitoring Point

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		WS14 Sheet 1 of 1						
Project: Land North of Normandy Way		Project No. 28047		Start Date: 06/09/2023		End Date: 06/09/2023		Plant Used: Premier 110			
Location: Hinckley, Leicestershire		Logged By: DW		Easting and Northing Co-ordinates: 441953.25 295584.93				Elevation (m AOD): 113.50			
Client: Richborough Estates Ltd		Approved By: DT									
Strata Description		Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill		
					Type	Depth					
MADE GROUND: Brown, silty, sand topsoil with roots and gravel sized fragments of angular, fine to coarse concrete, and brick.		0.45	113.05		ES	0.30	N60=5	1.20 ▼			
Firm, grey mottled brown, silty, slightly sandy, CLAY. OADBY MEMBER					ES	0.50					
		D	1.00								
Loose grey and brown, slightly clayey, very silty SAND. OADBY MEMBER		1.20	112.30		D	1.80	N60=21				
Soft brownish, grey, silty CLAY. OADBY MEMBER										1.40	112.10
Reddish brown, very silty, fine to medium SAND. OADBY MEMBER		1.90	111.60		D	N60=24					
Stiff brownish, grey, silty CLAY. OADBY MEMBER		2.10	111.40								
Medium dense reddish brown, very silty, fine SAND. WOLSTON SAND AND GRAVEL DEPOSITS		2.90	110.60		D	3.00	N60=31				
Very stiff, grey, silty CLAY. OADBY MEMBER		4.25	109.25		D	3.00	N60=31				
Borehole terminated at 4.45m		4.45	109.05								

 MEC Development Technical Consultants		Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB		Exploratory Hole ID:		WS15 Sheet 1 of 1					
Project: Land North of Normandy Way		Project No. 28047		Start Date: 06/09/2023		End Date: 06/09/2023		Plant Used: Premier 110			
Location: Hinckley, Leicestershire		Logged By: DW		Easting and Northing Co-ordinates: 441939.65 295512.06				Elevation (m AOD): 112.66			
Client: Richborough Estates Ltd		Approved By: DT									
Strata Description		Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill		
					Type	Depth					
Brown, silty, slightly gravelly, clay TOPSOIL with gravel sized fragments of sub-rounded, fine to medium quartzite and flint.		0.30	112.36		ES	0.15	N60=6				
Firm, brown mottled grey, silty, slightly sandy, gravelly CLAY. Gravel comprises sub-rounded, fine to medium siltstone. OADBY MEMBER					ES	0.40					
Soft to firm, reddish brown, silty, sandy CLAY. OADBY MEMBER		0.90	111.76		D	1.80					
Soft, brown mottled grey, silty, slightly sandy, gravelly CLAY. Gravel comprises sub-rounded, fine to medium siltstone. OADBY MEMBER		0.95	111.71								
Soft, reddish brown, silty, sandy CLAY. OADBY MEMBER		1.25	111.41								
Firm to stiff, brown mottled grey, silty CLAY with pockets of silty, sandy clay. OADBY MEMBER		1.60	111.06			N60=16					
Firm to stiff, brown, silty CLAY. OADBY MEMBER		2.95	109.71		D	4.00	N60=18				
Stiff, brown, silty CLAY. OADBY MEMBER		3.30	109.36								
Becoming stiff from 4.00m bgl.							N60=25				
					D	4.00	N60=35				
Becoming very stiff from 5.00m bgl.											
Borehole terminated at 5.45m		5.45	107.21		D						
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.							Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading N60 - Corrected SPT N Value G - Gas Monitoring Point				



MEC
Development Technical
Consultants

Mewies Engineering Consultants Ltd
The Old Chapel, Station Road
Hugglescote, Leicestershire
LE67 2GB

Exploratory
Hole ID:

WS16

Sheet 1 of 1

Project:	Land North of Normandy Way	Project No.	28047	Start Date:	06/09/2023	End Date:	06/09/2023	Plant Used:	Premier 110
Location:	Hinckley, Leicestershire	Logged By:	DW	Easting and Northing Co-ordinates:		Elevation (m AOD):		115.66	
Client:	Richborough Estates Ltd	Approved By:	DT						

Strata Description	Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill
				Type	Depth			
Brown, silty, slightly clayey, slightly gravelly, fine to medium sand TOPSOIL with gravel sized fragments of sub-rounded, fine to medium quartzite.	0.35	115.31		D	0.80	N60=8		
Brown, silty, sandy, slightly gravelly CLAY. Gravel comprises sub-angular to sub-rounded, fine to medium quartzite and flint. OADBY MEMBER	0.60	115.06						
Reddish brown, silty, clayey SAND. OADBY MEMBER	1.00	114.66						
Soft to firm, orangish and light brown, silty, sandy CLAY. OADBY MEMBER	1.50	114.16						
Firm, grey, silty CLAY. OADBY MEMBER				D	2.10	N60=6		
Becoming soft from 2.00m bgl.								
				D	2.70	N60=13		
Becoming firm from 3.00m bgl.								
						N60=12		
						N60=16		
Borehole terminated at 5.00m	5.00	110.66						

Remarks:

Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator.
Descriptions based on visual inspection by a Geo-environmental engineer.
Groundwater was not encountered.
Visual or olfactory evidence of contamination was not observed.

Key:

B - Bulk Sample
D - Disturbed Sample
ES - Environmental Sample
W - Water Sample
PID - PID Reading
N60 - Corrected SPT N Value
G - Gas Monitoring Point



MEC
Development Technical
Consultants

Mewies Engineering Consultants Ltd
The Old Chapel, Station Road
Hugglescote, Leicestershire
LE67 2GB

Exploratory
Hole ID:

WS17

Sheet 1 of 1

Project:	Land North of Normandy Way	Project No.	28047	Start Date:	06/09/2023	End Date:	06/09/2023	Plant Used:	Premier 110
Location:	Hinckley, Leicestershire	Logged By:	DW	Easting and Northing Co-ordinates:		Elevation (m AOD):		107.69	
Client:	Richborough Estates Ltd	Approved By:	DT						

Strata Description	Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill
				Type	Depth			
Brown, silty, slightly clayey, slightly gravelly, fine to medium sand TOPSOIL with roots and gravel sized fragments of sub-rounded, fine quartzite.								
Firm to stiff, grey and brown, silty, slightly gravelly, CLAY. Gravel comprises sub-rounded, fine to medium quartzite. OADBY MEMBER	0.50	107.19						
Firm to stiff, brown mottled grey, silty CLAY. OADBY MEMBER	0.80	106.89						
				D	1.30	N60=19		
						N60=18		
						N60=29		
Becoming stiff from 3.00m bgl.				D	3.10			
Brown, clayey SILT. OADBY MEMBER	3.70	103.99						
Firm to stiff, brown, very silty CLAY. OADBY MEMBER	3.80	103.89						
Stiff, brown, silty CLAY. OADBY MEMBER	3.90	103.79				N60=21		
							4.30 ▼	
Firm to stiff, brown, very silty CLAY. OADBY MEMBER	4.70	102.99						
Borehole terminated at 5.00m	5.00	102.69				N60=40		

Remarks:

Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator.
Descriptions based on visual inspection by a Geo-environmental engineer.
Groundwater was encountered at 4.30m bgl.
Visual or olfactory evidence of contamination was not observed.

Key:

B - Bulk Sample
D - Disturbed Sample
ES - Environmental Sample
W - Water Sample
PID - PID Reading
N60 - Corrected SPT N Value
G - Gas Monitoring Point



MEC
Development Technical
Consultants

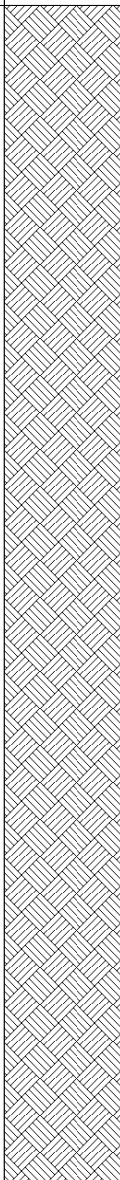
Mewies Engineering Consultants Ltd
The Old Chapel, Station Road
Hugglescote, Leicestershire
LE67 2GB

Exploratory
Hole ID:

WS18

Sheet 1 of 1

Project:	Land North of Normandy Way	Project No.	28047	Start Date:	06/09/2023	End Date:	06/09/2023	Plant Used:	Premier 110
Location:	Hinckley, Leicestershire	Logged By:	DW	Easting and Northing Co-ordinates:		Elevation (m AOD):		110.64	
Client:	Richborough Estates Ltd	Approved By:	DT						

Strata Description	Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill			
				Type	Depth						
Brown, silty, sandy slightly gravelly, clay TOPSOIL with roots and gravel sized fragments of sub-angular to sub-rounded, fine to medium quartzite.	0.35	110.29		ES	0.10	N60=13					
Firm, grey and brown, silty CLAY. OADBY MEMBER				D	0.90						
Firm, brown and grey, silty, slightly gravelly CLAY. Gravel comprises sub-rounded, fine siltstone. OADBY MEMBER	D	2.60									
Firm to stiff, brown mottled grey, silty CLAY. OADBY MEMBER			D	2.60							
Firm, brown, silty CLAY. OADBY MEMBER	2.80	107.84							D	2.60	N60=17
			D	2.60							
	D	2.60			N60=23						
			D	2.60					N60=40		
	D	2.60			N60=40						
			D	2.60					N60=40		
	D	2.60			N60=40						
			D	2.60		N60=40					
	D	2.60			N60=40						
			D	2.60		N60=40					
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									
			D	2.60	N60=40						
D	2.60	N60=40									



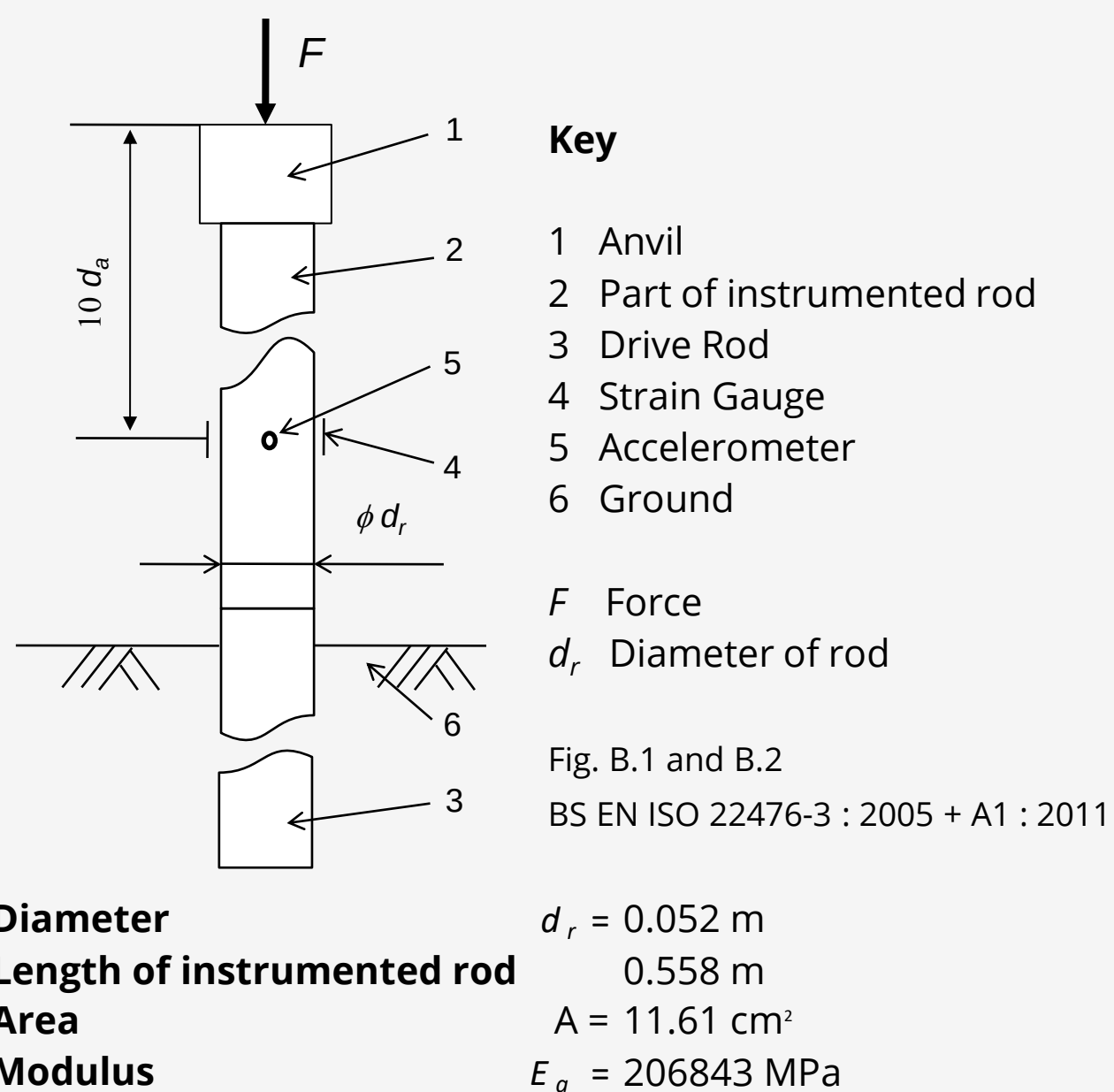
SPT Calibration Report

Hammer Energy Measurement Report

Type of Hammer PREMIER
Test No EQU2023_122
Client MEC

Test Depth (m) 9.70
Mass of hammer $m = 63.5\text{kg}$
Falling height $h = 0.76\text{m}$
 $E_{\text{theor}} = m \times g \times h = 473\text{J}$

Characteristics of the instrumented rod



DATE OF TEST VALID UNTIL HAMMER ID

17/07/2023

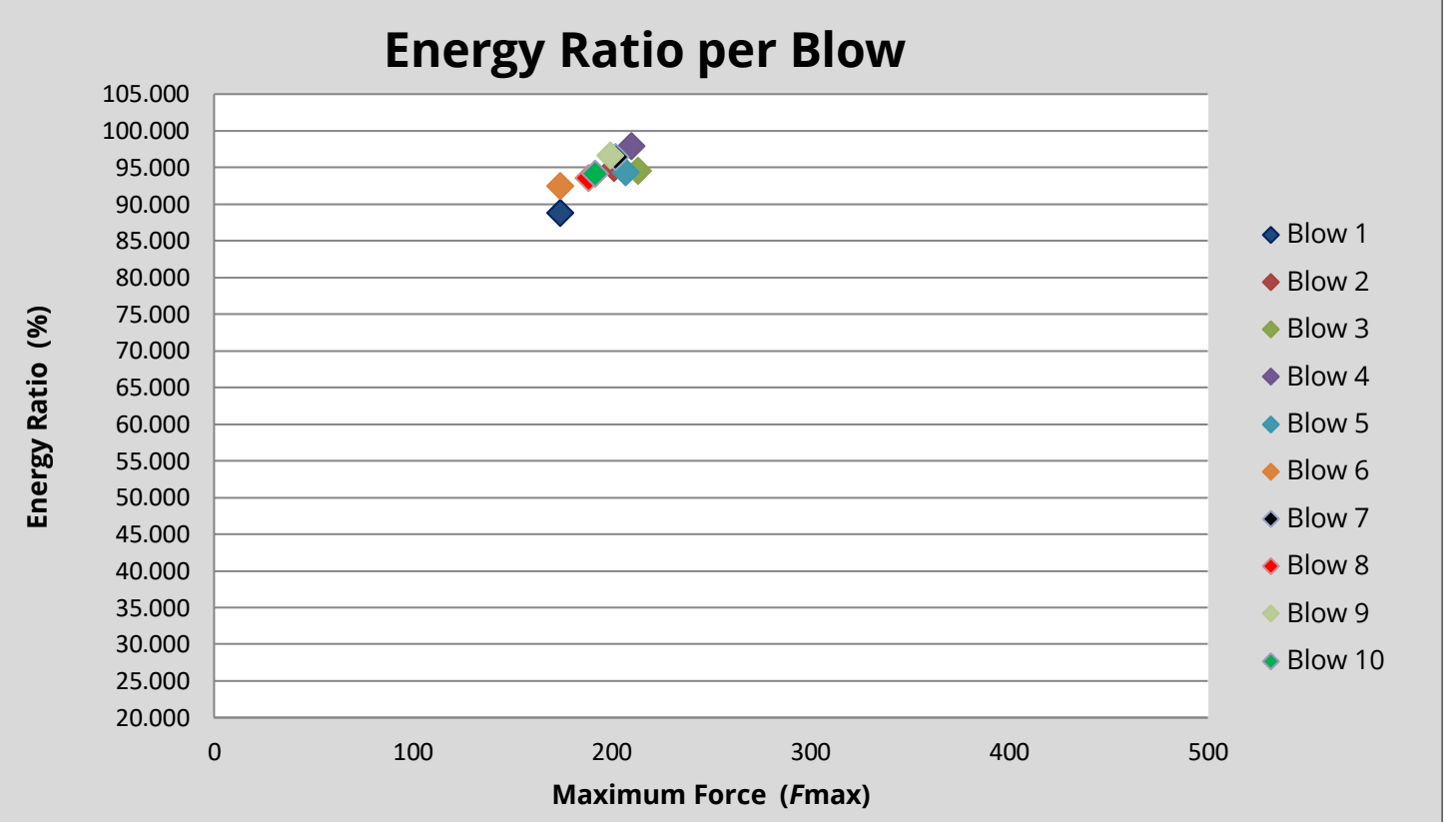
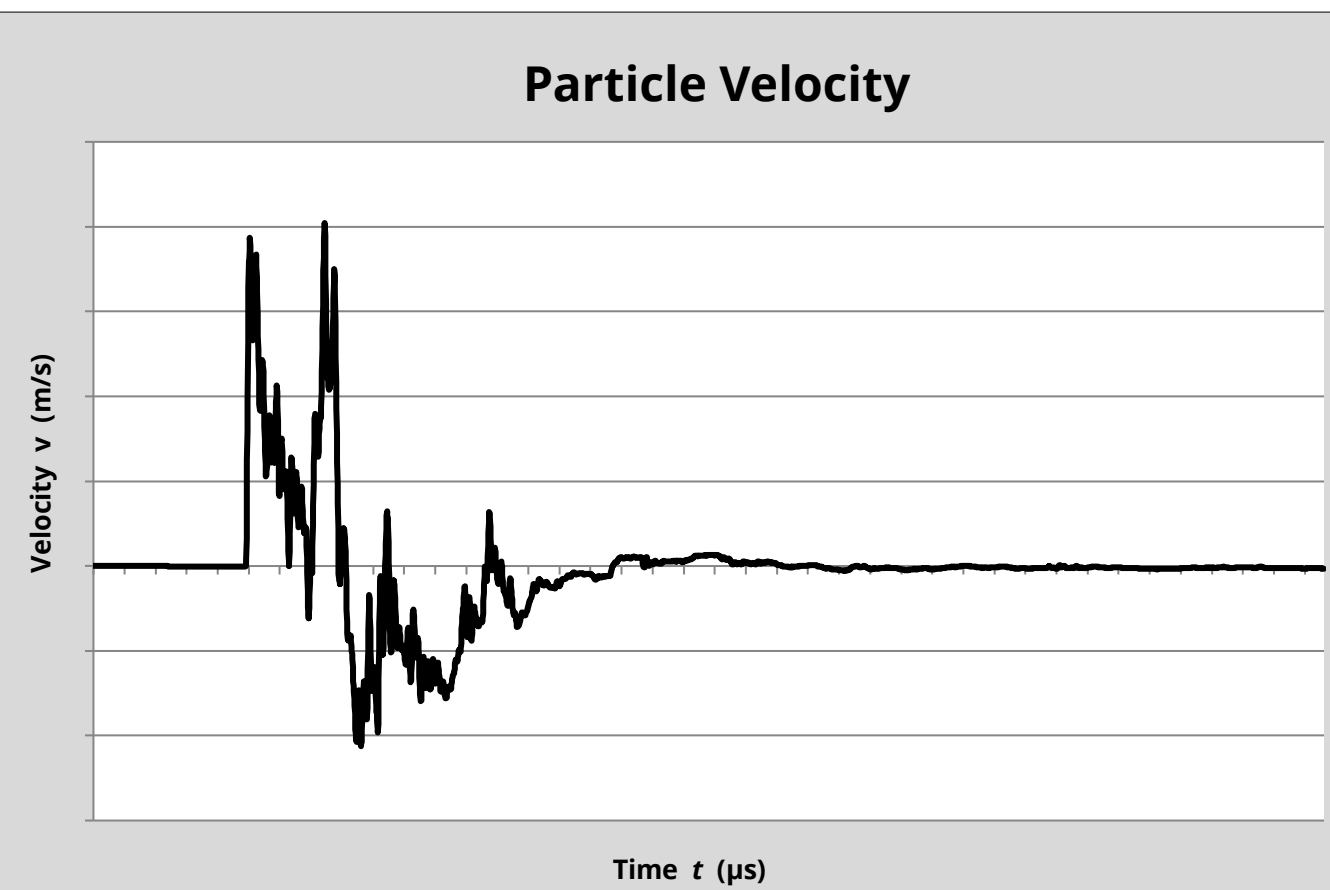
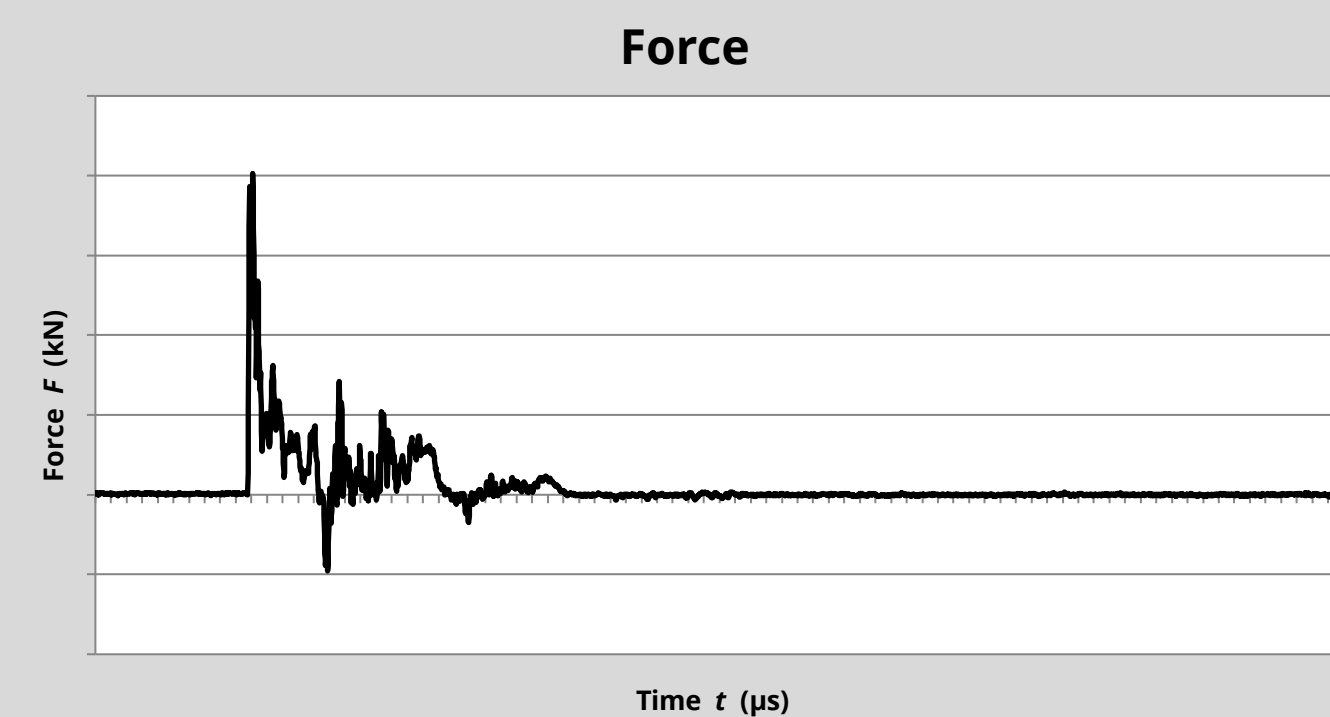
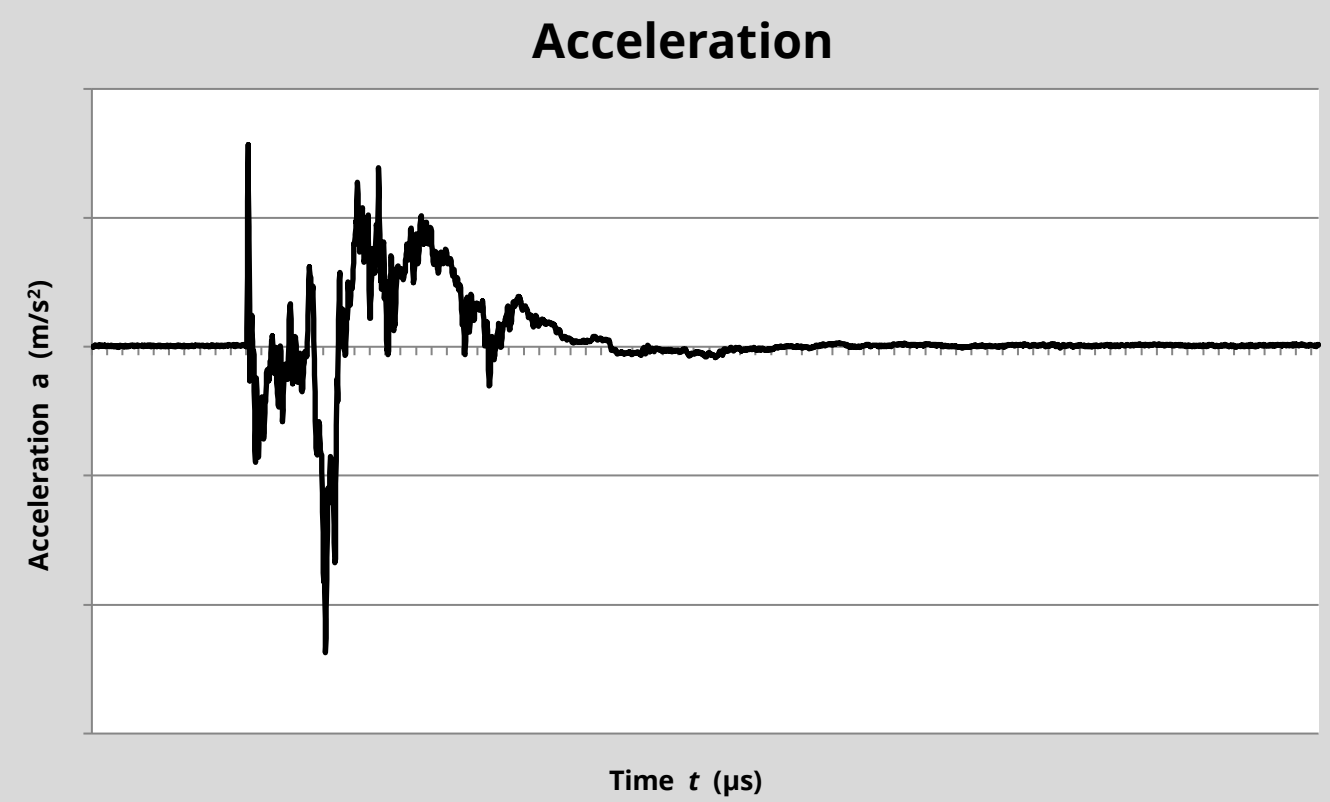
16/07/2024

110 111

$E_{\text{meas}} = 0.441\text{ kN-m}$

$E_{\text{theor}} = 0.473\text{ kN-m}$

Comments



Energy Ratio (Er) = $\frac{E_{\text{meas}}}{E_{\text{theor}}}$

93.16%

Equipe SPT Analyzer Operator

KS

Certificate prepared by

[Signature]

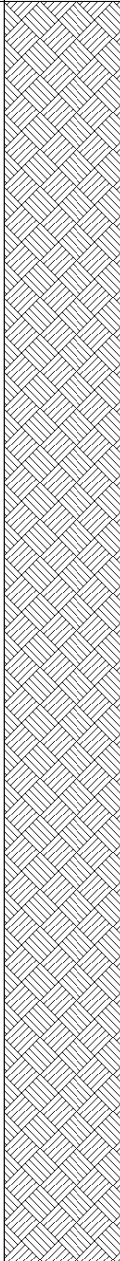
Certificate checked by

[Signature]

Certificate date

01/08/2023

 MEC Development Technical Consultants		Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB		Exploratory Hole ID:		BH01 Sheet 1 of 1			
Project: Land North of Normandy Way		Project No. 28047		Start Date: 11/09/2023		End Date: 11/09/2023		Plant Used: Cable Percussion Rig	
Location: Hinckley, Leicestershire		Logged By: DW		Easting and Northing Co-ordinates: 441795.20 295526.32				Elevation (m AOD): 105.62	
Client: Richborough Estates Ltd		Approved By: DT							
Strata Description		Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill
					Type	Depth			
Brown, slightly clayey, silty, slightly gravelly, sand TOPSOIL. Gravel is sub-rounded, fine to medium quartzite and flint.		0.50	105.12		B	0.10	N60=3		
Firm locally very soft and soft, brown mottled grey and light brown, silty, slightly sandy, gravelly CLAY. Gravel is sub-rounded, fine to medium quartzite and flint. BOSWORTH CLAY MEMBER					D	0.50			
					D	1.20			
					B	1.25			
Firm, brown, silty CLAY. OADBY MEMBER		2.00	103.62		U	2.00	Ublow= 22		
					D	3.00	N60=8		
Becoming very stiff from 4.00m bgl.					U	4.00	Ublow= 45		
					D	5.00	N60=16		
					B	6.00	Ublow= 72		
					U	6.50			
Becoming firm to stiff from 5.00m bgl					D	8.00	N60=21		
					U	9.50	Ublow= 83		
Becoming stiff from 8.00m bgl.		10.00	95.62		D	10.00			
Borehole terminated at 10.00m									
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed. Co-ordinates and elevations estimated from the topographical survey.							Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading N60 - Corrected SPT N Value G - Gas Monitoring Point		

 MEC Development Technical Consultants		Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB		Exploratory Hole ID:		BH02 Sheet 1 of 1						
Project: Land North of Normandy Way		Project No. 28047		Start Date: 11/09/2023		End Date: 11/09/2023		Plant Used: Cable Percussion Rig				
Location: Hinckley, Leicestershire		Logged By: DW		Easting and Northing Co-ordinates: 441928.90 295669.51				Elevation (m AOD): 114.14				
Client: Richborough Estates Ltd		Approved By: DT										
Strata Description		Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill			
					Type	Depth						
Brown, slightly clayey, silty, slightly gravelly, sand TOPSOIL. Gravel is sub-rounded, fine to medium quartzite and flint.		0.50	113.64		B	0.10	Ublow= 25	1.70 				
Soft to firm, brown mottled grey and light brown, silty, slightly sandy, slightly gravelly CLAY. Gravel is sub-rounded, fine to medium siltstone. OADBY MEMBER					D	0.50						
					B	0.70						
Soft, brown and grey, silty, slightly gravelly CLAY. Gravel is sub-rounded, fine siltstone. OADBY MEMBER		1.50	112.64		UF	1.20	N60=5					
					D	1.70						
					D	2.00						
Firm, reddish brown and grey, very silty CLAY. OADBY MEMBER		2.50	111.64		D	2.50	N60=10					
					B	3.00						
					D	3.20						
Firm to stiff, reddish brown and buff brown, silty CLAY. OADBY MEMBER		3.50	110.64		D	3.50	Ublow= 45					
					U	4.00						
					D	4.50						
Becoming firm from 5.00m bgl.					D	5.00	N60=13					
										D	6.00	
										U	6.50	
Becoming stiff from 6.50m bgl.					D	7.00	N60=19					
										D	8.00	
										U	9.00	
Becoming firm to stiff from 8.00m bgl.					D	9.50	Ublow= 80					
										U	9.50	
										D	10.00	
Borehole terminated at 10.00m		10.00	104.14									
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was encountered at 1.70m and rose to 1.60m bgl after 20 minutes. Visual or olfactory evidence of contamination was not observed. Co-ordinates and elevations estimated from the topographical survey.							Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading N60 - Corrected SPT N Value G - Gas Monitoring Point					



MEC
Development Technical
Consultants

Mewies Engineering Consultants Ltd
The Old Chapel, Station Road
Hugglescote, Leicestershire
LE67 2GB

Exploratory
Hole ID:

BH03

Sheet 1 of 2

Project:	Land North of Normandy Way	Project No.	28047	Start Date:	11/09/2023	End Date:	11/09/2023	Plant Used:	Cable Percussion Rig
Location:	Hinckley, Leicestershire	Logged By:	DW	Easting and Northing Co-ordinates:		442159.59 295687.55		Elevation (m AOD):	
Client:	Richborough Estates Ltd	Approved By:	DT						

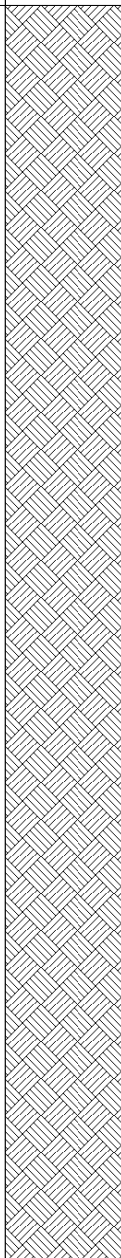
Strata Description	Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill
				Type	Depth			
MADE GROUND: Brown, slightly clayey, silty, slightly gravelly, sand topsoil. Gravel is sub-rounded, fine to medium quartzite and flint.	0.50	116.96		B	0.50	N60=16		
MADE GROUND: Firm, reddish brown and brown, silty, slightly sandy, slightly gravelly clay with brick and charcoal fragments. Gravel is sub-rounded, fine to medium quartzite and charcoal.				D	0.70			
	B	1.20						
	D	1.20						
Firm to stiff, reddish brown and brown, silty, slightly sandy, gravelly CLAY. Gravel is sub-angular to sub-rounded, fine to medium quartzite, flint and siltstone. OADBY MEMBER	1.90	115.56		D	1.90			
				D	2.90	Ublow= 80		
Becoming stiff from 3.00m bgl.				U	3.00			
				D	3.50			
				D	4.10	N60=24		
				U	5.10	Ublow= 70		
				D	5.60			
				D	6.00			
				D	6.40	N60=21	6.40	
Medium dense, reddish brown, silty, slightly gravelly, fine to medium SAND. WOLSTON SAND AND GRAVEL DEPOSITS	6.40	111.06		D	6.55			
				D	7.50			
				B	8.10	N60=15		
				D	8.10			
				D	9.00			
				D	9.60	N60=16		
				D	10.50			
				D	11.10	N60=17		

Remarks:

Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator.
Descriptions based on visual inspection by a Geo-environmental engineer.
Fast ingress of groundwater was encountered at 6.40m and rose to 4.00m bgl after 20 minutes..
Visual or olfactory evidence of contamination was not observed.
Co-ordinates and elevations estimated from the topographical survey.

Key:

B - Bulk Sample
D - Disturbed Sample
ES - Environmental Sample
W - Water Sample
PID - PID Reading
N60 - Corrected SPT N Value
G - Gas Monitoring Point

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		BH04 Sheet 1 of 1						
Project: Land North of Normandy Way		Project No. 28047		Start Date: 11/09/2023		End Date: 11/09/2023		Plant Used: Cable Percussion Rig			
Location: Hinckley, Leicestershire		Logged By: DW		Easting and Northing Co-ordinates: 442399.32 295920.16				Elevation (m AOD): 107.79			
Client: Richborough Estates Ltd		Approved By: DT									
Strata Description		Depth (m)	Level (m AOD)	Legend	Samples		Tests	Groundwater (m)	Backfill		
					Type	Depth					
MADE GROUND: Brown, slightly clayey, silty, slightly gravelly, sand topsoil. Gravel is sub-rounded, fine to medium quartzite and flint.		0.30	107.49		B	0.30	N60=11				
MADE GROUND: Soft to firm, brown mottled grey, silty, sandy, gravelly clay with brick fragments. Gravel is sub-angular to sub-rounded, fine to medium quartzite and flint.		1.20	106.59		D	1.20					
Firm, reddish brown, silty, slightly sandy, gravelly CLAY. Gravel is angular to sub-rounded, fine quartzite, flint and siltstone. OADBY MEMBER					D	1.80	Ublow= 80				
					U	2.00					
					B	2.50	N60=15				
					D	2.50					
					D	3.00	Ublow= 65				
					D	3.60					
					U	4.00					
					D	4.50	Ublow= 70				
					D	5.00					
					U	5.10					
					D	5.60					
					D	6.00	N60=27				
		6.40	101.39		B	6.40					
					D	6.40					
Stiff becoming very stiff, buff brown, silty CLAY. OADBY MEMBER					D	7.50	Ublow= 75				
					U	8.00					
					D	8.50	N60=44				
					D	9.00					
					D	9.50					
Borehole terminated at 10.00m		10.00	97.79								
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed. Co-ordinates and elevations estimated from the topographical survey.							Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading N60 - Corrected SPT N Value G - Gas Monitoring Point				