

Lincs Laboratory

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Ground Investigation Report for A Proposed Residential Development Off Boston Road, Gosberton

Issued

29 March 2022

G44070/HD/22/EM



FS 20705

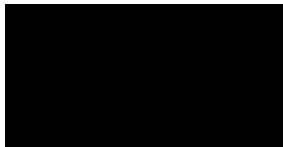


OHS 513836

www.lincolnshire.gov.uk

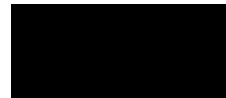
Ground Investigation Report for A Proposed Residential Development Off Boston Road, Gosberton

Reporter:



Huw Davey
Geotechnical Engineer

Reviewer:



Sam Wells
Senior Geotechnical Engineer

Distribution:

Copy 1 (PDF) – Woodgate Developments, Nathan Proctor
Copy (PDF) – File

All technical matters within this report have been undertaken under the guidance of **Sam Wells**. Any enquiry relating to this report should be addressed to **Huw Davey** at Lincs Laboratory.

The samples will be stored for one month after publication of the report. Please inform **Huw Davey** if you wish to have these stored for a longer period.

GROUND INVESTIGATION REPORT FOR A PROPOSED RESIDENTIAL DEVELOPMENT OFF BOSTON ROAD, GOSBERTON

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GROUND INVESTIGATION REPORT FOR A PROPOSED RESIDENTIAL DEVELOPMENT OFF BOSTON ROAD, GOSBERTON

1.0 INTRODUCTION

- 1.1 At the request of Woodgate Developments, Lincs Laboratory has undertaken a ground investigation in accordance with the general principles of BS5930 ⁽¹⁾ at a proposed residential development off Boston Road, Gosberton, Lincolnshire. The purpose of the investigation was to determine the nature of the underlying soils to enable recommendations to be made to aid the design and construction of the proposed access road.
- 1.2 A previous ground investigation was undertaken by Lincs Laboratory on the site, ref G39367. This report focused on infiltration testing for the site.
- 1.3 The proposed development consists of 46 plots of residential property with associated landscaping, private driveways and access roads.
- 1.4 This report is based on data from test results and site records obtained during the ground investigation. There is the possibility of variations in ground conditions that have not been revealed during the ground investigation. It should also be noted that changes in groundwater levels are likely to occur from season to season and that higher groundwater levels may be encountered.

The report is also based on the information given to Lincs Laboratory by the client. Should there be any subsequent alterations to the project's design it will be necessary to check with Lincs Laboratory that the geotechnical assessments and recommendations are still valid.

- 1.5 This report has been prepared for the sole use and reliance of the Client. The report may not be used or relied upon by any unauthorised third party without the written consent of Lincs Laboratory.
- 1.6 This report shall not be reproduced except in full, without the written approval of Lincs Laboratory.

2.0 SITE DESCRIPTION AND GEOLOGY

- 2.1 The site is situated in the south-east of the village of Gosberton, near Spalding, Lincolnshire (Drawing Number 1, Appendix (i)). It consists of two rectangular fields of approximately 1.8 hectares total size (Drawing Number 2, Appendix (i)). The site is bound by Boston Road to the south and existing residential properties in all other directions. Access to the site was via a field entrance off Boston Road.

A drainage ditch crossing the site was present at the time of the works. Water levels were considered normal.

- 2.2 The British Geological Survey 1:50,000 geological sheet for the Spalding area indicates the site to be situated on solid geology of the Kellaways Formation and Oxford Clay Formation. Superficial tidal flat deposits are also indicated on the site ⁽²⁾.

3.0 SITE WORK

- 3.1 On Thursday 10th February 2022, four trial pits (TPs 1 to 4) were excavated using a mechanical backhoe loader to between 1.80 m and 2.10 m below ground level (BGL) in positions selected by Lincs Laboratory. The trial pits were extended below groundwater levels.

Bulk (B) bag samples were taken from each trial pit out of the 0.50 m to 1.00 m margin below the anticipated formation level.

4.0 LABORATORY WORK

- 4.1 Lincs Laboratory is registered with the United Kingdom Accreditation Service, UKAS registration No. 0699. Achieving accreditation means that the testing laboratory has demonstrated that it tests to a high standard, through external audits.
- 4.2 The following tests were completed at the laboratory:
Particle Size Distribution (wet sieve analysis)
Soaked California Bearing Ratio (CBR)
Sulphate Content
pH value

Details of the standards used ⁽³⁾ and the test results are presented in the Laboratory Test Result Report in Appendix (iii).

Lincs Laboratory is accredited for all of the tests undertaken in-house.

5.0 ENGINEERING ASSESSMENT AND RECOMMENDATIONS

5.1 Ground Conditions

The ground investigation confirmed that the anticipated Tidal Flat superficial deposits are present across the site. These were encountered as grey-brown silty clay, clayey silt and silty sand and is typical of the variation seen in these deposits locally. The underlying solid geology was not encountered.

Groundwater was encountered at 1.80 m BGL in TP1 and 1.85 m BGL in TP3. The trial pit logs in Appendix (ii) give the specific details of the encountered soils at each location.

5.2 Sulphate Classification for Concrete

Laboratory water soluble sulphate content testing gave a result of less than 0.10 g/l.

This indicates a Design Sulphate Classification of DS-1 in accordance with BRE Special Digest 1 ⁽⁴⁾. In order to assess an Aggressive Chemical Environment for Concrete (ACEC), the site has been assumed to be natural and the groundwater has been assumed to be mobile in the absence of extensive groundwater monitoring. The corresponding alkaline pH value test result of 8.5, together with the sulphate content values and previous site usage, represents an ACEC classification of AC-1.

The client is advised to refer to the BRE Special Digest 1 ⁽⁴⁾ for construction guidelines for in-situ and pre-cast concrete elements of the construction.

5.3 Road Construction

The ground investigation revealed a weak, cohesive sub-grade. Laboratory soaked CBR test results are presented below.

TP No.	Depth (mBGL)	Moisture Content (%)	Minimum CBR (%)
1	0.50-0.60	26	0.3
2	0.50-0.60	27	0.5
3	0.50-0.60	27	1.6
4	0.70-1.00	26	0.5

For design purposes, it is recommended that a CBR of less than 1.5% is used. A geogrid and membrane will be required.

The client is advised to refer to the relevant chart in the Lincolnshire County Council Development Road and Sustainable Drainage Specification and Construction ⁽⁵⁾ to determine a total minimum construction thickness and for construction guidelines and requirements.

5.4 Observations for Contamination

Arisings obtained during the excavations were examined for visual and olfactory signs of contamination.

The soils encountered in the trial pits did not show any visual or olfactory signs of contamination. Additionally, the surrounding land shows good healthy grass cover and mature trees. Considering all these factors, along with the rural history of the area and the present surrounding land uses, it is not considered that the site is chemically contaminated. Consequently, the risk of contamination associated with constructing and using the site for its intended use as a residential estate is considered to be low. However, as with all developments, the workforce should wear overalls, gloves and boots to minimise contact with soils and water. For example, the presence of water contaminated with Weil's disease (caused by rats) is a small probability and working on many developments increases the overall risk of infection to an individual. Care should be taken if any heavily discoloured or pungent smelling materials are encountered as this could indicate that small amounts of chemicals have been discarded. In the unlikely event of encountering suspicious materials, appropriate advice should be sought.

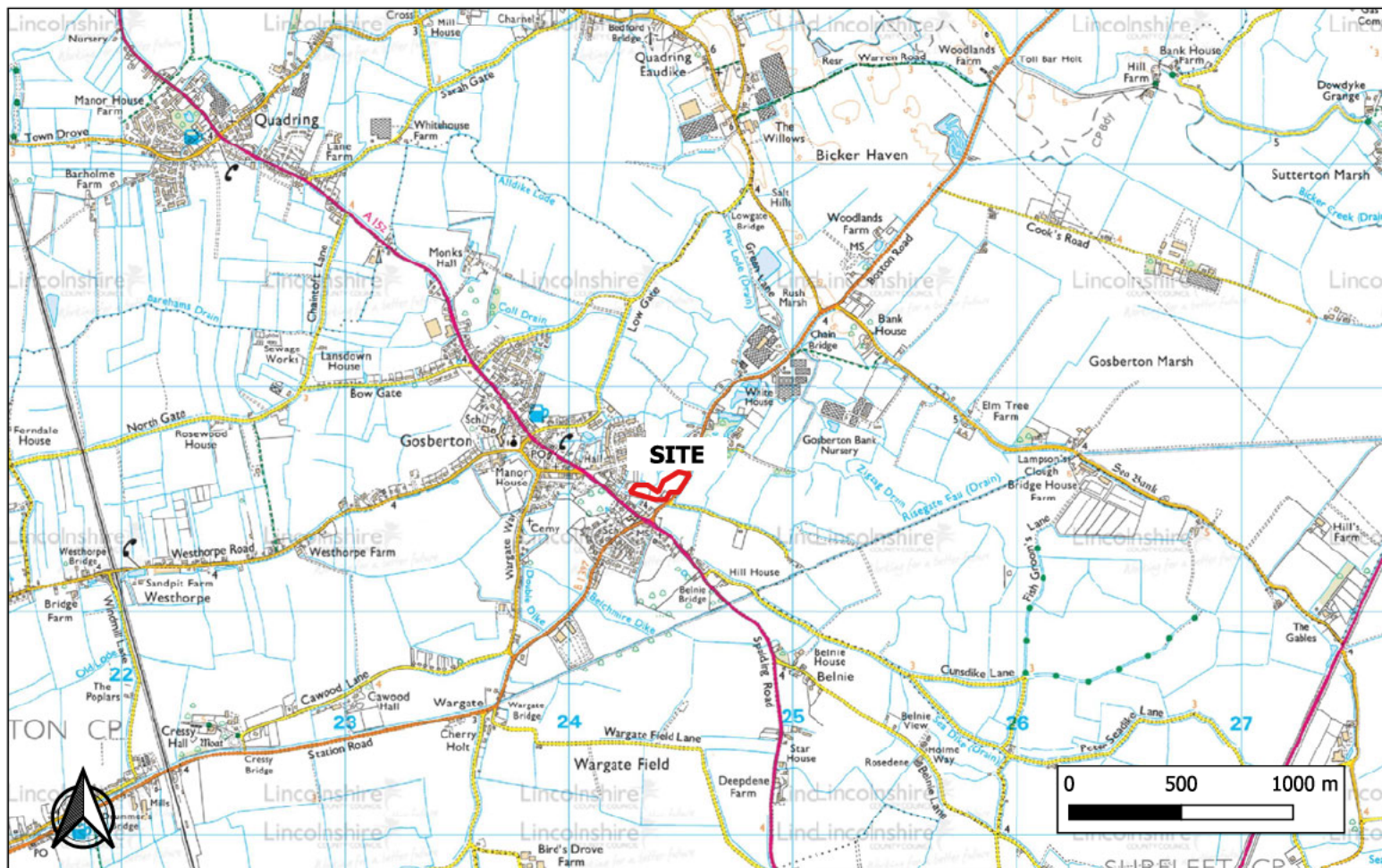
6.0 REFERENCES

- (1) BS 5930: 2015 (+A1:2020). "Code of Practice for Site Investigation". British Standards Institution.
- (2) BGS 1:50,000 Geological Solid and Drift map for the Spalding Area. Sheet 144. Published 1992.
- (3) BS 1377: 1990. "Methods of Test for Soils for Civil Engineering Purposes". British Standards Institution.
- (4) BRE Special Digest 1: "Concrete in Aggressive Ground". Third Edition, Published 2005. BRE Construction Division.
- (5) "Development Road and Sustainable Drainage Specification and Construction ". Lincolnshire County Council. May 2021. (Version 4.3)

7.0 APPENDICES

APPENDIX (i)

DRAWINGS



Site off Boston Road, Gosberton Site Location Plan

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Produced by HD (Lincs Lab) Mar 2022

Site off Boston Road, Gosberton Trial Pi Location Plan

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APPENDIX (ii)

TRIAL PIT LOGS

TPs 1 to 4



Trial Pit Log

Lincoln Laboratory
St Georges Lane
Riseholme
LN2 2LQ

TP Number
TP1

Project Name: Boston Road, Gosberton

Client: Woodgate Developments

Date: 10/02/2022

Location: Off Boston Road

Project No. : 44070

JCB Contractor: J.E.Spence

Equipment: JCB 3CX

Location Number
TP1

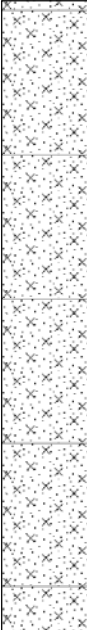
Location Type
TP

Level

Logged By
HD

Scale
1:16

Page Number
Sheet 1 of 1

Water Strikes	Sample and In Situ/Lab Testing							Depth (m)	Legend	Stratum Description	
	Depth (m)	Type	Atterberg Limits			CBR %	Shear Strength				
			PL %	LL %	PI %						
▼	0.50 - 0.60	B				(Top) 0.5 (Base) 0.3		0.35		Soft, dark brown clayey sandy TOPSOIL	1
										Soft, brown clayey SILT with pockets of brown silty sand (TFD)	
										Brown, fine grained silty SAND (TFD)	
								1.80		End of Trial Pit at 1.800m	2
											3

Dimensions		Trench Support and Comment				Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks		Date	Rate	Remarks

Remarks



Trial Pit Log

Lincs Laboratory
St Georges Lane
Riseholme
LN2 2LQ

TP Number
TP2

Project Name: Boston Road, Gosberton				Client: Woodgate Developments				Date: 10/02/2022						
Location: Off Boston Road														
Project No. : 44070				JCB Contractor: J.E.Spence				Equipment: JCB 3CX						
Location Number TP2		Location Type TP		Level		Logged By HD		Scale 1:16		Page Number Sheet 1 of 1				
Water Strikes	Sample and In Situ/Lab Testing							Depth (m)	Legend	Stratum Description				
	Depth (m)	Type	Atterberg Limits			CBR %	Shear Strength							
PL %			LL %	PI %										
	0.50 - 0.60	B				(Top) 0.7 (Base) 0.5		0.30		Soft, dark brown clayey sandy TOPSOIL				
								2.00		Soft, grey-brown silty CLAY with some clayey sand layers (TFD)		1		
										End of Trial Pit at 2.000m		2		
												3		
Dimensions			Trench Support and Comment									Pumping Data		
Pit Length		Pit Width		Pit Stability		Shoring Used		Remarks				Date	Rate	Remarks

Remarks



Trial Pit Log

Lincoln Laboratory
St Georges Lane
Riseholme
LN2 2LQ

TP Number
TP3

Project Name: Boston Road, Gosberton				Client: Woodgate Developments				Date: 10/02/2022			
Location: Off Boston Road											
Project No. : 44070				JCB Contractor: J.E.Spence				Equipment: JCB 3CX			
Location Number TP3		Location Type TP		Level		Logged By HD		Scale 1:16		Page Number Sheet 1 of 1	
Water Strikes	Sample and In Situ/Lab Testing							Depth (m)	Legend	Stratum Description	
	Depth (m)	Type	Atterberg Limits			CBR %	Shear Strength				
PL %			LL %	PI %							
	0.50 - 0.60	B				(Top) 1.6 (Base) 2.0		0.35		Soft, dark brown clayey sandy TOPSOIL	1
								1.00		Soft, grey-brown silty CLAY (TFD)	
									2.10		
										End of Trial Pit at 2.100m	2
											3

Dimensions		Trench Support and Comment				Pumping Data		
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks		Date	Rate	Remarks

Remarks



Trial Pit Log

Lincs Laboratory
St Georges Lane
Riseholme
LN2 2LQ

TP Number
TP4

Project Name: Boston Road, Gosberton				Client: Woodgate Developments				Date: 10/02/2022					
Location: Off Boston Road													
Project No. : 44070				JCB Contractor: J.E.Spen				Equipment: JCB 3CX					
Location Number TP4		Location Type TP		Level		Logged By		Scale 1:16		Page Number Sheet 1 of 1			
Water Strikes	Sample and In Situ/Lab Testing							Depth (m)	Legend	Stratum Description			
	Depth (m)	Type	Atterberg Limits			CBR %	Shear Strength						
PL %			LL %	PI %									
	0.70 - 1.00	B				(Top) 0.8 (Base) 0.5		0.30		Soft, dark brown clayey sandy TOPSOIL		1	
									0.70		Soft, grey-brown silty CLAY (TFD)		
										1.85			Grey-brown silty clayey SAND (TFD)
▼										End of Trial Pit at 1.850m		2	
												3	
Dimensions			Trench Support and Comment						Pumping Data				
Pit Length	Pit Width	Pit Stability	Shoring Used	Remarks				Date	Rate	Remarks			
Remarks													

GROUND INVESTIGATION REPORT FOR A PROPOSED RESIDENTIAL DEVELOPMENT OFF BOSTON ROAD, GOSBERTON

NOTES ON SAMPLE DESCRIPTIONS AND SYMBOLS

1. Sample Descriptions

Sample descriptions are in accordance with BS 5930: 2015 Code of Practice for Site Investigations ⁽¹⁾ but with the following additional terms also being used.

rare	intermittent appearance less than 2%
occasional	intermittent appearance 2% to 5%
with a trace	less than 10%
with a little or with frequent	10% to 25%
with some or with numerous	25% to 40%
and	about equal

2. Geology

(TFD) Tidal Flat Deposits

APPENDIX (iii)

LABORATORY TEST REPORT



Lincs Laboratory, St Georges Lane,
Riseholme, Lincoln, LN2 2LQ

Tel: (01522) 530355
Email: Lincslab@lincolnshire.gov.uk

TO: Nathan Proctor
Woodgate Developments
Cedar House
Sommer Close
Thorney
Peterborough
PE6 0FF

REPORT NO: 80981
JOB NO: 44070
DATE: 28 March 2022

PROJECT TITLE: BOSTON ROAD, GOSBERTON
WORK UNDERTAKEN: ANALYSIS OF SOILS

Authorising Signature:

(R. Broughton; Supervisor - Laboratory Testing)

Notes:

1. This report is factual and only relates to the items tested.
2. Advice on the interpretation of these results is available from Lincs Laboratory Consultancy Staff. Opinions and interpretations are outside the scope of our UKAS/ISO 17025 accreditation.
3. Any samples or their residues will normally be kept for four weeks after the publication of this report.
4. Tests marked 'UKAS accredited' in this report are listed in our UKAS accreditation schedule bearing No.0699.
5. This report shall not be reproduced except in full, without written approval of Lincs Laboratory.

Distribution:

- √1 - Client (Via Huw Davey)
- 1 - Lab File



0699



Lincs Laboratory St Georges Lane, Riseholme, Lincoln LN2 2LQ

Tel: (01522) 530355

Email: Lincslab@lincolnshire.gov.uk



0699

REPORT: 80981
JOB NO: 44070
DATE: 28 March 2022

PROJECT TITLE: BOSTON ROAD, GOSBERTON
WORK UNDERTAKEN: CALIFORNIA BEARING RATIO TEST RESULTS

Lab Sample No:	BH/TP (No)	Sample (type)	Depth (m)	Density			Moisture Content		CBR Value			Retained 20mm (%)	Swell (mm)
				Bulk (Mg/m ³)	Soaked (Mg/m ³)	Dry (Mg/m ³)	Top (%)	Base (%)	Top (%)	Base (%)	Mean (%)		
S145-22	TP1	B	0.50 – 0.60	1.90	1.87	1.49	26	26	0.5	0.3	N/A	0.0	0.00
S146-22	TP2	B	0.50 – 0.60	1.94	1.94	1.53	26	27	0.7	0.5	0.6	0.0	0.00
S147-22	TP3	B	0.50 – 0.60	1.94	1.95	1.55	27	26	1.6	2.0	1.8	0.0	0.05
S148-22	TP4	B	0.70 – 1.00	1.90	1.88	1.49	25	26	0.8	0.5	N/A	0.0	0.00

Notes:

- i) Sampler : Lincs Lab
- ii) Sampling Procedure : BS 5930:2015 (Not UKAS Accredited)
- iii) Date Received : 10.02.22
- iv) Date Tested : 18.02.22 – 01.03.22
- v) Test Procedure : BS 1377:Pt 4:1990 Cl 7.4, Surcharge Mass: 13kg (UKAS Accredited)
- Method of Compaction : Dynamic (2.5kg rammer) BS1377:Part 4:1990 CL 7.2.4.4 Method 5 (UKAS Accredited)
- Method of Soaking : BS1377:Part 4:1990 Cl 7.3 (UKAS Accredited)
- vi) The samples were prepared in accordance with BS 1377:Part 1:1990 (UKAS Accredited)
- vii) B = Bulk
- viii) Samples S145-22, S146-22 & S148-22 were tested in a soaked condition for 96 hours.
- ix) Sample S147-22 was tested in a soaked condition for 168 hours.
- x) Water was found on the top of sample S145-22 after 0.5 hours. Water was found on the top of sample S148-22 after 0.25 hours. Samples S146-22 and S147-22 were flooded after 72 hours.
- xi) Copies of the force penetration curves are available on request.
- xii) Copies of the swell measurement curves are available on request.
- xiii) The test method stated for Moisture Content has been superseded by BS EN ISO 17892-1:2014.

Lincs Laboratory

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Tel: (01522) 530355 Email: lincslab@lincolnshire.gov.uk



0699

REPORT: 80981
JOB NO: 44070
DATE: 28 March 2022

PROJECT TITLE: BOSTON ROAD, GOSBERTON
WORK UNDERTAKEN: PARTICLE SIZE DISTRIBUTION
(WET GRADING ANALYSIS) TEST RESULTS

Lab Sample No:	BH/TP (No)	Sample (type)	Depth (m)	Sieve Size (mm)	Passing (%)
S145-22	TP1	B	0.50 - 0.60	20	100
				2.00	100
				1.18	100
				0.600	100
				0.425	100
				0.300	100
				0.212	100
				0.150	99
				0.063	77

Notes:

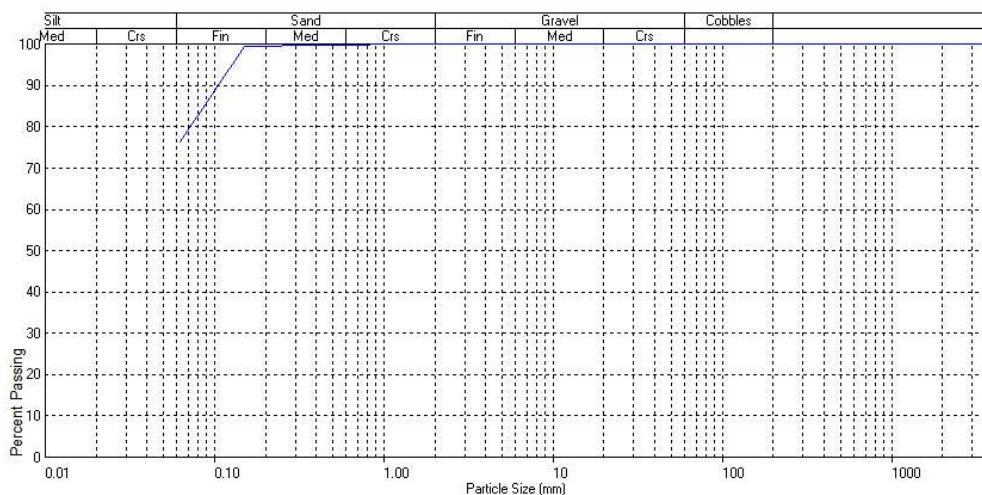
- i) Sampler : Lincs Laboratory
- ii) Sampling Procedure : BS 5930:2015 (Not UKAS Accredited)
- iii) Date Received : 10.02.22
- iv) Date Tested : 21.02.22 – 25.02.22
- v) Test Procedure : BS 1377:Part 2:1990 CI 9.2 (UKAS Accredited)
- vi) The sample was prepared in accordance with BS 1377:Part 1:1990 (UKAS Accredited)
- vii) B = Bulk



Lincs Laboratory

St Georges Lane
Riseholme
Lincoln LN2 2LQ
Tel: 01522 530355

Particle Size Distribution ()



Job Name: Boston Road, Gosberton

Job Location: 44070

Sample Ref: S145-22

Sample Location: TP1 at 0.50-0.60m

Date Tested: 25/02/2022

Drawing No. 1

LAB REPORT No. 80981

Printed 29/03/2022

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Lincs Laboratory

St Georges Lane, Riseholme, Lincoln, LN2 2LQ
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0699

REPORT: 80981
JOB NO: 44070
DATE: 28 March 2022

PROJECT TITLE: BOSTON ROAD, GOSBERTON
WORK UNDERTAKEN: PARTICLE SIZE DISTRIBUTION
(WET GRADING ANALYSIS) TEST RESULTS

Lab Sample No:	BH/TP (No)	Sample (type)	Depth (m)	Sieve Size (mm)	Passing (%)
S147-22	TP3	B	0.50 - 0.60	20	100
				3.35	100
				2.00	100
				1.18	100
				0.600	100
				0.425	100
				0.300	100
				0.212	99
				0.150	99
				0.063	78

Notes:

- i) Sampler : Lincs Laboratory
- ii) Sampling Procedure : BS 5930:2015 (Not UKAS Accredited)
- iii) Date Received : 10.02.22
- iv) Date Tested : 21.02.22 – 25.02.22
- v) Test Procedure : BS 1377:Part 2:1990 CI 9.2 (UKAS Accredited)
- vi) The sample was prepared in accordance with BS 1377:Part 1:1990 (UKAS Accredited)
- vii) B = Bulk

Page 6 of 12



Tel: (01522) 530355
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St Georges Lane
Riseholme
Lincoln
LN2 2LQ

REPORT: 80981
JOB NO: 44070
DATE: 28 March 2022

PROJECT TITLE: BOSTON ROAD, GOSBERTON
WORK UNDERTAKEN: ANALYSIS OF GROUND INVESTIGATION SAMPLES

Lab Sample No:	BH/TP No:	Sample Type	Depth (m)
S145-22	TP1	B	0.50 – 0.60
S147-22	TP3	B	0.50 – 0.60

SAMPLE DETAILS:

Sample Type:	B = Bulk	Date Received:	10.02.22
Sampler:	Lincs Laboratory	Date Tested:	25.02.22 – 11.03.22
Sampling Procedure:	BS 5930:2015 (Not UKAS Accredited)		

REMARKS:

The above samples were sub-contracted to two UKAS accredited laboratories which are accredited for the tests as detailed in their reports. A copy of their reports can be found on pages 8 to 12 of this report.



Nicholls Colton Group
7 - 11 Harding Street
Leicester
LE1 4DH

Lincs Lab
St Georges Lane
Riseholme
LN2 2LQ

Analytical Test Report: L22/01096/LIL - 22-24479

Your Project Reference:	44070 Boston Road Gosberton		
Your Order Number:	80338417	Testing Received / Instructed:	25/02/2022 / 25/02/2022
Report Issue Number:	1	Sample Tested:	25/02 to 11/03/2022
Samples Analysed:	2 soil samples	Report issued:	11/03/2022

Signed

James Gane
Data Manager
Nicholls Colton Group

Notes:

Samples will be retained for 14 days after issue of this report unless otherwise requested.

The results included within the report are representative of the samples submitted for analysis.

Some information required by BS1377 is not included in the report. The information will be provided if requested.

A certificate of sampling was not supplied

Samples were supplied by customer, results apply to the samples as received.

Within the report any information provided by the client is identified with a 'H'

Where specification limits are included these are for guidance only. Where a measured value has been highlighted this is not implying acceptance or failure and certainty of measurement values have not been taken into account.

Uncertainty of measurement values are available on request.

Accreditation Key

UKAS = UKAS Accreditation, u = Unaccredited

Date of Issue 10/12/2020

Owned by Emily Blissett - Commercial Reporting Supervisor

Authorised by Lee Harbottle - GCM Operations Manager

L:\DATA\REPORTS\LIN163\L22-01096-LIL - 22-24479.XLSM\Cover Sheet



Nicholls Colton Group
7 - 11 Harding Street
Leicester
LE1 4DH

L22/01096/LIL - 22-24479

Project Reference - 44070 Boston Road Gosberton

Analytical Test Results

NC Reference		219732	219733
Client Sample Reference		S145-21	S147-21
Reference No.		TP1	TP3
Location (m)		0.50-0.60	0.50-0.60
Supplier/Source		Site	Site
Sample Type		B	B
Date of Sampling		-	-
Sample Description		Brown clayey sandy silt with rare organic matter	Brown clayey sandy silt with rare organic matter
	Units Accreditation		
1377 Determinations			
pH Value	(pH Units) UKAS	8.5	8.5
Water soluble sulphate content (as SO ₃)	(g/l) UKAS	< 0.1	< 0.1
1377 Sample Preparation - % of material passing 2mm test sieve		100	100



Nicholls Colton Group
7 - 11 Harding Street
Leicester
LE1 4DH

L22/01096/LIL - 22-24479

Project Reference - 44070 Boston Road Gosberton

Analysis Methodologies

Test Title	Details and Test method used
BS 1377 Sulphate	1. Sample preparation was in accordance with BS 1377 : Part 1 : 2016. 2. Sulphate testing was in accordance with BS 1377 : Part 3 : 2018 + A1: 2021 Clause 7. 3. Sulphate content as SO₄ has been calculated by multiplying the sulphate content as SO₃ by 1.2. BS 1377 : Part 3 : 1990 does not require SO₄ figures to be reported. 4. Some information required by BS 1377 has not been reported. This information is available on request.
BS1377 pH Value	pH testing was in accordance with BS 1377 : Part 3 : 2018 + A1: 2021 Clause 12

Laboratory Report	DNR-97892	Contract Sample No	DN4391/1	 Construction Testing Solutions Bootham Lane Industrial Estate Dunscroft Doncaster DN7 4JU Tel: (01302) 352652 Web: www.constructiontesting.co.uk Email: enquiries@constructiontesting.co.uk								
Report Date	24/03/2022	Clients Reference	DN4391/1									
Nichols Colton 7-11 Harding Street Leicester LE1 4DH 44070 Boston Road - Gosberton	Material Description	Light Brown Very Silty Clay										
	Date Sampled	03/03/2022										
	Sampling Plan	Client Specification										
	Source	Not Stated										
	Supplier	Not Stated										
	Sampled By	CTS										
	Sampling Environment	Not Stated										
	Sample Type	Bulk										
Location in sample	N/A		Date Received	03/03/2022								
Sample Location	Not Stated		Date Tests Completed	11/03/2022								
TEST REPORT												
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Template Version: 1.6 Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. Results relate only to the sample(s) as received. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The laboratory does not apply a conformity statement to test reports as standard, unless specifically requested by the customer.												
Authorised Signatory  H Daniels – Laboratory Supervisor												

** END OF REPORT **

Construction Testing Solutions Ltd - Company No. 05998333

Laboratory Report	DNR-97893	Contract Sample No	DN4391/2	 Construction Testing Solutions Bootham Lane Industrial Estate Dunscroft Doncaster DN7 4JU Tel: (01302) 352652 Web: www.constructiontesting.co.uk Email: enquiries@constructiontesting.co.uk								
Report Date	24/03/2022	Clients Reference	DN4391/2									
Nichols Colton 7-11 Harding Street Leicester LE1 4DH 44070 Boston Road - Gosberton	Material Description	Light Brown Very Silty Clay										
	Date Sampled	03/03/2022										
	Sampling Plan	Client Specification										
	Source	Not Stated										
	Supplier	Not Stated										
	Sampled By	CTS										
	Sampling Environment	Not Stated										
	Sample Type	Bulk										
Location in sample	N/A		Date Received	03/03/2022								
Sample Location	Not Stated		Date Tests Completed	11/03/2022								
TEST REPORT												
Determination of Particle Size Distribution (Hydrometer Method) Tested in Accordance with BS 1377: Part 2: 1990 Clause 9.5 Sample prepared in Accordance with BS 1377: Part 1: 2016 clause 8.3.4(a) Pretreatment for organic matter with hydrogen peroxide was not required.												
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** END OF REPORT **

Construction Testing Solutions Ltd - Company No. 05998333