

Site Details:

443987, 291578

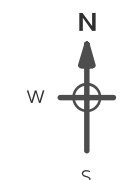
Client Ref: 23046-Bullfurlong_Ln-Burbage-3458G
Report Ref: GS-3SD-GX5-UUF-4SV
Grid Ref: 444113, 291640

Map Name: County Series

Map date: 1886

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1886
 Revised 1886
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1886
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1886
 Revised 1886
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1886
 Revised 1886
 Edition N/A
 Copyright N/A
 Levelled N/A

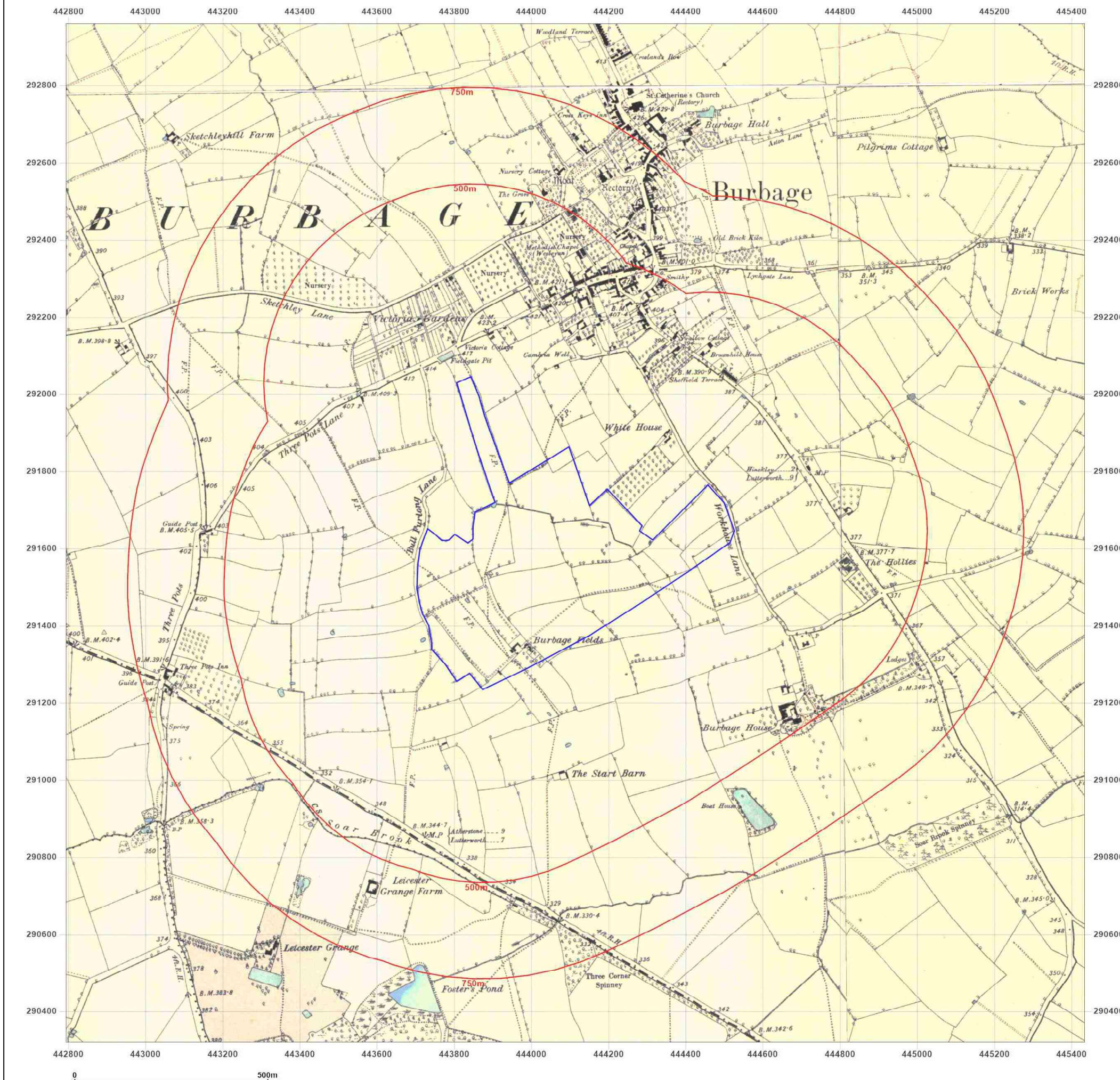


Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 17 May 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

443987, 291578

Client Ref: 23046-Bullfurlong_Ln-Burbage-3458G
Report Ref: GS-3SD-GX5-UUF-4SV
Grid Ref: 444113, 291640

Map Name: County Series

Map date: 1901-1904

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1887
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1886
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1886
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

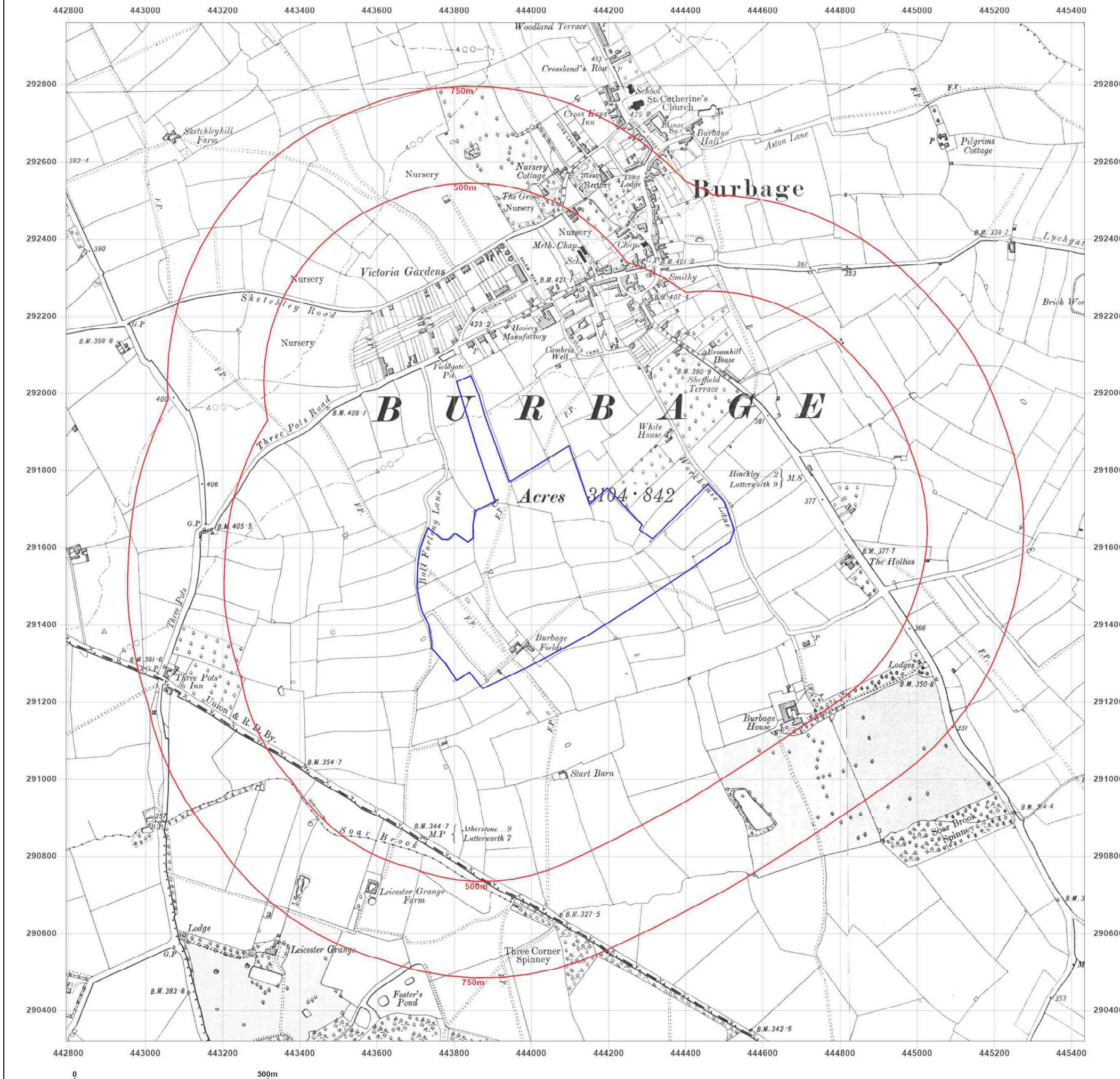


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 17 May 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

443987, 291578

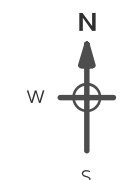
Client Ref: 23046-Bullfurlong_Ln-Burbage-3458G
Report Ref: GS-3SD-GX5-UUF-4SV
Grid Ref: 444113, 291640

Map Name: County Series

Map date: 1902-1904

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1886
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

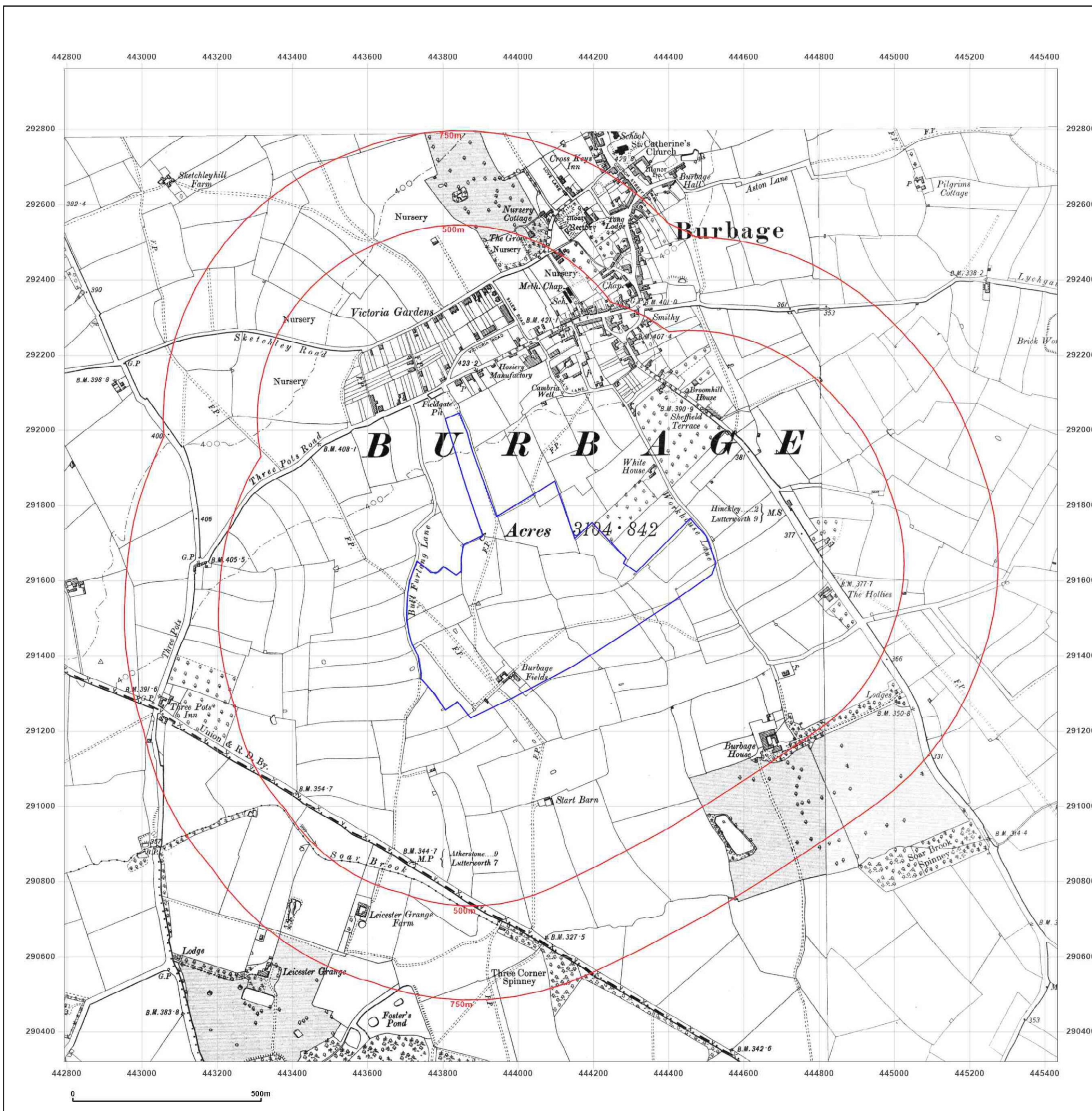


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 17 May 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

443987, 291578

Client Ref: 23046-Bullfurlong_Ln-Burbage-3458G
Report Ref: GS-3SD-GX5-UUF-4SV
Grid Ref: 444113, 291640

Map Name: County Series

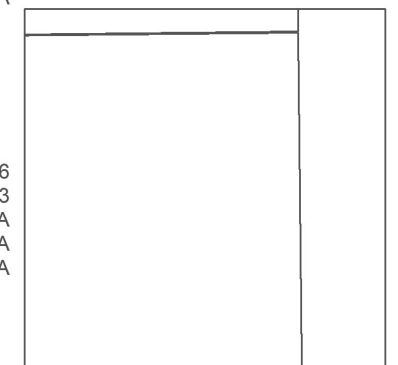
Map date: 1923

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1886
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1886
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A

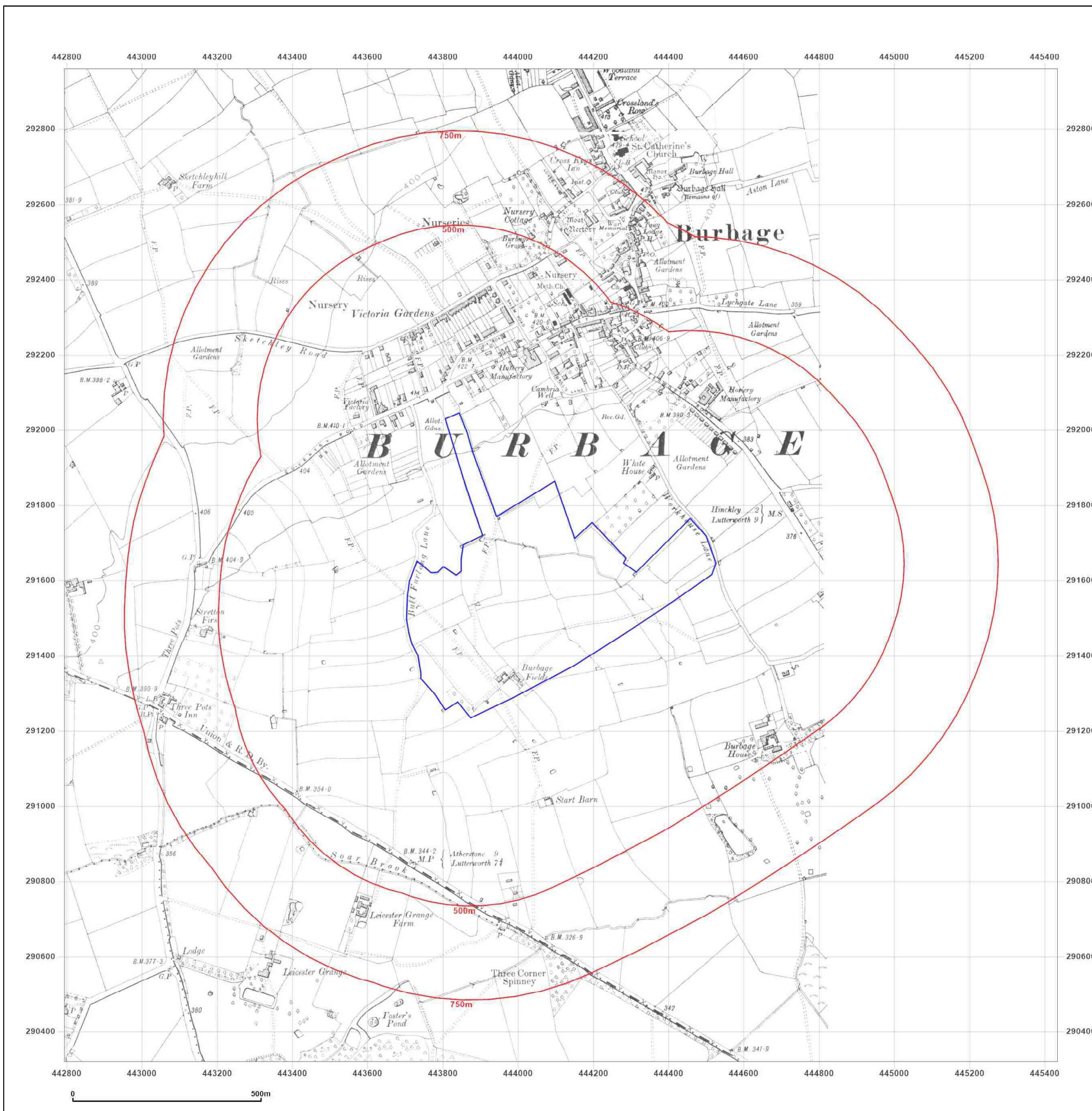


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 17 May 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

443987, 291578

Client Ref: 23046-Bullfurlong_Ln-Burbage-3458G
Report Ref: GS-3SD-GX5-UUF-4SV
Grid Ref: 444113, 291640

Map Name: County Series

Map date: 1925

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1886
Revised 1923
Edition 1925
Copyright N/A
Levelled 1923

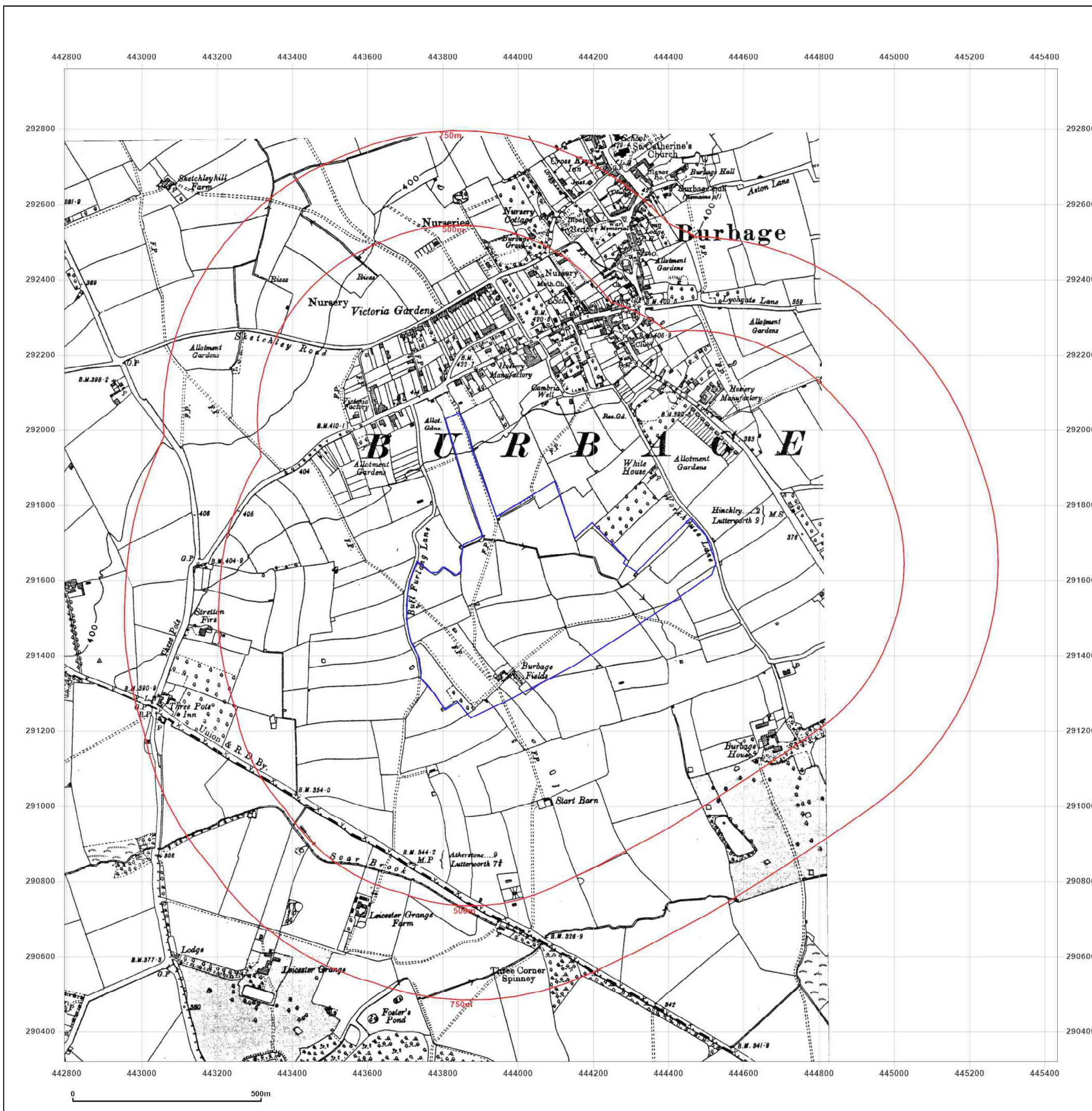


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 17 May 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

443987, 291578

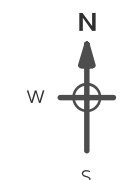
Client Ref: 23046-Bullfurlong_Ln-Burbage-3458G
Report Ref: GS-3SD-GX5-UUF-4SV
Grid Ref: 444113, 291640

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1886
 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1886
 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled N/A

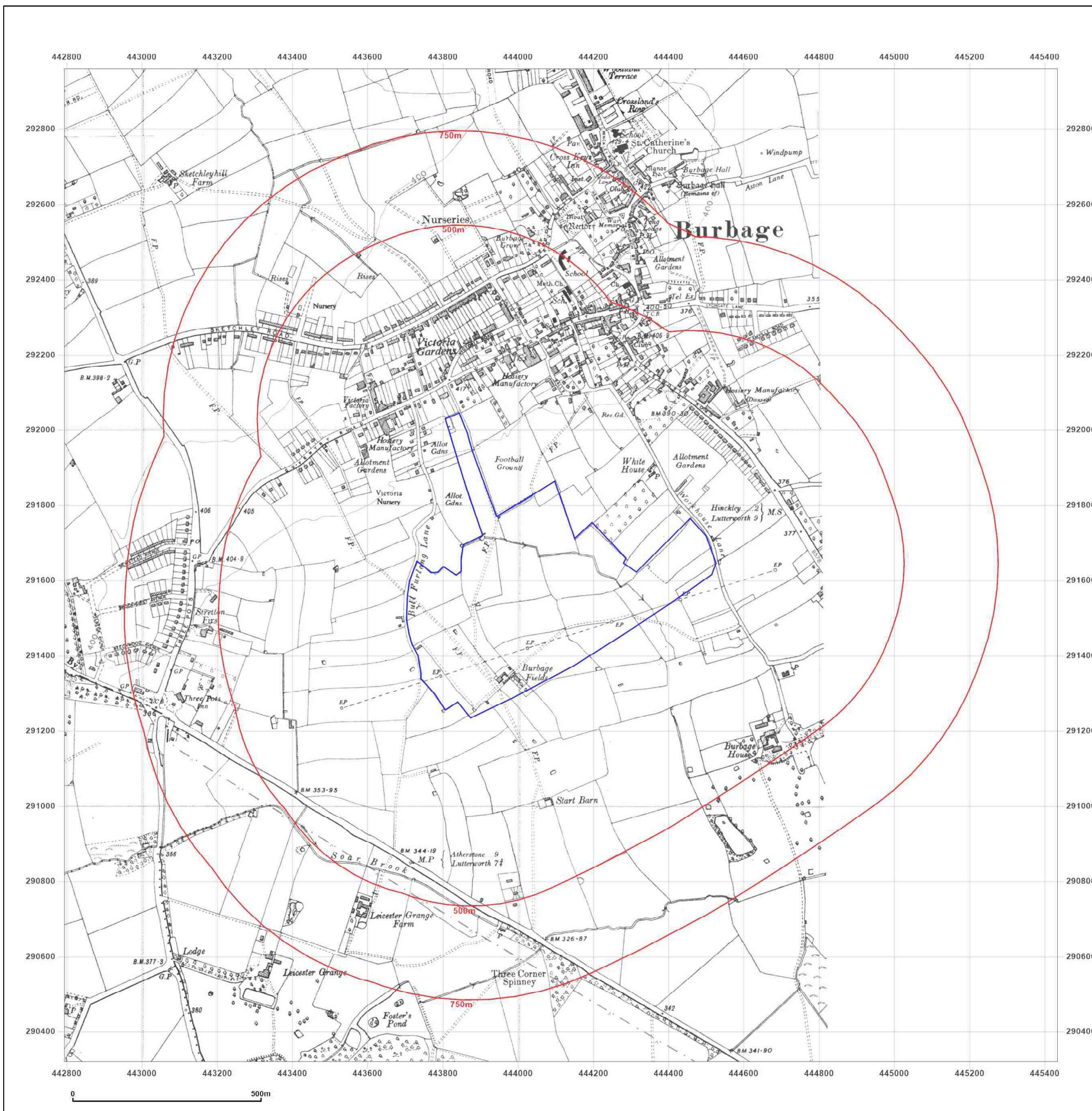


Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 17 May 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

443987, 291578

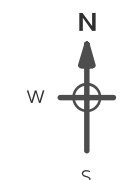
Client Ref: 23046-Bullfurlong_Ln-Burbage-3458G
Report Ref: GS-3SD-GX5-UUF-4SV
Grid Ref: 444113, 291640

Map Name: Provisional

Map date: 1950-1955

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised 1954
Edition 1955
Copyright N/A
Levelled N/A

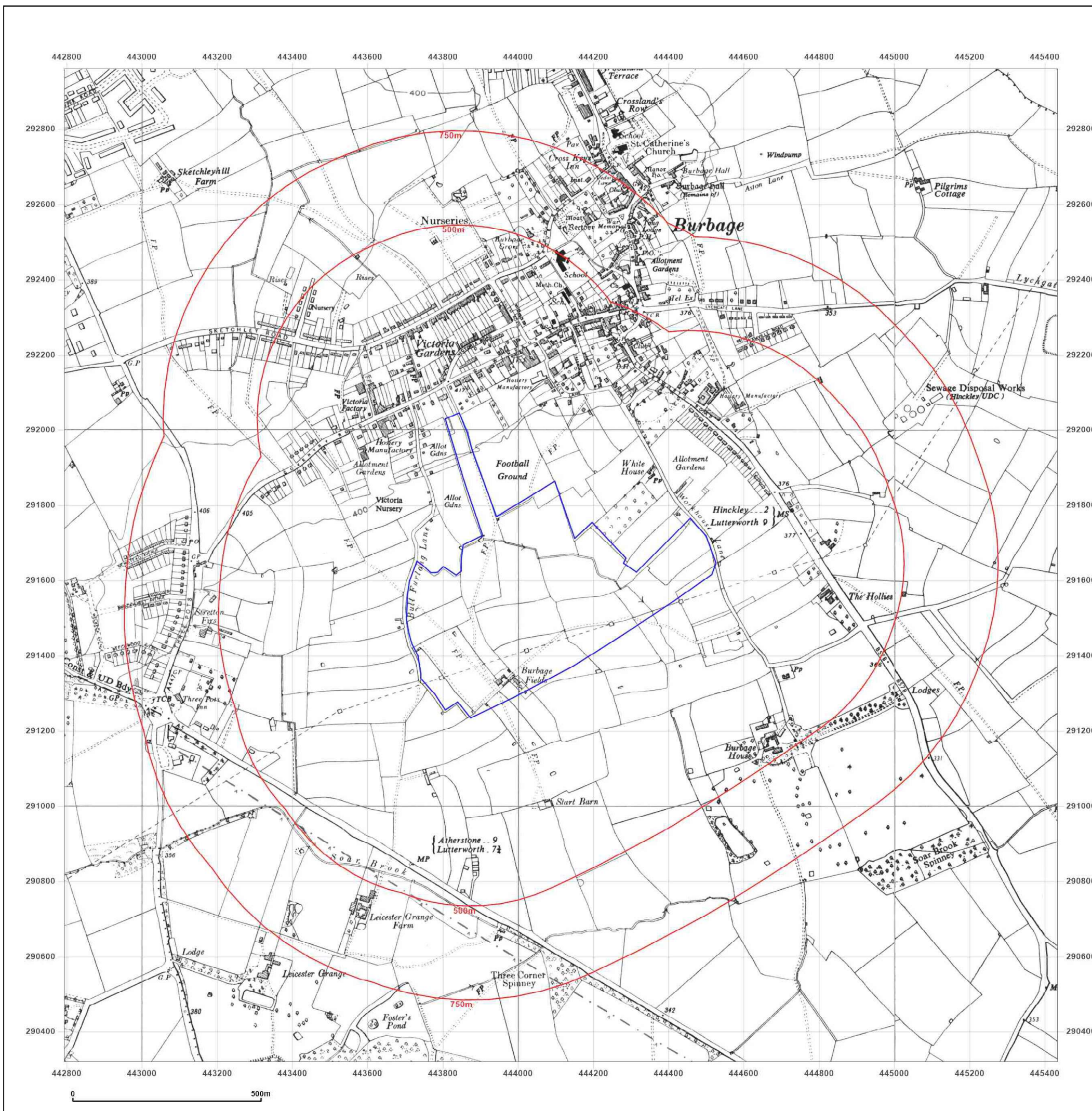


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 17 May 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

443987, 291578

Client Ref: 23046-Bullfurlong_Ln-Burbage-3458G
Report Ref: GS-3SD-GX5-UUF-4SV
Grid Ref: 444113, 291640

Map Name: Provisional

Map date: 1968

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

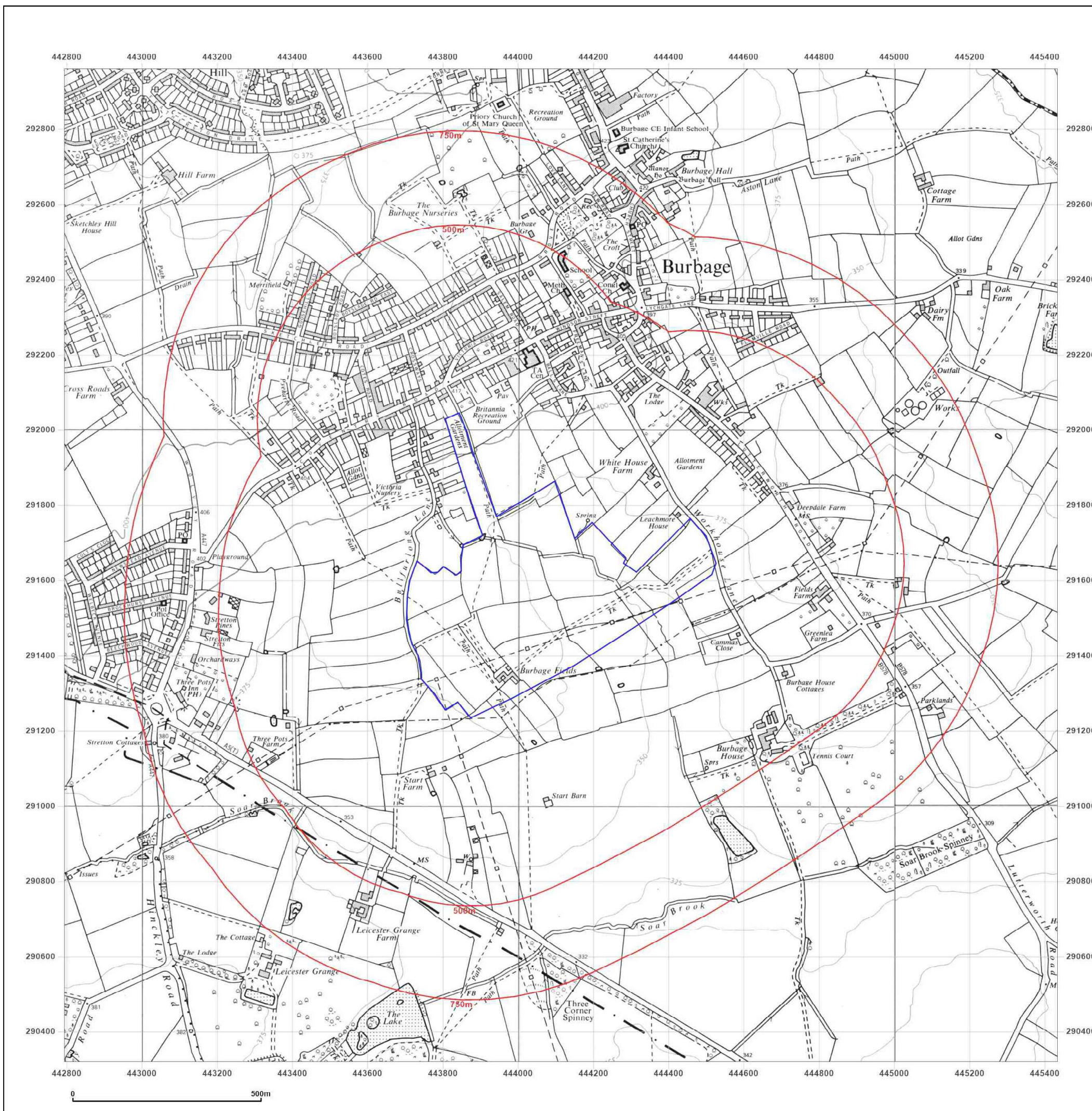


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 17 May 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

443987, 291578

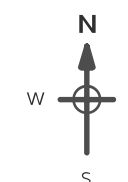
Client Ref: 23046-Bullfurlong_Ln-Burbage-3458G
Report Ref: GS-3SD-GX5-UUF-4SV
Grid Ref: 444113, 291640

Map Name: National Grid

Map date: 1977-1979

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1975
 Revised 1977
 Edition N/A
 Copyright 1977
 Levelled 1965

Surveyed 1976
 Revised 1979
 Edition N/A
 Copyright 1979
 Levelled 1965

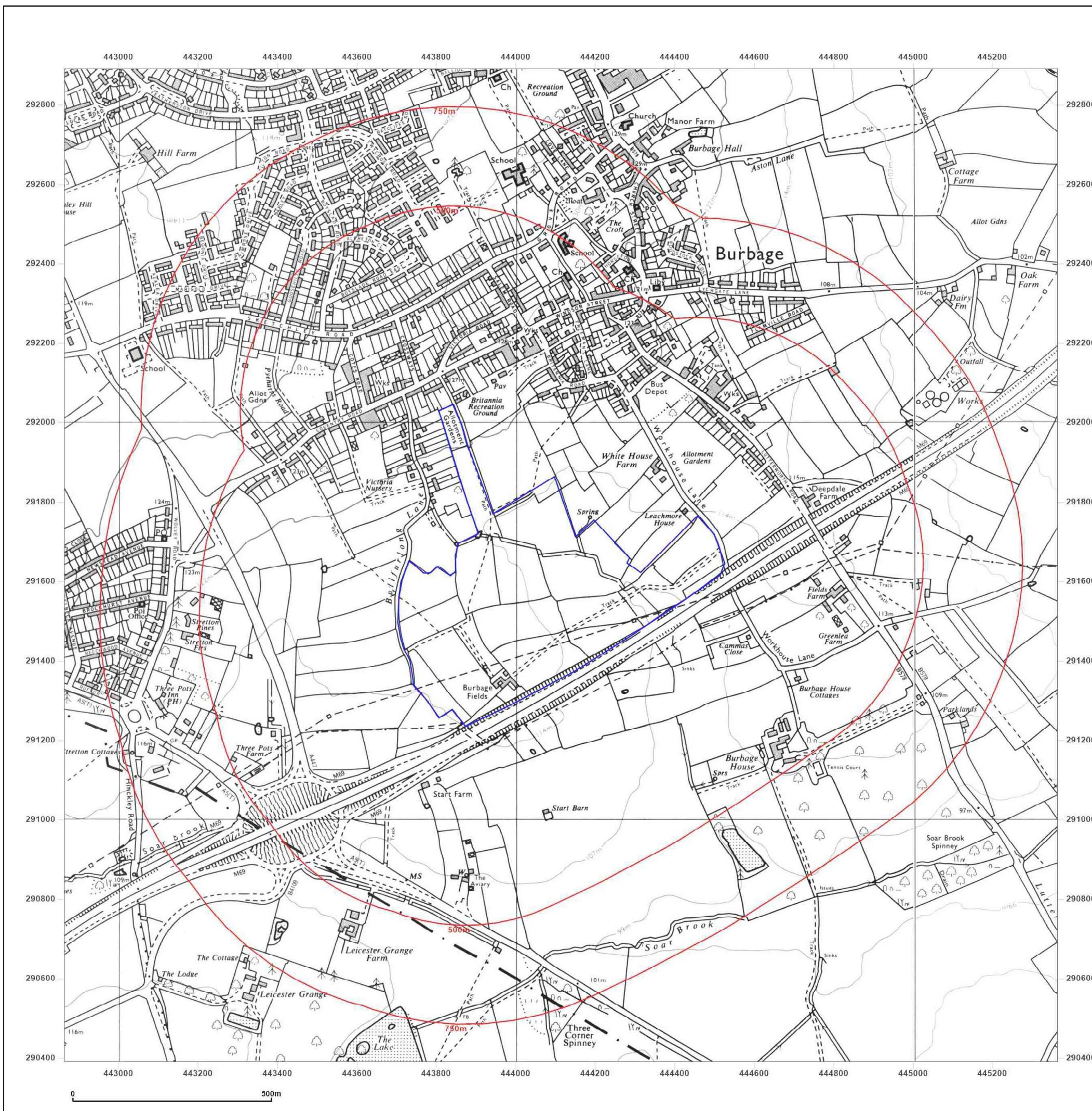


Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 17 May 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

443987, 291578

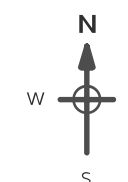
Client Ref: 23046-Bullfurlong_Ln-Burbage-3458G
Report Ref: GS-3SD-GX5-UUF-4SV
Grid Ref: 444113, 291640

Map Name: National Grid

Map date: 1983

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1982
Revised 1983
Edition N/A
Copyright N/A
Levelled N/A

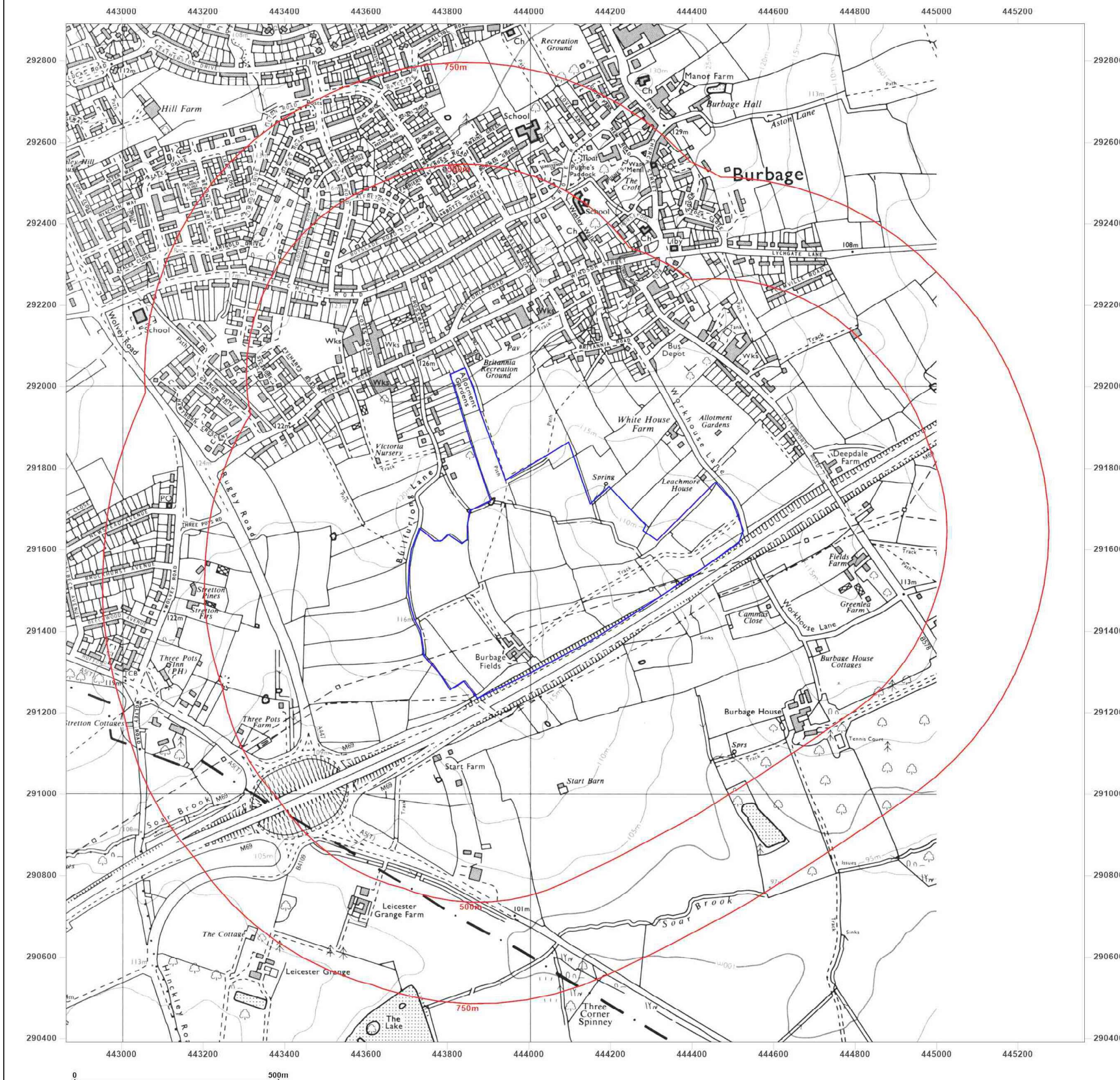


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 17 May 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

443987, 291578

Client Ref: 23046-Bullfurlong_Ln-Burbage-3458G
Report Ref: GS-3SD-GX5-UUF-4SV
Grid Ref: 444113, 291640

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



2001

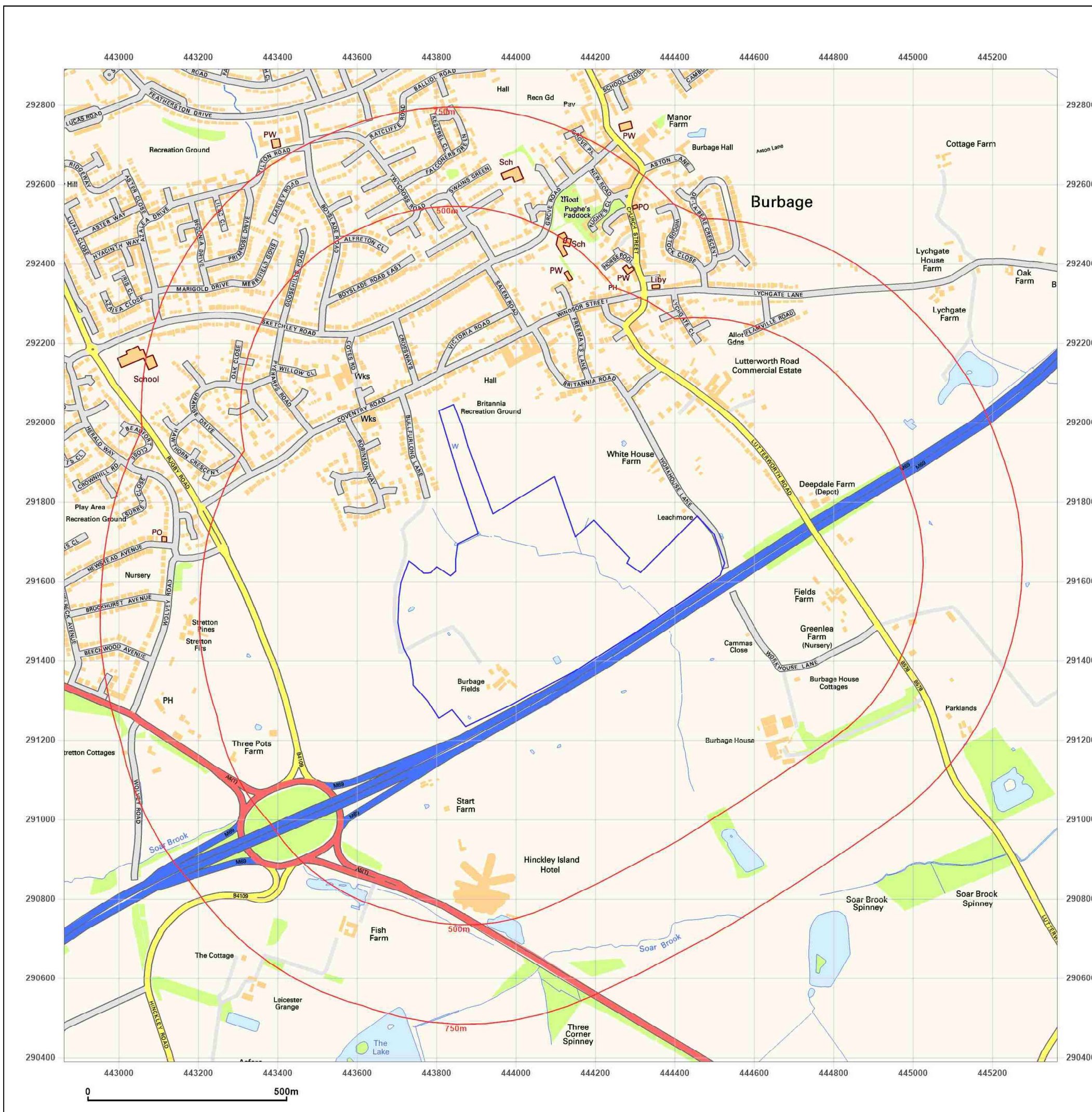


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 17 May 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

443987, 291578

Client Ref: 23046-Bullfurlong_Ln-Burbage-3458G
Report Ref: GS-3SD-GX5-UUF-4SV
Grid Ref: 444113, 291640

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010

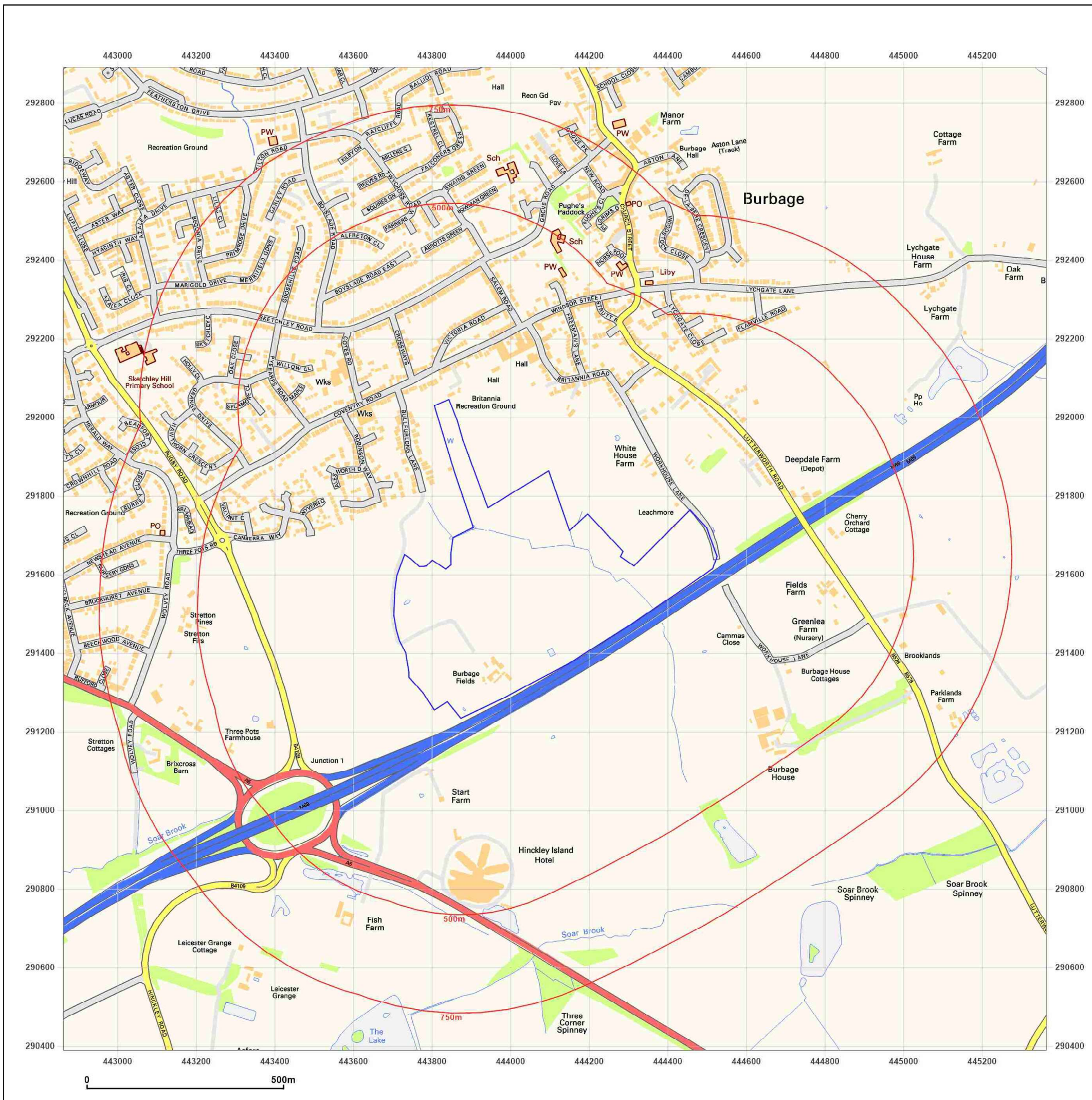


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 17 May 2023

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



APPENDIX 5
Local Authority Response



Bill Cullen MBA (ISM), BA (Hons) MRTPI
Chief Executive



**Hinckley & Bosworth
Borough Council**

Please ask for: Mr G Rawdon
Direct Dial: 01455 255684
My Ref: 23/34969/LQS
Date: 13 June 2023
Email: esadmin@hinckley-bosworth.gov.uk

Mrs Lindsey Geddes
Travis Baker

Dear Mrs Geddes

Re: Land Quality Search Bullfurlong Lane Burbage Leicestershire

I refer to your email of 08 June 2023 regarding the above and can confirm the following information for the site. I will answer your questions in turn:

Pollution incidents on or within the vicinity of the site

Environmental Health (Pollution) hold no records of any pollution incidents on or within the vicinity of the site.

Landfill sites within 500m of the site boundary

The Council has no record of any former landfill site within 500 metres of the above premises.

Whether the site has been assessed as a Part IIA site

The site highlighted on the attached map has been identified as a site of interest under this Authorities Contaminated Land Strategy as published under Part IIA of the Environmental Protection Act 1990 owing to past use as an allotment site. The site will be investigated once risk assessed. A time frame for this is not known. It is likely that the site would be investigated and any remediation carried out during future redevelopment of the site.

Any other issues that may be pertinent to development of the site

As noted above the area highlighted on the attached map shows as allotment gardens on historic maps (1970-80) and this should be investigated should planning permission be sought for the site.

Burbage Fields Farm in the south of the site and the surrounding land has past agricultural use and this should be investigated should planning permission be sought for the site.

Gas monitoring was carried out during the development of the Land South Of 26 To 28 Britannia Road, Burbage which is to the immediate north east of the site under planning reference 12/00154/FUL. Gas protection measures were found to be required at that site. Bearing in mind the proximity to the above site gas monitoring should be included in the investigation of this area. The documents relating to the 12/00154/FUL can be found at:



Ask for Fairtrade products

Hinckley Hub • Rugby Road • Hinckley • Leics • LE10 0FR

Tel 01455 238141 • MDX No 716429 • Fax 01455 251172 • www.hinckley-bosworth.gov.uk

*Hinckley and Bosworth is proud to be **A Fairtrade Borough***

Printed on recycled paper

<https://pa.hinckley-bosworth.gov.uk/online-applications/applicationDetails.do?keyVal=LZP4TYII0DD00&activeTab=summary>

It must be understood that the information provided above is based on records and files from varying sources of varying reliability. Consequently, the Hinckley & Bosworth Borough Council is not able to offer any warranty as to the accuracy or completeness of the information provided, nor can it accept any liability whatsoever for any loss or damage arising from the interpretation and/or use of the information.

I trust the above is of use to you but should you require any further information please do not hesitate to contact me on the above telephone number.

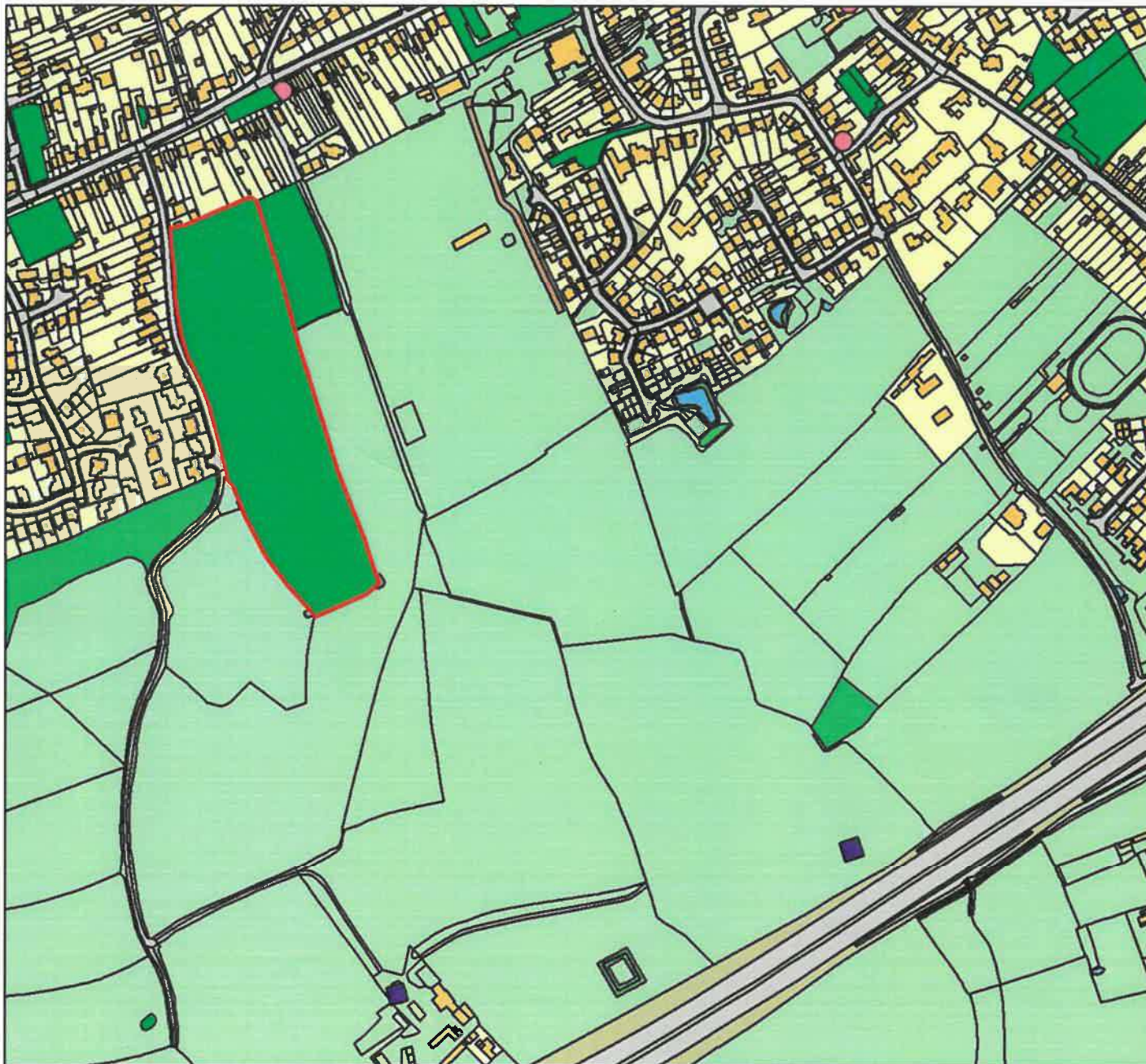
Yours sincerely

A handwritten signature in black ink, appearing to be 'Giles Rawdon', written in a cursive style.

Giles Rawdon
Environmental Health Officer

Bullfurlong Lane

Site of interest



Scale: 1:5,000

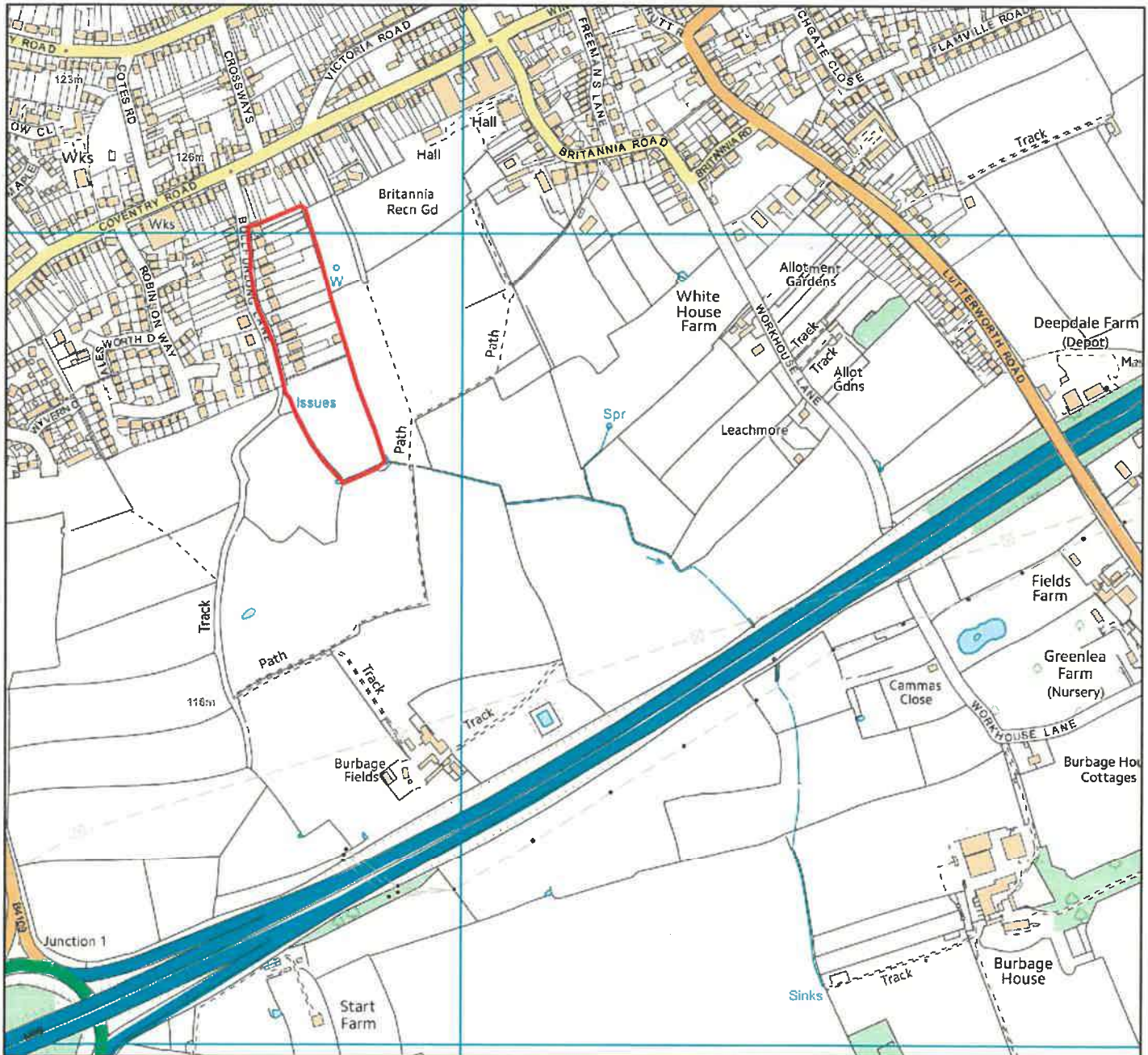
Reproduced from the Ordnance Survey map with permission of the Controller of His Majesty's Stationery Office © Crown Copyright 2014

Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings.

Organisation	Hinckley and Bosworth BC
Department	
Comments	Not Set
Date	13/06/2023
PSMA Number	100018489

Bullfurlong Lane

Site of Interest



Scale: 1:7,500

Reproduced from the Ordnance Survey map with permission of the Controller of His Majesty's Stationery Office © Crown Copyright 2014

Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings.

Organisation	Hinckley and Bosworth BC
Department	
Comments	
Date	13/06/2023
PSMA Number	100018489

APPENDIX 6

Conceptual Site Model and Preliminary Risk Assessment

BULLFURLONG LANE, BURBAGE
Appendix 6 – Conceptual Site Model and Preliminary Risk Assessment

Conceptual Model			Qualitative Risk		
Source (Associated Contaminants)	Pathway	Receptor	Consequence	Probability	Risk
On-site: Infilling of former ponds and Fieldgate Pit in the north of the site (Variable depending on nature and source of infill material, but could include: metals/metalloids, polyaromatic hydrocarbons (PAH), acidity/alkalinity (low/high pH), asbestos, ground gases (carbon dioxide, methane))	Dermal contact	Future site residents	Medium	Low	Moderate / Low
		Construction workers	Medium	Likely	Moderate
	Ingestion of soil	Future site residents	Medium	Low	Moderate / Low
		Construction workers	Medium	Unlikely	Low
	Direct contact	Water supply pipes	Medium	Low	Moderate / Low
	Inhalation of ground gases/vapours	Future site residents	Medium	Low	Moderate / Low
		Construction workers	Medium	Unlikely	Low
	Ingestion via home grown vegetables	Future site residents	Minor	Unlikely	Very Low
	Uptake via flora and fauna	Plants and wildlife	Mild	Low	Low
	Leachate migration from soil contamination. Dilution and dispersion into groundwater	Controlled waters	Medium	Unlikely	Low
On-site: Made ground associated with the hardcore surfacing and previous developments (Possible metals, metalloids, polyaromatic hydrocarbons, sulphates, acidity/alkalinity (low/high pH), asbestos – depending on nature and source of material)	Dermal contact	Future site residents	Medium	Low	Moderate / Low
		Construction workers	Medium	Likely	Moderate
	Ingestion of soil	Future site residents	Medium	Low	Moderate / Low
		Construction workers	Medium	Unlikely	Low
	Direct contact	Water supply pipes	Medium	Low	Moderate / Low
	Ingestion via home grown vegetables	Future site residents	Minor	Unlikely	Very Low
	Uptake via flora and fauna	Plants and wildlife	Mild	Low	Low
	Migration of contaminants via groundwater	Controlled waters	Medium	Unlikely	Low
	Direct contact	Foundations and other buried structures	Mild	Low	Low
On-site: Leaks and spills from agricultural machinery stored in the farmyard (petroleum hydrocarbons)	Ingestion of soil	Future site residents	Medium	Low	Moderate / Low
		Construction workers	Medium	Unlikely	Low
	Inhalation of ground gases/vapours	Water supply pipes	Medium	Low	Moderate / Low
		Future site residents	Medium	Low	Moderate / Low
	Ingestion via home grown vegetables	Future site residents	Minor	Unlikely	Very Low
	Leachate migration from soil contamination. Dilution and dispersion into groundwater	Controlled waters	Medium	Unlikely	Low
	Direct contact	Foundations and other buried structures	Mild	Low	Low

BULLFURLONG LANE, BURBAGE
Appendix 6 – Conceptual Site Model and Preliminary Risk Assessment

Conceptual Model			Qualitative Risk		
Source (Associated Contaminants)	Pathway	Receptor	Consequence	Probability	Risk
On-site: maintenance of farmland (Pesticides / insecticides)	Dermal contact	Future site residents	Medium	Low	Moderate / Low
		Construction workers	Medium	Low	Moderate / Low
	Ingestion of soil	Future site residents	Medium	Low	Moderate / Low
		Construction workers	Medium	Unlikely	Low
	Inhalation of wind-borne dust	Future site residents	Medium	Unlikely	Low
		Construction workers	Medium	Low	Moderate / Low
	Direct contact	Construction workers	Medium	Low	Moderate / Low
	Ingestion via home grown vegetables	Future site residents	Minor	Unlikely	Very Low
	Uptake via flora and fauna	Plants and wildlife	Mild	Low	Low
	Leachate migration from soil contamination. Dilution and dispersion into groundwater	Controlled waters	Medium	Unlikely	Low
	Surface run-off into surface water	Controlled waters	Medium	Unlikely	Low
On-site: Naturally occurring organic deposits within the alluvium (Ground gases including methane and carbon dioxide)	Migration of gases into buildings, followed by inhalation	Future site residents	Severe	Low	Moderate
		Construction worker	Severe	Low	Moderate
	Migration and collection of methane in confined spaces	Future site residents	Severe	Low	Moderate
		Construction workers	Severe	Low	Moderate
On-site: Materials within existing farmyard buildings and residential building in the north including potential asbestos-containing materials, pipework and paint constituents (Metals, asbestos)	Dermal contact	Future site residents	Severe	Unlikely	Moderate/Low
		Construction workers	Severe	Unlikely	Moderate/Low
	Inhalation of dust and airborne fibres	Future site residents	Severe	Unlikely	Moderate/Low
		Construction workers	Severe	Unlikely	Moderate/Low

BULLFURLONG LANE, BURBAGE
Appendix 6 – Conceptual Site Model and Preliminary Risk Assessment

Conceptual Model			Qualitative Risk		
Source (Associated Contaminants)	Pathway	Receptor	Consequence	Probability	Risk
Off-site: Regrading of levels for the motorway (M69) (Variable depending on nature and source of infill material, but could include: metals/metalloids, polyaromatic hydrocarbons (PAH), acidity/alkalinity (low/high pH), asbestos, ground gases (carbon dioxide, methane))	Dermal contact	Future site residents	Medium	Unlikely	Very low
		Construction workers	Medium	Unlikely	Very low
	Ingestion of soil	Future site residents	Medium	Unlikely	Very low
		Construction workers	Medium	Unlikely	Very low
	Direct contact	Water supply pipes	Medium	Unlikely	Very low
	Inhalation of ground gases/vapours	Future site residents	Medium	Unlikely	Very low
		Construction workers	Medium	Unlikely	Very low
	Ingestion via home grown vegetables	Future site residents	Minor	Unlikely	Very low
	Uptake via flora and fauna	Plants and wildlife	Mild	Unlikely	Very low
	Leachate migration from soil contamination. Dilution and dispersion into groundwater	Controlled waters	Medium	Unlikely	Very low
	Direct contact	Foundations and other buried structures	Mild	Unlikely	Very low

APPENDIX 7
Exploratory Hole Records



Travis Baker Geo-Environmental Ltd

Site Bullfurlong Lane, Burbage	Number BH01
Client Redrow Homes Limited and Mr Farmer	Job Number 23046
Engineer Travis Baker Geo-Environmental Limited	Sheet 1/1

Excavation Method Drive-in Windowless Sampler	Dimensions	Ground Level (mOD) 121.10
	Location (Handheld GPS) 443850 E 291920 N	Dates 25/05/2023

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20-0.40	D				(0.40)	Dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is medium rounded mudstone. - (TOPSOIL)		
0.50-0.60	D			120.70	0.40 (0.20)	Soft light brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular limestone and coal. - (OADBY MEMBER)		
				120.50	0.60 (0.50)	Firm light brown slightly sandy slightly gravelly CLAY with a pocket of orangish brown sand and a cobble of chert. Gravel is fine to medium subrounded chalk and mudstone. - (OADBY MEMBER)		
1.00-1.45	SPT(C) N=9		2,2/3,2,2,2	120.00	1.10	Firm light brown mottled grey slightly sandy slightly gravelly CLAY with occasional pockets of sand. Gravel is fine to medium subrounded chalk. - (OADBY MEMBER)		
1.20-1.50	D				(0.90)			
2.00-2.45	SPT(C) N=14		3,2/3,3,4,4	119.10	2.00 (0.20)	Medium dense orangish brown slightly clayey sandy GRAVEL. Gravel is fine to coarse subangular to subrounded mudstone. - (WOLSTON SAND AND GRAVEL)		
				118.90	2.20 (0.10)			
				118.80	2.30	Firm grey and orangish brown gravelly CLAY. Gravel is fine to coarse subrounded to subangular chalk and mudstone. - (WOLSTON SAND AND GRAVEL)		
						Stiff grey and orangish brown sandy CLAY with occasional pockets of orangish brown sand. - (BOSWORTH CLAY MEMBER)		
3.00-3.45	SPT(C) N=29		5,4/6,7,8,8		(1.40)			
3.20-3.60	D							
				117.40	3.70	Very stiff brown slightly gravelly CLAY. Gravel is fine to medium subrounded to subangular chalk, sandstone and mudstone. - (BOSWORTH CLAY MEMBER)		
4.00-4.44	SPT(C) 50/285		7,7/12,12,14,12		(0.74)			
				116.66	4.44	Complete at 4.44m		

Remarks Gas and groundwater observation well installed upon completion. Groundwater not encountered during drilling.	Scale (approx) 1:25	Logged By HC
	Figure No. 23046.BH01	

 Travis Baker Geo-Environmental Ltd						Site Bullfurlong Lane, Burbage		Number BH02
Excavation Method Drive-in Windowless Sampler		Dimensions		Ground Level (mOD) 116.10		Client Redrow Homes Limited and Mr Farmer		Job Number 23046
		Location (Handheld GPS) 443940 E 291348 N		Dates 25/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/2
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				(0.40)	Dark brown sandy GRAVEL. Gravel is fine to coarse angular brick and macadam. - (MADE GROUND)		
				115.70	0.40 (0.30)	Dark brown sandy slightly gravelly CLAY with frequent roots. Gravel is fine to medium angular brick. - (MADE GROUND)		
0.90	D			115.40	0.70 (0.30)	Very stiff dark brown slightly sandy slightly gravelly CLAY with occasional roots. Gravel is fine to medium subangular to angular concrete. - (MADE GROUND)		
1.00-1.45	SPT(C) N=17		4,3/4,4,5,4	115.10	1.00	Firm to stiff orangish brown mottled light grey slightly gravelly sandy CLAY. Gravel is fine rounded chalk and coal. - (OADBY MEMBER)		
1.50-1.80	B							
1.80	D				(1.70)			
2.00-2.45	SPT(C) N=11		3,3/2,3,3,3					
				113.40	2.70 (0.50)	Very stiff grey slightly sandy slightly gravelly CLAY with pockets of white and yellowish brown sand. Gravel is medium subangular chalk and weathered sandstone. - (OADBY MEMBER)		
3.00-3.45	SPT(C) N=36		10,11/12,10,7,7	112.90	3.20 (0.30)	Very stiff orangish brown slightly gravelly sandy CLAY. Gravel is fine rounded to subangular chalk and sandstone. - (BOSWORTH CLAY FORMATION)		
				112.60	3.50	Very stiff grey sandy CLAY with frequent thin sandy bands and faint organic odour. - (BOSWORTH CLAY FORMATION)		
4.00-4.45	SPT(C) N=32		5,5/6,8,8,10					
4.00	D				(1.95)			
5.00-5.45	SPT(C) N=42		10,11/10,10,11,11					
Remarks Backfilled with arisings upon completion. Groundwater not encountered during drilling.							Scale (approx) 1:25	Logged By DP
							Figure No. 23046.BH02	



Bullfurlong Lane, Burbage

Number
BH02

Drive-in Windowless Sampler

Dimensions

116.10

Redrow Homes Limited and Mr Farmer

Job
Number
23046

443940 E 291348 N

25/05/2023

Travis Baker Geo-Environmental Limited

Sheet
2/2

Depth
(m)

Sample / Tests

Water
Depth
(m)

Field Records

Level
(mOD)Depth
(m)
(Thickness)

Description

Legend

Water	
-------	--

110.65

5.45

Complete at 5.45m

Backfilled with arisings upon completion.
Groundwater not encountered during drilling.

Scale (approx)

1:25

Logged
By

DP

Figure No.

23046.BH02

Travis Baker Geo-Environmental Ltd						Site Bullfurlong Lane, Burbage		Number BH03	
Excavation Method Drive-in Windowless Sampler		Dimensions		Ground Level (mOD) 116.50		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443888 E 291789 N		Dates 25/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/2	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.00-0.30	D		3,2/3,3,3,4	116.10	(0.40)	Dark brown sandy slightly gravelly CLAY with frequent rootlets. Gravel is medium to coarse subrounded to subangular chert, mudstone and quartzite. - (TOPSOIL)		∇1	
0.50-0.80	D				0.40	Soft becoming firm at 0.9m orangish brown slightly sandy slightly gravelly CLAY with rare roots. Gravel is fine to coarse subangular to angular coal and chalk. - (OADBY MEMBER)			
1.00-1.45	SPT(C) N=13				(0.90)				
1.50-2.00	B				1.30	Firm brown slightly sandy gravelly CLAY with a cobble of siltstone. Gravel is fine to coarse subrounded chalk and chert. - (OADBY MEMBER)			
2.00-2.45	SPT(C) N=25				115.20	1.80	Stiff to very stiff brown slightly sandy gravelly CLAY. Gravel is fine to coarse subrounded chalk and chert. - (OADBY MEMBER)		
						(0.30)			
						2.10	Stiff to very stiff brown mottled grey slightly gravelly CLAY. Gravel is fine to medium subangular to angular coal, chalk and siltstone. - (OADBY MEMBER)		
					114.40	(0.30)			
						2.40	Brown and grey clayey GRAVEL. Gravel is fine to medium subangular to subrounded chalk, siltstone and mudstone. - (OADBY MEMBER)		
						2.50			
3.00-3.45	SPT(C) N=2	114.00	(0.50)	Firm light brown slightly sandy slightly gravelly CLAY with occasional pockets of orangish brown sand. Gravel is fine to medium subangular to subrounded coal. - (OADBY MEMBER)					
			3.00	Very loose orangish brown slightly clayey slightly gravelly SAND. - (WOLSTON SAND AND GRAVEL)					
			(0.90)						
4.00-4.45	SPT(C) N=10	113.50	3.90	Firm orangish brown very sandy CLAY. - (WOLSTON SAND AND GRAVEL)					
			(0.10)						
			4.00	Medium dense orangish brown slightly clayey slightly gravelly SAND. - (WOLSTON SAND AND GRAVEL)					
4.00-4.20	D	112.60	(1.45)						
5.00-5.45	SPT(C) N=11		0,1/2,2,3,4						
Remarks Backfilled with arisings upon completion. Groundwater encountered at 2.0m during drilling.							Scale (approx) 1:25	Logged By HC	Figure No. 23046.BH03



Bullfurlong Lane, Burbage

Number
BH03

Drive-in Windowless Sampler

Dimensions

116.50

Redrow Homes Limited and Mr Farmer

**Job
Number**
23046

443888 E 291789 N

25/05/2023

Travis Baker Geo-Environmental Limited

Sheet
2/2

Sample / Tests

Field Records

Depth
(m)
(Thickness)

Description

Legend

Water	
-------	--

111.05

5.45

Complete at 5.45m

Remarks
Backfilled with arisings upon completion.
Groundwater encountered at 2.0m during drilling.

Scale (approx)
1:25

Logged
By

HC

Figure No.
23046.BH03



Bullfurlong Lane, Burbage

Number
BH04

Drive-in Windowless Sampler

Dimensions

113.40

Redrow Homes Limited and Mr Farmer

**Job
Number**
23046

Location (Handheld GPS)
444020 E 291767 N

Dates	24/05/2023
--------------	------------

Travis Baker Geo-Environmental Limited

Sheet
1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Notes
0.10	D				(0.30)	Dark brown sandy CLAY with frequent rootlets. - (TOPSOIL)		
0.40	D			113.10	0.30 (0.20)	Soft dark brown and dark orangish brown slightly gravelly sandy CLAY with a slight organic odour. Gravel is fine to medium rounded to well rounded chert. - (OADBY MEMBER)		
				112.90	0.50	Very soft brown sandy CLAY with rare lenses of sand. - (OADBY MEMBER)		
0.80	D							
1.00-1.45	SPT(C) N=2		0,0/0,0,1,1		(1.20)			
1.40-1.70	B							
			Water strike(1) at 1.70m.	111.70	1.70	Medium dense orangish and reddish brown silty SAND with rare very soft grey pockets of clay. Sand is fine to medium grained. - (WOLSTON SAND AND GRAVEL)		
1.90	D							
2.00-2.45	SPT(C) N=11		2,2/2,3,3,3					
					(1.75)			
								
3.00-3.45	SPT(C) N=48		5,5/12,12,12,12					
				109.95	3.45	Complete at 3.45m		

Groundwater encountered at 1.7m during drilling.
Gas and groundwater observation well installed upon completion.

1:25

DP

23046 BH04



Travis Baker Geo-Environmental Ltd

Site Bullfurlong Lane, Burbage	Number BH05
--	------------------------------

Excavation Method Drive-in Windowless Sampler	Dimensions	Ground Level (mOD) 110.50	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location (Handheld GPS) 444104 E 291655 N	Dates 24/05/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 1/2

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.40)	Dark brown sandy CLAY with frequent rootlets. - (TOPSOIL)		
0.50	D			110.10	0.40 (0.30)	Firm orangish brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular chert. - (OADBY MEMBER)		
1.00-1.45	SPT(C) N=13		3,3/2,3,4,4	109.80	0.70	Firm becoming stiff from 1.5m grey and brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium rounded to well rounded chalk, chert and sandstone. - (BOSWORTH CLAY FORMATION)		
1.50	D							
1.80-2.00	B							
2.00-2.45	SPT(C) N=20		4,4/4,5,5,6					
3.00-3.45	SPT(C) N=22		4,4/4,5,6,7		(4.75)			
4.00-4.45	SPT(C) N=26		4,3/7,6,6,7					
5.00-5.45	SPT(C) N=27		5,5/6,7,7,7					

Remarks Gas and groundwater observation well installed upon completion. Groundwater not encountered during drilling.	Scale (approx)	Logged By
	1:25	DP
	Figure No. 23046.BH05	



Bullfurlong Lane, Burbage

Number
BH05

Drive-in Windowless Sampler

Dimensions

110.50

Redrow Homes Limited and Mr Farmer

Job
Number
23046

444104 F 291655 N

24/05/2023

Travis Baker Geo-Environmental Limited

Sheet
2/2

Sample / Tests

Field Records

Depth
(m)
(Thickness)

Description

Legend

Water

105.05

5.45

Complete at 5.45m

Remarks
Gas and groundwater observation well installed upon completion.
Groundwater not encountered during drilling.

Scale (approx)

1:25

Logged
By

DP

Figure No.
23046.BH05



Travis Baker Geo-Environmental Ltd

Site Bullfurlong Lane, Burbage	Number BH06
--	------------------------------

Excavation Method Drive-in Windowless Sampler	Dimensions	Ground Level (mOD) 117.30	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location (Handheld GPS) 443802 E 291522 N	Dates 25/05/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20-0.40	D				(0.50)	Brown slightly gravelly clayey SAND. Gravel is medium subrounded to subangular mudstone. - (TOPSOIL)		
				116.80	0.50			
					(0.50)	Soft light brown slightly sandy slightly gravelly CLAY with a pocket of orangish brown sand. Gravel is fine to medium subrounded to rounded quartzite, chalk, coal and mudstone. - (OADBY MEMBER)		
1.00-1.45	SPT(C) N=12		2,2/3,2,4,3	116.30	1.00	Firm light brown and orangish brown sandy gravelly CLAY. Gravel is fine to coarse angular to subrounded mudstone, chalk and quartzite. - (OADBY MEMBER)		
1.00-1.20	D			116.10	1.20			
					(0.20)	Medium dense orangish brown medium to coarse grained SAND. - (WOLSTON SAND AND GRAVEL)		
				115.90	1.40	Firm light brown and orangish brown slightly gravelly very sandy CLAY. Gravel is medium to coarse subrounded to subangular mudstone. - (WOLSTON SAND AND GRAVEL)		
2.00-2.50	B		Water strike(1) at 2.00m.		(1.10)			∇1
2.00-2.45	SPT(C) N=16		3,3/3,4,4,5					
2.50-3.00	D			114.80	2.50	Stiff grey slightly gravelly CLAY. Gavel is fine to medium subangular chalk, mudstone and siltstone. - (BOSWORTH CLAY MEMBER)		
3.00-3.45	SPT(C) N=27		3,3/5,6,7,9		(0.95)			
				113.85	3.45	Terminated at 3.45m		

Remarks Groundwater encountered at 2.0m during drilling. Gas and groundwater observation well installed on completion. Sampler refused at 3.5m during drilling.	Scale (approx) 1:25	Logged By HC
	Figure No. 23046.BH06	



Travis Baker Geo-Environmental Ltd

Site Bullfurlong Lane, Burbage	Number BH07
--	------------------------------

Excavation Method Drive-in Windowless Sampler	Dimensions	Ground Level (mOD) 114.40	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location (Handheld GPS) 444026 E 291567 N	Dates 25/05/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 1/2

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.40)	Dark brown sandy CLAY with frequent roots. - (TOPSOIL)		
0.60	D			114.00	0.40 (0.50)	Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse rounded to subrounded chert. - (OADBY MEMBER)		
1.00-1.45	SPT(C) N=14		3,2/3,3,4,4	113.50 113.40	0.90 (0.10) 1.00	Orangish brown slightly gravelly clayey SAND. Gravel is fine rounded chert. - (WOLSTON SAND AND GRAVEL)		
1.40-1.60	B				(0.95)	Firm greyish brown speckled light grey and orangish brown sandy CLAY. - (BOSWORTH CLAY FORMATION)		
1.80	D			112.45	1.95	Stiff grey and brown slightly sandy CLAY with rare lenses of sand. - (BOSWORTH CLAY FORMATION)		
2.00-2.45	SPT(C) N=19		4,4/4,4,5,6					
3.00-3.45	SPT(C) N=19		3,4/3,5,5,6		(2.35)			
4.00-4.45	SPT(C) N=34		4,5/6,8,9,11	110.10	4.30	Very stiff grey slightly sandy slightly gravelly CLAY. Gravel is fine rounded chalk and chert. - (BOSWORTH CLAY FORMATION)		
5.00-5.45	SPT(C) N=39		5,6/7,10,10,12		(1.15)			

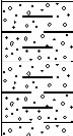
Remarks Gas and groundwater onbsevation well installed upon completion. Groundwater not encountered during drilling.	Scale (approx)	Logged By
	1:25	HC
	Figure No. 23046.BH07	



Travis Baker Geo-Environmental Ltd

Site Bullfurlong Lane, Burbage	Number BH07
--	------------------------------

Excavation Method Drive-in Windowless Sampler	Dimensions	Ground Level (mOD) 114.40	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location (Handheld GPS) 444026 E 291567 N	Dates 25/05/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 2/2

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				108.95	5.45	Complete at 5.45m		

Remarks Gas and groundwater onbsevation well installed upon completion. Groundwater not encountered during drilling.	Scale (approx)	Logged By
	1:25	HC
	Figure No. 23046.BH07	



Travis Baker Geo-Environmental Ltd

Site Bullfurlong Lane, Burbage	Number BH08
--	------------------------------

Excavation Method Drive-in Windowless Sampler	Dimensions	Ground Level (mOD) 110.10	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location (Handheld GPS) 444178 E 291523 N	Dates 25/05/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 1/2

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D			109.80	(0.30)	Dark brown sandy CLAY with frequent rootlets. - (TOPSOIL)		
0.80	D				(1.30)	Firm reddish brown and orangish brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium well rounded to angular chert, cemented sandstone, sandstone, chalk, coal, mudstone and metamorphic rock. - (OADBY MEMBER)		
1.00-1.45	SPT(C) N=11		2,2/2,3,3,3					
1.30-1.60	B			108.50	1.60	Gravel content increasing with depth to 1.5m. Becoming sandy and slightly gravelly between 1.5-1.6m.		
2.00-2.45 2.00	SPT(C) N=15 D		3,3/3,4,4,4		(0.80)	Firm to stiff grey and brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subrounded to rounded chert, chalk and coal. - (OADBY MEMBER)		
				107.70	2.40	Stiff greyish brown slightly sandy slightly gravelly CLAY. Gravel is medium well rounded chert. - (BOSWORTH CLAY MEMBER)		
3.00-3.45	SPT(C) N=18		3,3/4,4,5,5		(2.10)			
4.00-4.45	SPT(C) N=21		4,4/4,5,6,6					
				105.60	4.50	Stiff grey and brown slightly sandy gravelly CLAY. Gravel is fine to medium well rounded to rounded chert, slate and chalk. (BOSWORTH CLAY MEMBER)		
5.00-5.45	SPT(C) N=28		4,8/6,7,7,8					

Remarks Gas and groundwater observation well installed upon completion. Groundwater not encountered during drilling.	Scale (approx)	Logged By
	1:25	DP
	Figure No. 23046.BH08	



Bullfurlong Lane, Burbage

Number
BH08

Drive-in Windowless Sampler

Dimensions

110.10

Redrow Homes Limited and Mr Farmer

Job
Number
23046

444178 F 291523 N

25/05/2023

Travis Baker Geo-Environmental Limited

Sheet
2/2

Sample / Tests

Field Records

Depth
(m)
(Thickness)

Description

Legend

Water

(0.95)

104.65

5.45

Complete at 5.45m

Remarks
Gas and groundwater observation well installed upon completion.
Groundwater not encountered during drilling.

1:25

DP

23046.BH08



Travis Baker Geo-Environmental Ltd

Site Bullfurlong Lane, Burbage	Number BH09
--	------------------------------

Excavation Method Drive-in Windowless Sampler	Dimensions	Ground Level (mOD) 115.90	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location (Handheld GPS) 443962 E 291303 N	Dates 25/05/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 1/2

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D					Dark grey slightly clayey slightly sandy GRAVEL. Gravel is fine to coarse subangular to angular chalk, brick, concrete, quartzite and mudstone. - (MADE GROUND)		
1.00-1.45	SPT(C) N=10		3,2/3,3,2,2	115.10	0.80	Firm light brown silty slightly sandy slightly gravelly CLAY with occasional pockets of slightly gravelly sand. Gravel is fine to medium subangular to angular chalk and mudstone. - (OADBY MEMBER)		
2.00-2.45	SPT(C) N=11		3,2/2,2,3,4		(1.50)	Pocket of stiff grey clay between 1.8m and 1.9m.		
2.10	D							
2.40	D			113.60	2.30	Firm brown slightly sandy gravelly CLAY. Gravel is fine to medium subangular to subrounded chalk and mudstone. - (OADBY MEMBER)		
				113.30	2.60	Brown clayey sandy GRAVEL. Gravel is fine to medium subrounded to subangular siltstone, chalk and mudstone. - (WOLSTON SAND AND GRAVEL)		
				113.10	2.80	Firm light brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular to subrounded chalk and coal. - (BOSWORTH CLAY MEMBER)		
3.00-3.45	SPT(C) N=21		3,4/3,5,6,7	112.80	3.10	Stiff grey slightly gravelly CLAY. Gravel is fine to medium subangular chalk and siltstone. - (BOSWORTH CLAY MEMBER)		
4.00-4.45	SPT(C) N=18		3,3/4,4,4,6		(2.35)			
5.00-5.45	SPT(C) N=21		5,5/5,5,5,6					

Remarks Gas and groundwater observation well installed upon completion. Groundwater not encountered during drilling.	Scale (approx) 1:25	Logged By HC
	Figure No. 23046.BH09	



Bullfurlong Lane, Burbage

Number
BH09

Drive-in Windowless Sampler

Location (Handheld GPS)
443962 E 291303 N

115.90

Redrow Homes Limited and Mr Farmer

Job
Number
23046

Travis Baker Geo-Environmental Limited

Sheet
2/2

Depth
(m)

Sample / Tests

Water
Depth
(m)

Field Records

Level
(mOD)

Depth
(m)
(Thickness)

Description

Legend

Water

110.45

5.45

Complete at 5.45m

Remarks
Gas and groundwater observation well installed upon completion.
Groundwater not encountered during drilling.

Scale (approx)

1:25

Logged
By

HC

Figure No.

23046 BH09



Travis Baker Geo-Environmental Ltd

Site Bullfurlong Lane, Burbage	Number BH10
--	------------------------------

Excavation Method Drive-in Windowless Sampler	Dimensions	Ground Level (mOD) 116.00	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location (Handheld GPS) 443982 E 291362 N	Dates 25/05/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 1/2

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D					Brown slightly sandy gravelly CLAY. Gravel is fine to coarse subangular to rounded brick, plastic and quartzite. - (MADE GROUND)		
1.00-1.45	SPT(C) N=9		2,2/2,2,2,3	115.00	1.00	Firm light brown mottled grey and black slightly sandy slightly gravelly CLAY with a pocket of orangish brown sand. Gravel is fine to coarse subangular to subrounded siltstone, mudstone and quartzite. - (OADBY MEMBER)		
1.10	D				(0.50)			
1.60	D			114.50	1.50	Firm brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to medium subrounded to subangular chalk, mudstone and siltstone. - (OADBY MEMBER)		
					(0.50)			
2.00-2.45	SPT(C) N=18		3,3/3,4,5,6	114.00	2.00	Firm to stiff brown slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded chalk and rare siltstone. - (BOSWORTH CLAY FORMATION)		
2.40-2.60	B				(1.00)			
3.00-3.45	SPT(C) N=20		5,4/4,6,5,5	113.00	3.00	Stiff grey mottled light brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded chalk. - (BOSWORTH CLAY FORMATION)		
					(1.50)			
4.00-4.45	SPT(C) N=29		3,6/6,7,8,8					
				111.50	4.50	Medium dense grey clayey SAND. Sand is medium grained. - (BOSWORTH CLAY MEMBER)		
5.00-5.45	SPT(C) N=30		4,3/4,9,8,9					

Remarks Backfilled with arisings upon completion. Groundwater not encountererd during drilling.	Scale (approx)	Logged By
	1:25	HC
	Figure No. 23046.BH10	



Bullfurlong Lane, Burbage

Number
BH10

**Job
Number**
23046

Sheet
2/2

Water

5.45

5.45

Complete at 5.45m

HC

Figure No.
23046.BH10



Travis Baker Geo-Environmental Ltd

Site		Number	
Bullfurlong Lane, Burbage		BH11	
Client		Job Number	
Redrow Homes Limited and Mr Farmer		23046	
Engineer		Sheet	
Travis Baker Geo-Environmental Limited		1/1	
Description		Legend	Water
Dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to medium subangular to rounded chert, brick and coal. - (TOPSOIL)			
Stiff greyish brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular to rounded chert and coal. - (OADBY MEMBER)			
Stiff orangish brown and grey sandy slightly gravelly CLAY. Gravel is medium rounded sandstone and chert. - (OADBY MEMBER)			
Soft light grey mottled orangish brown clayey very sandy SILT. Sand is fine. - (WOLSTON SAND AND GRAVEL)			
Soft grey clayey SILT. - (WOLSTON SAND AND GRAVEL)			
Medium dense brown silty SAND. - (WOLSTON SAND AND GRAVEL)			
Firm grey clayey SILT with faint organic odour. - (WOLSTON SAND AND GRAVEL)			
Very loose brown fine to medium grained SAND. - (WOLSTON SAND AND GRAVEL)			
Grey silty SAND. Sand is fine to medium grained. - (WOLSTON SAND AND GRAVEL)			
Grey and brown slightly silty SAND. Sand is fine to medium grained. - (WOLSTON SAND AND GRAVEL)			
Stiff grey silty CLAY. - (BOSWORTH CLAY MEMBER)			V
Complete at 4.45m			
		Scale (approx)	Logged By
		1:25	DP
		Figure No. 23046.BH11	



Travis Baker Geo-Environmental Ltd

Site		Number	
Bullfurlong Lane, Burbage		BH12	
Client		Job Number	
Redrow Homes Limited and Mr Farmer		23046	
Engineer		Sheet	
Travis Baker Geo-Environmental Limited		1/1	
Description	Legend	Water	
Dark brown sandy CLAY with frequent rootlets. - (TOPSOIL)			
Stiff reddish brown sandy slightly gravelly CLAY with rare lenses of light brown sand. Gravel is fine subangular coal and quartzite. - (OADBY MEMBER)			
Firm reddish brown locally spotted light grey sandy slightly gravelly CLAY. Gravel is medium rounded sandstone. - (OADBY MEMBER)			
Soft orangish brown slightly gravelly very sandy CLAY. Gravel is medium rounded quartzite. - (OADBY MEMBER)			
Stiff brown locally mottled light grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse grained. Gravel is fine to medium rounded to well rounded chert, chalk and mudstone. - (OADBY MEMBER)			
Stiff grey speckled white slightly sandy slightly gravelly CLAY. Sand is fine to coarse grained. Gravel is fine to medium rounded to well rounded chert, chalk and slate. - (OADBY MEMBER)			
Medium dense brown SAND. Sand is fine to medium grained. - (WOLSTON SAND AND GRAVEL)		√	
Firm grey silty CLAY. - (BOSWORTH CLAY MEMBER)			
Firm grey sandy SILT. - (BOSWORTH CLAY MEMBER)			
Complete at 4.45m			
		Scale (approx)	Logged By
		1:25	DP
		Figure No. 23046.BH12	



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP01

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 124.60	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
		Location (Handheld GPS) 443818 E 292015 N		Dates 26/05/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D			124.30	(0.30)	Brown slightly clayey slightly gravelly SAND. Gravel is fine to medium subrounded to rounded mudstone. - (TOPSOIL)		
0.70	D				(0.90)	Light brown slightly gravelly clayey SAND. Sand is medium to coarse grained. Gravel is fine to coarse subrounded to rounded mudstone and quartzite. - (DUNSMORE GRAVEL MEMBER)		
				123.40	1.20	Firm brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subrounded to rounded mudstone and quartzite. - (OADBY MEMBER)		
					(0.80)			
				122.60	2.00	Stiff grey slightly gravelly CLAY with occasional pockets of orangish brown sand. Gravel is fine to medium subangular to subrounded chalk and limestone. - (OADBY MEMBER)		
2.40	D				(1.00)			
2.80	HSV 89.33kPa		92,80,96/Av. 89.33	121.60	3.00	Complete at 3.00m		

Plan					Remarks		
.	.	.	.	.	Slight pit side collapse between 1.2m and 2.0m during excavation. Groundwater not encountered during excavation. Materials not suitable for hand shear vane test below 1.0m and test taken on disturbed samples below 1.0m.		
.	.	.	.	.			
.	.	.	.	.			
.	.	.	.	.			
.	.	.	.	.			
.	.	.	.	.			
					Scale (approx)	Logged By	Figure No.
					1:25	HC	23046.TP01



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP02

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 123.50		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443818 E 292015 N		Dates 26/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.40)	Brown slightly clayey slightly gravelly SAND. Gravel is fine to medium subrounded to rounded mudstone. - (TOPSOIL)		
				123.10	0.40 (0.20)	Soft brown slightly gravelly sandy CLAY. Gravel is medium subangular to subrounded chert, quartzite and mudstone. - (OADBY MEMBER)		
0.75	HSV 42.67kPa		38,40,50/Av. 42.67	122.90	0.60 (0.40)	Soft to firm light grey slightly sandy slightly gravelly CLAY. Gravel is medium subangular to subrounded chert, quartzite and mudstone. - (OADBY MEMBER)		
				122.50	1.00 (2.00)	Stiff grey gravelly CLAY with occasional pockets of orangish brown sand. Gravel is fine to coarse subangular to subrounded chalk, limestone and mudstone. - (OADBY MEMBER)		
1.30	D							
				120.50	3.00	Complete at 3.00m		

Plan					Remarks			
.	.	.	.	.	Pit sides stable during excavation. Groundwater not encountered during excavation. Hand shear vane undertaken at 0.75m in-situ and on disturbed samples below 1.0m.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		HC	23046.TP02



Bullfurlong Lane, Burbage

Job
Number
23046

Method : Trial Pit

118.80

Redrow Homes Limited and Mr Farmer

30/05/2023

Travis Baker Geo-Environmental Limited

1/1

Sample / Tests

Field Records

Depth
(m)
(Thickness)

Description

Legend

Water

0.10

D

0.50

D

0.70

HSV 31 33kPa

32 34 28/Av 31 33

118.45

(0.35)

0.35

Dark brown slightly gravelly sandy CLAY. Gravel is fine to medium sub rounded mudstone and chert. - (TOPSOIL)

Soft light orangish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine subangular to subrounded coal and chalk. - (OADBY MEMBER)

117.50

1.30

Firm grey mottled light brown slightly gravelly CLAY with occasional pockets of orangish brown medium sand. Gravel is fine to medium subrounded to subangular chalk, mudstone and sandstone. - (BOSWORTH CLAY MEMBER)

180

D

116.50

230

Stiff dark grey gravelly becoming very gravelly CLAY with rare to occasional cobbles of mudstone. Gravel is fine to coarse subangular to angular mudstone. - (BOSWORTH CLAY MEMBER)

115 80

3 00

Complete at 3.00m

Plan

Remarks

Groundwater not encountered during excavation.
Pit sides stable during excavation.
Hand shear vane undertaken at 0.7m in-situ, material below 1.0m too friable for test.

Scale (approx)

1.25

Logged By

HC

Figure No.

23046 TP03



Bullfurlong Lane, Burbage

Job
Number
23046

Method : Trial Pit

Dimensions

Ground Level (mOD)

115 00

Client	
---------------	--

Redrow Homes Limited and Mr Farmer

Location (Handheld GPS)

443920 F 291736 N

Dates

30/05/2023

Engineer

Travis Baker Geo-Environmental Limited

Sheet

1/1

Plan	Remarks Hand shear vane undertaken at 0.7m in-situ, material below 1.0m too friable for test. Groundwater not encountered during excavation Pit sides stable during excavation.		
	Scale (approx) 1:25	Logged By HC	Figure No. 23046.TP04



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP05

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 115.00		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443983 E 291784 N		Dates 26/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				(0.60)	Dark brown slightly gravelly sandy CLAY with frequent roots. Gravel is medium to coarse subangular to subrounded sandstone and mudstone (TOPSOIL)		
0.85	HSV 60.67kPa		62,50,70/Av. 60.67	114.40 114.20	0.60 (0.20) 0.80	Soft light brown slightly gravelly sandy CLAY with rare roots. Gravel is medium to coarse subangular to subangular sandstone and mudstone. - (OADBY MEMBER)		
1.10	D				(1.80)	Firm light brown slightly gravelly sandy CLAY. Gravel is medium to coarse subrounded to subangular sandstone and mudstone. - (OADBY MEMBER)		
2.80	D			112.40 112.00	2.60 (0.40) 3.00	Firm light brown slightly gravelly silty CLAY. Gravel is fine to medium subangular chalk and coal. - (OADBY MEMBER)		
						Complete at 3.00m		

Plan					Remarks			
.	.	.	.	.	Hand shear vane undertaken at 0.85m in-situ, material below 1.0m too friable for test. Pit sides stable during excavation. Groundwater not encountered during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		HC	23046.TP05



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP06

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 111.20		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444041 E 291719 N		Dates 26/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D			111.00	(0.20) 0.20	Dark brown slightly gravelly sandy CLAY with occasional roots. Gravel is medium subangular to subrounded mudstone and sandstone. - (TOPSOIL)		V1
0.30	HSV 19.33kPa		Water strike(1) at 0.30m. 20,20,18/Av. 19.33		(0.70)	Very soft grey mottled brown slightly gravelly CLAY. Gravel is fine to medium subrounded chalk. - (OADBY MEMBER)		
			Water strike(2) at 1.00m.	110.30	0.90	Dark grey brown gravelly very clayey SAND. Gravel is fine to coarse subangular to rounded sandstone, quartzite, mudstone, limestone and chalk. - (WOLSTON SAND AND GRAVEL)		V2
			Water strike(3) at 1.50m.		(1.90)			V3
2.30	D			108.40	2.80	Complete at 2.80m		

Plan					Remarks			
.	.	.	.	.	Groundwater encountered at 1.5m bgl promoting side wall collapse between 1.8m and 2.8m bgl during excavation. Groundwater seepage encountered at 0.3m followed by steady inflow at 1.0m bgl. Hand shear vane undertaken at 0.3m in-situ, material below 1.0m too friable for test.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		HC	23046.TP06



Bullfurlong Lane, Burbage

Job
Number
23046

Method : Trial Pit

Dimensions

Ground Level (mOD)

111 60

Client	
---------------	--

Redrow Homes Limited and Mr Farmer

Location (Handheld GPS)

444086 F 291761 N

Dates

25/05/2023

Engineer

Travis Baker Geo-Environmental Limited

Sheet
1/1

 ∇_1

Plan

Remarks

Hand shear vane undertaken at 0.8m in-situ, material below 1.0m too friable for test.
Rapid groundwater inflow encountered at 2.1m causing side wall collapse from 2.3m during excavation.

Scale (approx)

1:25

Logged By

HC

Figure No.

23046 TP07



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP08

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 114.10		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443984 E 291669 N		Dates 30/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.50)	Dark brown slightly gravelly clayey SAND. Gravel is medium to coarse rounded mudstone, sandstone and chert. - (TOPSOIL)		
0.70	HSV 74.67kPa		70,74,80/Av. 74.67	113.60	0.50 (0.50)	Firm light orangish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is medium to coarse subrounded to rounded mudstone, quartzite and sandstone. - (OADBY MEMBER)		
1.10	D			113.10	1.00 (1.45)	Stiff brown mottled grey becoming grey slightly gravelly CLAY with occasional pockets of orangish brown sand. Gravel is fine to coarse subangular to subrounded chalk. - (OADBY MEMBER)		
2.80	D		Water strike(1) at 2.60m.	111.65	2.45 (0.45)	Orangish brown slightly gravelly SAND. Sand is medium to coarse grained. Gravel is fine to coarse subangular to subrounded chert. - (WOLSTON SAND AND GRAVEL)		✓1
				111.20	2.90	Complete at 2.90m		

Plan					Remarks			
.	.	.	.	.	Hand shear vane undertaken at 0.7m in-situ, material below 1.0m too friable for test. Groundwater encountered at 2.6m during excavation promoting side wall collapse from 2.45m.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		HC	23046.TP08



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP09

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 117.00		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443866 E 291631 N		Dates 31/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.35)	Dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to medium subrounded to rounded chert. - (TOPSOIL)		
0.40	D			116.65	0.35	Stiff brown slightly gravelly sandy CLAY. Gravel is medium subangular chert. - (OADBY MEMBER)		
					(0.75)			
0.80	HSV 96kPa		92,98,98/Av. 96.00					
1.00	B			115.90	1.10	Firm orangish brown mottled yellowish brown sandy CLAY with occasional pockets of orange medium sand. - (OADBY MEMBER)		
					(0.60)			
1.50	HSV 60.67kPa		38,70,74/Av. 60.67					
				115.30	1.70	Stiff grey slightly sandy slightly gravelly CLAY. Gravel is fine to medium chalk, chert and siltstone. - (OADBY MEMBER)		
2.00	HSV 79.33kPa		Water strike(1) at 1.90m. 89,61,88/Av. 79.33		(1.50)			∇1
2.60	HSV 86.33kPa		96,85,78/Av. 86.33					
				113.80	3.20	Complete at 3.20m		

Plan					Remarks			
.	.	.	.	.	Pit sides stable during excavation. Hand shear vane undertaken at 0.8m in-situ and on disturbed samples below 1.0m. Slight groundwater seepage encountered at 1.9m during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		DP	23046.TP09



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP10

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 117.50		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443807 E 291583 N		Dates 30/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.50)	Dark brown slightly gravelly sandy CLAY. Gravel is fine to medium subrounded to rounded chalk, mudstone and quartzite. - (TOPSOIL)		
0.60	HSV 64kPa		64,68,60/Av. 64.00	117.00	0.50	Firm reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is medium rounded mudstone and quartzite. - (OADBY MEMBER)		
					(1.20)			
				115.80	1.70	Yellow brown slightly sandy GRAVEL. Gravel is fine to coarse subangular to angular gravel of quartz, chert and sandstone. - (WOLSTON SAND AND GRAVEL)		
2.00	D		Water strike(1) at 2.30m.		(0.70)			
				115.10	2.40	Complete at 2.40m		V1

Plan					Remarks			
.	.	.	.	.	Hand shear vane undertaken at 0.6m in-situ, material below 1.0m too friable for test. Groundwater encountered at 2.3m during excavation promoting continuous spalling of pit side walls below 1.7m.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx) 1:25		Logged By HC	
							Figure No. 23046.TP10	



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP11

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 117.90		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443756 E 391620 N		Dates 30/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				(0.50)	Dark brown slightly gravelly sandy CLAY. Gravel is fine to medium subrounded to rounded chalk, mudstone and quartzite. - (TOPSOIL)		
0.60 0.70	HSV 62kPa D		68,60,58/Av. 62.00	117.40	0.50 (0.85)	Firm light greyish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to medium subrounded to rounded mudstone and chalk. - (OADBY MEMBER)		
1.50	D			116.55	1.35 (0.75)	Firm orangish brown slightly sandy gravelly CLAY. Gravel is fine to coarse subrounded to rounded chalk, mudstone, quartzite and limestone with rare cobbles of mudstone. - (OADBY MEMBER)		
				115.80	2.10 (1.00)	Firm to stiff grey mottled brown slightly gravelly CLAY. Gravel is fine to coarse subrounded to rounded chalk. - (OADBY MEMBER)		
			Water strike(1) at 2.80m.	114.80	3.10	Complete at 3.10m		

Plan					Remarks			
.	.	.	.	.	Hand shear vane undertaken at 0.6m in-situ, material below 1.0m too friable for test. Slight groundwater seepage encountered at 2.8m during excavation. Pit sides stable during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx) 1:25		Logged By HC	Figure No. 23046.TP11



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP13

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 117.10		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443844 E 291508 N		Dates 30/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.50)	Dark brown slightly clayey slightly gravelly SAND. Sand is medium grained. Gravel is medium to coarse subrounded to rounded mudstone and quartzite. - (TOPSOIL)		
				116.60	0.50	Stiff light brown mottled grey slightly gravelly sandy CLAY. Gravel is fine to medium subrounded to subangular coal and chalk. - (OADBY MEMBER)		
1.20	HSV 131.67kPa		135,128,132/Av. 131.67		(1.35)			
1.30	D							
				115.25	1.85	Firm light brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular chalk and coal. - (OADBY MEMBER)		
				115.00	2.10	Orangish brown slightly clayey SAND. Sand is medium grained. - (WOLSTON SAND AND GRAVEL FORMATION)		
					(0.40)			
				114.60	2.50	Stiff grey slightly gravelly CLAY. Gravel is fine to medium subrounded to rounded chalk, mudstone and quartzite. - (WOLSTON SAND AND GRAVEL)		
				114.30	2.80	Reddish brown slightly clayey slightly gravelly SAND. Sand is medium to coarse grained. Gravel is fine to medium subrounded to rounded chalk, mudstone and quartzite. - (WOLSTON SAND AND GRAVEL).		
			Water strike(1) at 2.90m.	114.10	3.00			
						Complete at 3.20m		

Plan					Remarks			
.	.	.	.	.	Hand shear vane undertaken at 1.2m on disturbed samples, material below 1.5m too friable for test. Groundwater seepage encountered at 2.9m during excavation. Pit sides stable during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		HC	23046.TP13



Bullfurlong Lane, Burbage

Job
Number
23046

Method : Trial Pit

Ground Level (mOD)

115 00

Redrow Homes Limited and Mr Farmer

Dates

31/05/2023

Travis Baker Geo-Environmental Limited

1/1

 Σ_1

Remarks

Steady groundwater inflow encountered at 2.0m during excavation in sandy bands causing slurring of side walls.
Hand shear vane undertaken at 0.7m in-situ and on disturbed samples below 1.0m.

Scale (approx)

1:25

Logged By

DP

Figure No.

23046 TP14



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP15

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 110.40		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444120 E 291615 N		Dates 26/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.40	D				(0.50)	Brown slightly clayey slightly gravelly SAND with frequent roots. Gravel is fine to medium subangular to angular chert. - (TOPSOIL)		
0.60	69.33kPa		70,70,68/Av. 69.33	109.90	0.50	Firm light brown mottled grey slightly sandy slightly gravelly CLAY with rare roots. Gravel is subrounded to rounded fine to medium chalk. - (OADBY MEMBER)		
1.00	D			109.10	1.30	Firm grey mottled brown gravelly CLAY with occasional pockets of orangish brown sand. Gravel is fine to medium subrounded to subangular chalk, mudstone and coal. - (OADBY MEMBER)		
					(1.40)			
				107.70	2.70	Stiff dark brown mottled grey gravelly CLAY with occasional pockets of orangish brown sand. Gravel is fine to medium subrounded to subangular chalk, mudstone and coal. - (OADBY MEMBER)		
					(0.40)			
				107.30	3.10	Complete at 3.10m		

Plan					Remarks			
.	.	.	.	.	Hand shear vane undertaken at 0.6m in-situ, material below 1.0m too friable for test. Groundwater not encountered during excavation. Pit sides stable during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		HC	23046.TP15



Bullfurlong Lane, Burbage

Job
Number
23046

Method : Trial Pit

Ground Level (mOD)

113.30

Redrow Homes Limited and Mr Farmer

Dates

30/05/2023

Travis Baker Geo-Environmental Limited

1/1

Water

112.85

0.45

Firm light orangish brown mottled grey slightly gravelly sandy CLAY. Gravel is fine subangular coal. - (OADBY MEMBER)

(0.90)

D

1.35

(1.85)

110.10

3.20

Firm becoming stiff at 2.8m light brown mottled grey slightly gravelly CLAY with occasional pockets of orangish brown sand. Gravel is fine to coarse subrounded to rounded chalk and mudstone. - (BOSWORTH CLAY FORMATION)

Complete at 3.20m

Remarks

Pit sides stable during excavation.
Groundwater not encountered during excavation.
Hand shear vane undertaken at 0.65m in-situ, material below 1.0m too friable for test.

Scale (approx)

1:25

Logged By

HC

Figure No.

23046 TP16



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP17

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 115.40		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443983 E 291546 N		Dates 31/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				115.10	(0.30) 0.30	Dark brown slightly gravelly sandy CLAY. Gravel is fine to medium subangular to rounded brick and chert. - (TOPSOIL)		
				114.60	(0.50) 0.80	Firm light greyish brown slightly sandy CLAY. - (OADBY MEMBER)		
						Complete at 0.80m		

Plan					Remarks			
.	.	.	.	.	Water pipe encountered at 0.8m; pipe fixed and trial pit abandoned.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx) 1:25		Logged By DP	Figure No. 23046.TP17



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP18

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 116.70		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443821 E 291452 N		Dates 01/06/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.40	D				(0.60)	Dark brown slightly gravelly sandy CLAY with occasional roots. Gravel is medium to coarse subangular to subrounded mudstone, chert and sandstone. - (TOPSOIL)		
0.70	HSV 70.35kPa		62,78.70/Av. 70.35	116.10	0.60 (0.40)	Firm light brown mottled dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subrounded to subangular chalk and coal. - (OADBY MEMBER)		
1.50	D		Water strike(1) at 1.60m.	115.70	1.00 (0.70)	Orangish brown slightly gravelly clayey SAND. Sand is medium to coarse grained. Gravel is fine to medium subangular to subrounded chalk and mudstone. - (WOLSTON SAND AND GRAVEL)		
				115.00	1.70 (1.40)	Firm grey gravelly CLAY. Gravel is fine to medium subangular to subrounded chalk and mudstone. - (BOSWORTH CLAY)		▽1
				113.60	3.10	Complete at 3.10m		

Plan					Remarks			
.	.	.	.	.	Hand shear vane undertaken at 0.7m in-situ, material below 1.0m too friable for test. Pit sides stable during excavation. Groundwater encountered at 1.6m during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)	Logged By	Figure No.	
					1:25	HC	23046.TP18	



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP19

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 116.40		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443777 E 291425 N		Dates 01/06/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				(0.60)	Dark brown slightly gravelly sandy CLAY with occasional roots. Gravel is medium to coarse subrounded to subangular mudstone, chert and sandstone. - (TOPSOIL)		
0.70	HSV 76.67kPa		72,78,80/Av. 76.67	115.80	0.60	Stiff light brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular to angular chalk and coal. - (OADBY MEMBER)		
0.80	D				(0.60)			
				115.20	1.20	Stiff grey slightly sandy gravelly CLAY with occasional pockets of orangish brown sand. Gravel is fine to coarse subangular to subrounded chalk, coal, mudstone, siltstone, limestone and sandstone. - (OADBY MEMBER)		
					(1.00)			
				114.20	2.20	Stiff grey and light brown slightly sandy gravelly CLAY. Gravel is fine to medium subangular to subrounded chalk, mudstone and limestone. - (OADBY MEMBER)		
				113.95	2.45	Stiff grey slightly sandy gravelly CLAY with occasional pockets of orangish brown sand. Gravel is fine to coarse subangular to subrounded chalk, coal, mudstone, siltstone, limestone and sandstone. - (OADBY MEMBER)		
					(0.55)			
2.80	D			113.40	3.00	Complete at 3.00m		

Plan					Remarks			
.	.	.	.	.	Groundwater not encountered during excavation. Hand shear vane undertaken at 0.7m in-situ, material below 1.0m too friable for test. Pit sides stable during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		HC	23046.TP19



Bullfurlong Lane, Burbage

Job
Number
23046

Dimensions

Ground Level (mOD)

Client	
---------------	--

Redrow Homes Limited and Mr Farmer

Job
Number
23046

Method : Trial Pit

Location (Handheld GPS)

Dates

30/05/2023

Engineer

Travis Baker Geo-Environmental Limited

Sheet
1/1

443916 F 291455 N

 $\mathbf{y}_1$

Remarks

Hand shear vane undertaken at 0.65m in-situ, material below 1.0m too friable for test.
Pit sides stable during excavation.
Slight groundwater seepage encountered at 2.7m during excavation.

Scale (approx)

1.25

Logged By

DP

Figure No.

23046 TP20



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP21

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 114.80		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444019 E 291489 N		Dates 01/06/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				(0.50)	Dark brown slightly sandy slightly gravelly CLAY. Gravel is medium to coarse subrounded to rounded mudstone and limestone. - (TOPSOIL)		
0.65	HSV 43.33kPa		40,40,50/Av. 43.33	114.30	0.50 (0.50)	Firm light brown slightly gravelly sandy CLAY. Gravel is fine to medium subrounded to rounded chalk and mudstone. - (OADBY MEMBER)		
1.40	D		Water strike(1) at 1.80m.	113.80	1.00 (1.10)	Greyish brown clayey GRAVEL. Gravel is fine to medium chalk, sandstone, limestone, mudstone and quartzite. - (WOLSTON SAND AND GRAVEL)		
				112.70	2.10 (0.90)	Stiff grey slightly gravelly CLAY with pockets of orangish brown sand. Gravel is fine to medium subrounded to rounded chalk and coal. - (BOSWORTH CLAY FORMATION)		
				111.80	3.00	Complete at 3.00m		

Plan					Remarks			
.	.	.	.	.	Groundwater encountered at 1.8m causing slurring of coarse soils and spalling of side walls below 1.3m during excavation. Hand shear vane undertaken at 0.65m in-situ, material below 1.0m too friable for test.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx) 1:25		Logged By HC	Figure No. 23046.TP21



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP22

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 111.20		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444142 E 291528 N		Dates 30/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.40)	Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse rounded to subrounded quartzite. - (TOPSOIL)		
0.70	D			110.80	0.40	Firm brown slightly sandy slightly gravelly CLAY. Gravel is medium to coarse subrounded to rounded mudstone and sandstone. - (OADBY MEMBER)		
0.80	HSV 65.33kPa		61,71,64/Av. 65.33		(0.60)			
			Water strike(1) at 1.10m.	110.20	1.00	Stiff reddish brown slightly sandy to sandy slightly gravelly CLAY. Gravel is fine to coarse subangular to rounded sandstone, coal and chert. - (OADBY MEMBER)		V1
					(1.10)			
2.00	HSV 52.67kPa		54,54,50/Av. 52.67	109.10	2.10	Firm grey slightly sandy gravelly CLAY. Gravel is fine to medium rounded chalk and chert. - (BOSWORTH CLAY FORMATION)		
			Water strike(2) at 2.40m.	108.80	2.40	Stiff grey very gravelly CLAY. Gravel is fine to coarse subangular to rounded limestone, chalk and chert. - (BOSWORTH CLAY FORMATION)		V2
					(0.60)			
				108.20	3.00	Complete at 3.00m		

Plan					Remarks			
.	.	.	.	.	Hand shear vane undertaken at 0.8m in-situ and on disturbed samples below 1.0m. Pit sides stable during excavation. Slow groundwater seepage from a single point encountered at 1.1m and 2.4m causing slurring during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		DP	23046.TP22



Bullfurlong Lane, Burbage

**Trial Pit
Number**
TP23

Method : Trial Pit

Dimensions

109 20

Client	
---------------	--

Redrow Homes Limited and Mr Farmer

**Job
Number**
23046

Location (Handheld GPS)

444183 F 291575 N

Dates

25/05/2023

Engineer

Travis Baker Geo-Environmental Limited

Sheet
1/1

 ∇_1

Plan

Remarks

Groundwater inflow encountered at two point sources from 1.8m causing spalling of pit side walls.
Hand shear vane undertaken at 0.7m in-situ and on disturbed samples below 1.0m.

Scale (approx)

1:25

Logged By

DP

Figure No.

23046 TP23



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP24

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 111.30		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444157 E 291509 N		Dates 25/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.35)	Dark brown slightly gravelly sandy CLAY. Gravel is medium to coarse well rounded to rounded chert. - (TOPSOIL)		
				110.95	0.35	Firm reddish brown silty sandy CLAY with occasional orangish brown sandy bands. - (OADBY MEMBER)		
0.70	D				(0.85)			
0.80	HSV 61.67kPa		59,57,69/Av. 61.67					
			Water strike(1) at 1.20m.	110.10	1.20	Firm to stiff reddish brown locally mottled light grey slightly gravelly sandy CLAY. Gravel is fine to medium well rounded to rounded chert and limestone. - (OADBY MEMBER)		V1
1.70	HSV 65.67kPa		76,52,69/Av. 65.67		(1.30)			
				108.80	2.50	Stiff greyish brown slightly gravelly silty CLAY. Gravel is fine subangular chert and rare obsidian. - (BOSWORTH CLAY FORMATION)		
					(0.60)			
				108.20	3.10	Complete at 3.10m		

Plan					Remarks			
.	.	.	.	.	Pit sides stable during excavation. Hand shear vane undertaken at 0.8m in-situ and on disturbed samples below 1.0m. Very slow groundwater inflow from a single point encountered at 1.2m during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		DP	23046.TP24



Bullfurlong Lane, Burbage

**Trial Pit
Number**
TP25

Method : Trial Pit

Dimensions

Ground Level (mOD)

116 50

Client	
---------------	--

Redrow Homes Limited and Mr Farmer

Job	Rate	Time	Cost
1	10	10	100
2	20	20	400
3	30	30	900
4	40	40	1600
5	50	50	2500
6	60	60	3600
7	70	70	4900
8	80	80	6400
9	90	90	8100
10	100	100	10000

Number
23046

Location (Handheld GPS)

443876 F 291661 N

Dates

31/05/2023

Engineer

Travis Baker Geo-Environmental Limited

Sheet

1/1

 $\mathbb{Y}_1$

Plan

Remarks

Groundwater not encountered during excavation after 5 minutes
groundwater encountered at 3.0m.
Pit sides collapsed below 1.8m following excavation.
Hand shear vane undertaken at 0.6m in-situ, material below 1.0m too friable for test.

Scale (approx)

1:25

Logged By

DP

Figure No.

23046 TP25



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP26

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 116.60		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443871 E 291418 N		Dates 01/06/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.40)	Dark brown slightly gravelly sandy CLAY with occasional roots. Gravel is medium to coarse subrounded to subangular mudstone, chert and sandstone. - (TOPSOIL)		
0.70	HSV 69.33kPa		70,68,70/Av. 69.33	116.20	0.40	Firm light brown mottled dark brown slightly sandy slightly gravelly CLAY with rare roots. Gravel is fine to medium subangular to subrounded chalk and coal. - (OADBY MEMBER)		
1.20	D				(1.05)			
				115.15	1.45	Stiff grey slightly gravelly becoming gravelly CLAY with occasional pockets of orangish brown sand and a cobble of limestone. Gravel is fine to coarse subangular to rounded mudstone, quartzite and chalk. - (BOSWORTH CLAY MEMBER)		
					(1.55)			
2.50	D							
				113.60	3.00	Complete at 3.00m		

Plan					Remarks			
.	.	.	.	.	Pit sides stable during excavation. Groundwater not encountered during excavation. Hand shear vane undertaken at 0.7m in-situ, material below 1.0m too friable for test.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)	Logged By	Figure No.	
					1:25	HC	23046.TP26	



Travis Baker Geo-Environmental Ltd

Site Bullfurlong Lane, Burbage	Trial Pit Number TP27
--	--

Machine : JCB 3CX Method : Trial Pit	Dimensions	Ground Level (mOD) 116.00	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location 443782 E 291394 N	Dates 01/06/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.40	D				(0.50)	Dark brown slightly sandy slightly gravelly CLAY with occasional roots. Gravel is medium to coarse subrounded to subangular mudstone, chert and quartzite. - (TOPSOIL)		
0.60	HSV 70kPa		70,70,70/Av. 70.00	115.50	0.50	Firm light brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular to rounded coal, mudstone and quartzite. - (OADBY MEMBER)		
0.70	D			115.10	0.90	Firm reddish brown slightly gravelly clayey SAND. Sand is medium to coarse grained. Gravel is fine to medium subrounded to subangular chalk. - (WOLSTON SAND AND GRAVEL)		
			Water strike(1) at 1.50m.	114.40	1.60	Stiff grey slightly sandy gravelly becoming very gravelly CLAY with occasional pockets of light brown gravelly sand. Gravel is fine to coarse subangular to subrounded chalk, mudstone, quartzite, limestone and sandstone. - (BOSWORTH CLAY)		V1
2.60	D				(1.40)			
				113.00	3.00	Complete at 3.00m		

Plan	Remarks Pit sides stable during excavation. Slight groundwater seepage encountered at 1.5m during excavation. Hand shear vane undertaken at 0.6m in-situ, material below 1.0m too friable for test.									
							Scale (approx) 1:25	Logged By HC	Figure No. 23046.TP27	



Bullfurlong Lane, Burbage

**Trial Pit
Number**
TP28

Method : Trial Pit

Dimensions

Ground Level (mOD)

109 90

Client	
---------------	--

Redrow Homes Limited and Mr Farmer

**Job
Number**
23046

Location (Handheld GPS)

444397 F 291676 N

Dates

24/05/2023

Engineer

Travis Baker Geo-Environmental Limited

Sheet
1/1

 ∇_1

Plan

Remarks

Hand shear vane not possible in coarse soil, below 1.0m material too soft to form a suitable disturbed sample for test.
Slight groundwater seepage encountered at 3.1m during excavation.
Side wall collapsed from 2.2m not caused by groundwater.

Scale (approx)

1:25

Logged By

HC

Figure No.

23046 TP28



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP29

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 111.40		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444449 E 291705 N		Dates 24/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.50)	Brown sandy CLAY. - (TOPSOIL)		
0.70	HSV 61.67kPa		70, 60, 55 /Av. 61.67	110.90	0.50	Firm orangish brown mottled brown slightly gravelly silty sandy CLAY. Gravel is medium to coarse subrounded chert, coal and quartzite. - (OADBY MEMBER)		
1.80	D		Water strike(1) at 1.80m.	109.70	1.70	Brown slightly clayey silty gravelly SAND. Sand is medium to coarse grained. Gravel is medium to coarse subangular to subrounded quartzite and chert. - (WOLSTON SAND AND GRAVEL)		∇1
2.00	HSV 66.67kPa		60, 70, 70/Av. 66.67	109.40	2.00	Firm grey slightly gravelly CLAY. Gravel is fine to medium chalk. - (BOSWORTH CLAY MEMBER)		
				109.20	2.20	Complete at 2.20m		

Plan					Remarks			
.	.	.	.	.	Steady groundwater inflow from 1.8m during excavation promoting side wall collapse. Continuous collapse for a short period following excavation. Hand shear vane tested in-situ at 0.7m and on a disturbed sample from 2.0m. Trial pit terminated at 2.2m due to groundwater and trial pit instability.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		HC	23046.TP29



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP30

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 110.00		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444468 E 291665 N		Dates 24/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D			109.70	(0.30) 0.30	Brown slightly gravelly sandy CLAY. Gravel is fine to coarse subrounded chalk, coal and quartzite. - (TOPSOIL)		
1.20	D				(1.10)	Firm brown slightly sandy slightly gravelly CLAY. Gravel is medium to coarse subangular to angular chalk, coal and quartzite. - (OADBY MEMBER)		
1.30	HSV 70.67kPa		68, 70, 74/Av. 70.67	108.60	1.40	Firm grey mottled brown slightly silty slightly gravelly CLAY with frequent cobbles of mudstone. Gravel is fine subrounded chalk. - (OADBY MEMBER)		
					(0.50)			
				108.10	1.90	Stiff brown mottled grey, orangish brown and black slightly gravelly CLAY. Gravel is fine to medium subrounded chalk and mudstone. - (OADBY MEMBER)		
					(0.50)			
2.30	HSV 96kPa		104, 90, 94/Av. 96.00	107.60	2.40	Stiff grey slightly gravelly silty sandy CLAY. Gravel is fine to medium subrounded chalk. - (BOSWORTH CLAY MEMBER)		
					(0.80)			
2.80	D			106.80	3.20	Complete at 3.20m		

Plan					Remarks			
.	.	.	.	.	Groundwater not encountered during excavation. Hand shear vane tested in-situ at 0.7m and on a disturbed sample from 2.3m. Pit sides stable.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)	Logged By	Figure No.	
					1:25	HC	23046.TP30	



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP31

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 107.90		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444417 E 291608 N		Dates 24/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.40)	Brown slightly clayey slightly gravelly SAND. Gravel is fine to coarse subrounded chalk, coal and quartzite. - (TOPSOIL)		
0.80	HSV 34.67kPa		32,32,40/Av. 34.67	107.50	0.40	Soft light brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is medium to coarse rounded to subrounded mudstone and fine to medium subrounded to subangular chalk. - (OADBY MEMBER)		
				106.50	1.40	Firm brown mottled grey, orangish brown and black slightly silty slightly gravelly CLAY. Gravel is fine to coarse subrounded to rounded mudstone and chalk. - (OADBY MEMBER)		
				105.70	2.20	Firm grey silty CLAY. - (BOSWORTH CLAY FORMATION)		V1
			Water strike(1) at 2.20m.	104.50	3.40	Complete at 3.40m		

Plan					Remarks			
.	.	.	.	.	Pit sides stable during excavation. Slight groundwater seepage encountered at 2.2m during excavation. Hand shear vane undertaken at 0.8m in-situ, material below 1.0m too friable for test.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)	Logged By	Figure No.	
					1:25	DP	23046.TP31	



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP32

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 107.70		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444369 E 291626 N		Dates 24/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				(0.50)	Brown slightly clayey slightly gravelly SAND. Gravel is fine to coarse subrounded to subangular chalk, coal, quartzite, brick and ceramic. - (TOPSOIL)		
0.50	D			107.20	0.50	Firm light brown slightly gravelly sandy CLAY. Gravel is fine to coarse subrounded to rounded chalk, coal and mudstone. - (OADBY MEMBER)		
0.70	HSV 47.33kPa		52,35,55/Av. 47.33		(0.80)			
				106.40	1.30	Firm grey slightly gravelly silty CLAY. Gravel is fine to medium subangular to subrounded chalk. - (BOSWORTH CLAY FORMATION)		
					(2.00)			
3.00	HSV 45kPa		50,40,45/Av. 45.00					
				104.40	3.30	Complete at 3.30m		

Plan					Remarks			
.	.	.	.	.	Pit sides stable during excavation. Groundwater not encountered during excavation. Hand shear vane undertaken at 0.7m in-situ and on disturbed samples below 1.0m.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		HC	23046.TP32



Bullfurlong Lane, Burbage

Job
Number
23046

Method : Trial Pit

Ground Level (mOD)

115 90

Redrow Homes Limited and Mr Farmer

443900 E 291311 N

01/06/2023

Travis Baker Geo-Environmental Limited

1/1

[illegible]

Pit sides stable during excavation.
Hand shear vane undertaken at 0.55m in-situ and on disturbed samples below 1.0m.
Groundwater not encountered during excavation.

1:25

HC

23046 TP33



Bullfurlong Lane, Burbage

Job
Number
23046

Method : Trial Pit

Dimensions

Ground Level (mOD)

115 50

Client	
---------------	--

Redrow Homes Limited and Mr Farmer

Location (Handheld GPS)

444016 F 291365 N

Dates

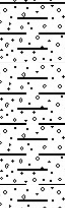
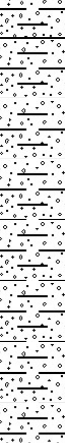
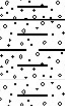
25/05/2023

Engineer

Travis Baker Geo-Environmental Limited

Sheet

1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.40)	Dark brown sandy CLAY. - (TOPSOIL)		
0.40	D			115.10	0.40 (0.20)	Firm brown slightly gravelly sandy CLAY. Gravel is fine to medium subangular to subrounded chert and coal. - (OADBY MEMBER)		
0.80 0.90	HSV 78kPa D		61, 80, 51, 75, 106, 95/Av. 78.00	114.90	0.60 (0.80)	Soft becoming firm at 0.8m greyish brown slightly gravelly sandy CLAY with occasional pockets of reddish brown silty sand. Gravel is fine to medium subrounded to subangular chert, chalk and limestone. - (OADBY MEMBER)		
1.60	B		Water strike(1) at 1.40m.	114.10	1.40	Stiff greyish brown slightly sandy gravelly CLAY with a cobble of limestone, sandstone and siltstone . Gravel is medium to coarse subrounded to rounded chalk, limestone, chert and sandstone. - (BOSWORTH CLAY MEMBER)		✓
2.00	D				(1.40)			
				112.70	2.80 (0.30)	Very stiff greyish brown slightly sandy gravelly CLAY. Gravel is medium to coarse subrounded to rounded chalk, limestone, chert and sandstone. - (BOSWORTH CLAY MEMBER)		
				112.40	3.10	Complete at 3.10m		

Remarks

Slow groundwater ingress encountered at 1.4m from a single point causing localised slurry.
Hand shear vane tests undertaken at 0.8m in-situ however, soils below 1.5m are too friable for tests on disturbed samples.
Clay pockets with higher sand content exhibited firm consistency when tested with hand shear vane (i.e. between 51 and 75kPa) however, field tests indicate areas to exhibit a soft to firm consistency.
Variability of hand shear vane results at 0.8m due to variability of ground conditions between fine and coarse soils.

Scale (approx)

1.25

Logged By

DP

Figure No.

23046 TP35



Travis Baker Geo-Environmental Ltd

Site Bullfurlong Lane, Burbage	Trial Pit Number TP36
Client Redrow Homes Limited and Mr Farmer	Job Number 23046
Engineer Travis Baker Geo-Environmental Limited	Sheet 1/1

Machine : JCB 3CX Method : Trial Pit	Dimensions	Ground Level (mOD) 114.80
	Location (Handheld GPS) 444105 E 291400 N	Dates 25/05/2023

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D					Dark brown slightly organic slightly gravelly sandy CLAY. Gravel is fine to coarse angular and rounded concrete, brick, chert and tree debris with rare cobbles of whole brick and concrete slab. - (MADE GROUND)		
1.50	D				(2.85)			
3.00	D			111.95	2.85	Firm light brown and light grey sandy CLAY with occasional sandy bands. - (OADBY MEMBER)		
				111.40	3.40	Complete at 3.40m		

Plan	Remarks		
	Pit sides stable during excavation. Groundwater not encountered during excavation. Hand shear vane not possible above 1.0m due to cobble content, materials recovered below are to friable.		
	Scale (approx)	Logged By	Figure No.
	1:25	DP	23046.TP36



Bullfurlong Lane, Burbage

**Trial Pit
Number**
TP37

Method : Trial Pit

Dimensions

108.70

Redrow Homes Limited and Mr Farmer

**Job
Number**
23046

Location

444220 F 291530 N

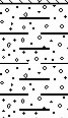
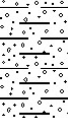
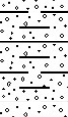
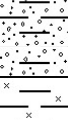
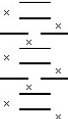
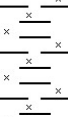
Dates

24/05/2023

Engineer

Travis Baker Geo-Environmental Limited

Sheet
1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Notes
0.10	D				(0.40)	Brown slightly clayey slightly gravelly SAND. Gravel is fine to coarse subrounded chalk, quartzite and coal. - (TOPSOIL)		
0.40	D			108.30	0.40	Firm brown slightly sandy slightly gravelly CLAY. Gravel is medium to coarse subangular to angular chert and chalk. - (OADBY MEMBER)		
0.80	HSV 63kPa		70,55,64/Av. 63.00		(0.90)			
				107.40	1.30	Firm dark grey mottled brown gravelly CLAY with occasional pockets of orangish brown sand. Gravel is firm to medium subrounded to rounded chalk, quartzite and mudstone. - (OADBY MEMBER)		
				106.90	1.80	Stiff grey mottled brown silty CLAY. - (BOSWORTH CLAY)		
					(1.20)			
				105.70	3.00	Complete at 3.00m		

Plan

Remarks

Pit sides stable during excavation.
Hand shear vane undertaken at 0.8m in-situ, material below 1.0m too friable for test.
Groundwater not encountered during excavation.

Scale (approx)

1:25

Logged By

HC

Figure No.

23046 TP37



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP38

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 106.60		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444264 E 291580 N		Dates 24/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				(0.50)	Brown slightly sandy CLAY. Gravel is fine to coarse subrounded to subangular chalk, quartzite and coal. - (TOPSOIL)		
0.70	HSV 37.33kPa		40,36,36/Av. 37.33	106.10	0.50 (0.50)	Soft brown slightly sandy slightly gravelly CLAY. Gravel is medium subrounded mudstone. - (ALLUVIUM)		
				105.60	1.00 (0.80)	Soft brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is medium subrounded mudstone. - (ALLUVIUM)		
1.60	D			104.80	1.80 (0.40)	Firm orangish brown slightly gravelly sandy CLAY. Gravel is fine to coarse subrounded to rounded chalk, quartzite and mudstone. - (OADBY MEMBER)		
				104.40	2.20 (0.80)	Firm grey mottled orangish brown slightly gravelly CLAY. Gravel is medium subrounded to rounded quartzite. - (OADBY MEMBER)		
			Water strike(1) at 3.00m.	103.60	3.00	Complete at 3.00m		V1

Plan					Remarks			
.	.	.	.	.	Hand shear vane undertaken at 0.7m in-situ, material below 1.0m too friable for test. Pit sides stable during excavation. Slow groundwater seepage encountered at 3.0m during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx) 1:25		Logged By HC	Figure No. 23046.TP38



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP39

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 107.50		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444214 E 291598 N		Dates 25/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.60)	Brown slightly gravelly clayey SAND. Gravel is fine to coarse subrounded to subangular chalk, quartzite, mudstone and coal. - (TOPSOIL)		
0.80 0.80	HSV 35.33kPa D		30,38,38/Av. 35.33	106.90	0.60 (0.60)	Soft orangish brown mottled brown slightly gravelly sandy CLAY with a cobble of mudstone. Gravel is medium to coarse mudstone and quartzite. - (ALLUVIUM)		
1.70	HSV 87.33kPa		82,90,90/Av. 87.33	106.30	1.20	Firm grey mottled brown silty CLAY. - (BOSWORTH CLAY MEMBER)		
2.00	D				(1.80)			
				104.50	3.00	Complete at 3.00m		

Plan					Remarks			
.	.	.	.	.	Groundwater not encountered during excavation. Pit sides stable during excavation. Hand shear vane undertaken at 0.7m in-situ and on disturbed samples below 1.0m.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		HC	23046.TP39



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP40

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 109.00		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location 444151 E 291646 N		Dates 26/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30	D			108.60	(0.40) 0.40	Brown slightly clayey slightly gravelly SAND with occasional roots. Gravel is subrounded to rounded mudstone. - (TOPSOIL)		
0.70	HSV 59.33kPa		68,50,60/Av. 59.33			Firm light brown slightly gravelly sandy CLAY. Gravel is fine to medium subangular to rounded chalk and mudstone. - (OADBY MEMBER)		
1.00	D				(1.10)			
				107.50	1.50	Firm grey slightly gravelly silty CLAY with occasional pockets of orangish brown sand and a cobble of chalk. Gravel is fine to coarse subrounded to subangular chalk, mudstone and sandstone. - (BOSWORTH CLAY)		
2.70	D				(1.70)			
3.10	HSV 58kPa		62,62,50/Av. 58.00	105.80	3.20	Complete at 3.20m		

Plan					Remarks			
.	.	.	.	.	Pit sides stable during excavation. Groundwater not encountered during excavation. Hand shear vane undertaken at 0.7m in-situ and on disturbed samples below 1.0m.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)	Logged By	Figure No.	
					1:25	HC	23046.TP40	



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP41

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 110.10		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444115 E 291735 N		Dates 26/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30	D			109.70	0.40	Dark brown slightly sandy slightly gravelly CLAY with occasional roots. Gravel is medium subangular to angular mudstone and sandstone. - (TOPSOIL)		
0.80 0.80	HSV 44kPa D		42,48,42/Av. 44.00	109.10	1.00	Soft becoming firm at 0.8m light brown mottled grey slightly gravelly sandy CLAY. Gravel is medium quartzite and mudstone. - (OADBY MEMBER)		
2.30	D				(2.20)	Firm becoming stiff at 2.9m grey slightly gravelly CLAY with occasional pockets of orangish brown clay. Gravel is fine to medium subrounded to rounded chalk. - (BOSWORTH CLAY)		
3.00	HSV 106.67kPa		120,102,98/Av. 106.67	106.90	3.20	Complete at 3.20m		

Plan					Remarks			
.	.	.	.	.	Hand shear vane undertaken at 0.8m in-situ and on disturbed samples below 1.0m. Pit sides stable during excavation. Groundwater not encountered during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx) 1:25		Logged By HC	Figure No. 23046.TP41



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP42

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 117.40		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443848 E 291578 N		Dates 31/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.40)	Dark brown slightly gravelly sandy CLAY. Gravel is medium rounded quartzite. - (TOPSOIL)		
0.80 0.80	HSV 61.67kPa D		51,69,65/Av. 61.67	117.00	0.40	Firm brown and orangish brown slightly gravelly sandy CLAY. Gravel is fine to medium rounded to subrounded chert and quartzite. - (OADBY MEMBER)		
1.60	D			116.00	1.40	Stiff greyish brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular chalk and chert. - (BOSWORTH CLAY MEMBER)		
2.00 2.00	HSV 126kPa B		130,124,124/Av. 126.00		(1.30)			
				114.70	2.70	Very stiff greyish brown CLAY. - (BOSWORTH CLAY MEMBER)		
				114.40	3.00	Complete at 3.00m		

Plan					Remarks			
.	.	.	.	.	Groundwater not encountered during excavation. Hand shear vane undertaken at 0.7m in-situ and on disturbed samples below 1.0m. Pit sides stable during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		DP	23046.TP42



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP43

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 116.90		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443748 E 291486 N		Dates 30/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				(0.40)	Dark brown slightly gravelly clayey SAND. Sand is medium grained. Gravel is medium to coarse subrounded to rounded mudstone and quartzite. - (TOPSOIL)		
				116.50	0.40			
				116.30	0.60			
0.70	HSV 64kPa		68,64,60/Av. 64.00		(0.65)	Firm light orangish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subrounded to rounded mudstone and chalk. - (OADBY MEMBER)		
1.10	D				1.25			
				115.65				
					(1.85)	Stiff grey mottled brown very gravelly CLAY with occasional pockets of orangish brown medium grained sand and a cobble of limestone. Gravel is fine to coarse subrounded to subangular chalk, limestone and siltstone. - (OADBY MEMBER)		
2.60	D				3.10			
				113.80				
						Complete at 3.10m		

Plan					Remarks			
.	.	.	.	.	Groundwater not encountered during excavation. Pit sides stable during excavation. Hand shear vane undertaken at 0.7m in-situ, material below 1.0m too friable for test.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		HC	23046.TP43



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP44

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 114.40		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443809 E 291285 N		Dates 01/06/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30	D				(0.40)	Dark brown sandy slightly gravelly CLAY with occasional roots. Gravel is medium to coarse subrounded to subangular mudstone, chert and sandstone. - (TOPSOIL)		
0.60	D			114.00	0.40 (0.40)	Firm light brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subrounded to subangular chalk and coal. - (OADBY MEMBER)		
0.70	HSV 71.33kPa		72,68,74/Av. 71.33	113.60	0.80 (0.20)	Firm grey mottled light brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subrounded to rounded chalk, mudstone and sandstone. - (OADBY MEMBER)		
				113.40	1.00 (0.70)	Stiff grey mottled light brown slightly sandy CLAY and orangish brown clayey slightly gravelly SAND. Gravel is fine to medium subrounded to rounded chalk, mudstone and sandstone.- (WOLSTON SAND AND GRAVEL)		
1.80	D			112.70	1.70 (1.30)	Stiff grey becoming dark grey slightly gravelly CLAY with a cobble of mudstone. Gravel is fine to medium subrounded to rounded chalk, mudstone and sandstone. - (BOSWORTH CLAY)		
				111.40	3.00	Complete at 3.00m		

Plan					Remarks			
.	.	.	.	.	Hand shear vane undertaken at 0.6m in-situ, material below 1.0m too friable for test. Groundwater not encountered during excavation. Pit sides stable during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		HC	23046.TP44



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP45

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 117.00		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 443910 E 291559 N		Dates 31/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D				(0.30)	Dark brown slightly gravelly sandy CLAY. Gravel is fine to coarse rounded to well rounded chert. - (TOPSOIL)		
0.40	D			116.70	0.30	Stiff brown mottled orangish brown sandy CLAY. - (OADBY MEMBER)		
0.80	HSV 98kPa		112,91,95,105,87/Av. 98.00		(0.90)			
1.40	HSV 50kPa			115.80	1.20	Firm orangish brown and reddish brown sandy CLAY. - (OADBY MEMBER)		
1.40	D		50,46,54/Av. 50.00		(0.60)			
1.50	B			115.20	1.80	Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium rounded to well rounded chalk, chert and quartzite. - (BOSWORTH CLAY MEMBER)		
2.00	HSV 77kPa		69,64,98/Av. 77.00		(1.00)			
			Water strike(1) at 2.50m.					▽1
3.00	B			114.20	2.80	Very stiff grey slightly sandy slightly gravelly CLAY. Gravel is fine to medium rounded to well rounded chert and chalk. - (BOSWORTH CLAY)		
				114.00	3.00	Complete at 3.00m		

Plan					Remarks			
.	.	.	.	.	Hand shear vane undertaken at 0.8m in-situ and on disturbed samples below 1.0m. Slow groundwater inflow encountered from 1.2m causing spalling of pit side walls between 1.2m and 1.8m.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		DP	23046.TP45



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP46

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 110.00		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444499 E 291633 N		Dates 24/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D					Brown slightly sandy slightly gravelly CLAY with occasional pockets of orangish brown sand. Gravel is medium to coarse subangular chalk, coal and quartzite. - (TOPSOIL)		
0.75	HSV 92.67kPa		92,94,92/Av. 92.67	109.10	0.90	Firm brown mottled grey slightly gravelly silty CLAY. Gravel is fine to medium subrounded chalk, coal and rare limestone. - (OADBY MEMBER)		
				108.70	1.30	Firm grey mottled brown slightly gravelly silty CLAY with occasional pockets of orangish brown sand. Gravel is fine to medium subrounded chalk and rare limestone. - (OADBY MEMBER)		
			Water strike(1) at 2.20m.		(1.50)			V1
2.80	D			107.20	2.80	Brown slightly gravelly clayey silty SAND. Sand is medium to coarse. Gravel is fine rounded chert. - (WOLSTON SAND AND GRAVEL)		
				107.00	3.00	Complete at 3.00m		

Plan					Remarks			
.	.	.	.	.	Hand shear vane undertaken at 0.6m in-situ, material below 1.0m too friable for test. Groundwater seepage encountered at 2.2m during excavation. Pit sides stable.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		HC	23046.TP46



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP47

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 108.50		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444356 E 291646 N		Dates 24/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D			108.20	(0.30) 0.30	Brown slightly clayey slightly gravelly SAND. Gravel is fine to coarse subangular to subrounded chalk, quartzite and coal. - (TOPSOIL)		
0.80	HSV 54kPa		54,50,58/Av. 54.00		(1.00)	Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subrounded to rounded chalk. - (OADBY MEMBER)		
1.40	D		Water strike(1) at 1.60m.	107.20 106.90	1.30 (0.30) 1.60	Light brown gravelly SAND. Gravel is fine to coarse subrounded to rounded chalk, quartzite and mudstone. - (WOLSTON SAND AND GRAVEL)		V1
					(1.05) 2.65	Firm grey slightly gravelly CLAY with occasional pockets of clayey sandy gravel. Gravel is fine to coarse subangular to subrounded chalk, quartzite and mudstone. - (BOSWORTH CLAY)		
				105.85	2.65	Terminated at 2.65m		

Plan					Remarks			
.	.	.	.	.	Hand shear vane undertaken at 0.8m in-situ, material below 1.0m too friable for test. Groundwater encountered at 1.6m within coarse soils promoting pit side collapse between 1.3m and 1.6m during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		HC	23046.TP47



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP48

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 111.30		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444202 E 291433 N		Dates 26/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				(0.45)	Brown slightly clayey slightly gravelly SAND. Gravel is medium subrounded to rounded mudstone and chert. - (TOPSOIL)		
				110.85	0.45 (0.15)	Firm light brown slightly gravelly CLAY. Gravel is medium to coarse subangular to subrounded mudstone, chalk and quartzite. - (OADBY MEMBER)		
0.70	HSV 63.33kPa		60,62,68/Av. 63.33	110.70	0.60			
0.90	D				(0.50)	Firm orangish brown mottled grey slightly sandy slightly gravelly CLAY with occasional pockets of orangish brown medium grained sand. Gravel is fine to medium subangular to subrounded chalk and coal. - (OADBY MEMBER)		
				110.20	1.10	Firm grey slightly silty slightly gravelly CLAY. Gravel is fine to medium subrounded to subangular chalk. - (OADBY MEMBER)		
					(0.45)			
				109.75	1.55	Stiff dark brown slightly gravelly mottled light brown CLAY with occasional pockets of orange medium grained sand. Gravel is fine to coarse subrounded siltstone, mudstone and chalk. - (OADBY MEMBER)		
					(1.55)			
2.50	HSV 56kPa		52,56,60/Av. 56.00					
				108.20	3.10	Complete at 3.10m		

Plan					Remarks			
.	.	.	.	.	Pit sides stable during excavation. Groundwater not encountered during excavation. Hand shear vane undertaken at 0.7m in-situ and on disturbed samples below 1.0m.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		HC	23046.TP48



Bullfurlong Lane, Burbage

**Trial Pit
Number**
TP49

Method : Trial Pit

Dimensions

Ground Level (mOD)

113 20

Client	
---------------	--

Redrow Homes Limited and Mr Farmer

Job	Rate	Time	Cost
1	10	10	100
2	10	10	100
3	10	10	100
4	10	10	100
5	10	10	100
6	10	10	100
7	10	10	100
8	10	10	100
9	10	10	100
10	10	10	100
11	10	10	100
12	10	10	100
13	10	10	100
14	10	10	100
15	10	10	100
16	10	10	100
17	10	10	100
18	10	10	100
19	10	10	100
20	10	10	100
21	10	10	100
22	10	10	100
23	10	10	100
24	10	10	100
25	10	10	100
26	10	10	100
27	10	10	100
28	10	10	100
29	10	10	100
30	10	10	100
31	10	10	100
32	10	10	100
33	10	10	100
34	10	10	100
35	10	10	100
36	10	10	100
37	10	10	100
38	10	10	100
39	10	10	100
40	10	10	100
41	10	10	100
42	10	10	100
43	10	10	100
44	10	10	100
45	10	10	100
46	10	10	100
47	10	10	100
48	10	10	100
49	10	10	100
50	10	10	100
51	10	10	100
52	10	10	100
53	10	10	100
54	10	10	100
55	10	10	100
56	10	10	100
57	10	10	100
58	10	10	100
59	10	10	100
60	10	10	100
61	10	10	100
62	10	10	100
63	10	10	100
64	10	10	100
65	10	10	100
66	10	10	100
67	10	10	100
68	10	10	100
69	10	10	100
70	10	10	100
71	10	10	100
72	10	10	100
73	10	10	100
74	10	10	100
75	10	10	100
76	10	10	100
77	10	10	100
78	10	10	100
79	10	10	100
80	10	10	100
81	10	10	100
82	10	10	100
83	10	10	100
84	10	10	100
85	10	10	100
86	10	10	100
87	10	10	100
88	10	10	100
89	10	10	100
90	10	10	100
91	10	10	100
92	10	10	100
93	10	10	100
94	10	10	100
95	10	10	100
96	10	10	100
97	10	10	100
98	10	10	100
99	10	10	100
100	10	10	100

Number
23046

Location (Handheld GPS)

444033 F 291660 N

Dates

26/05/2023

Engineer

Travis Baker Geo-Environmental Limited

Sheet

1/1

1. ∇

Plan

Remarks

Hand shear vane undertaken at 0.75m in-situ, material below 1.0m too friable for test.
Groundwater encountered at 1.5m during excavation promoting complete side wall collapse from 1.5m.

Scale (approx)

1:25

Logged By

HC

Figure No.

23046 TP49



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
TP50

Machine : JCB 3CX Method : Trial Pit		Dimensions		Ground Level (mOD) 112.00		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444054 E 291758 N		Dates 30/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						Dark brown slightly gravelly sandy CLAY. Rare gravel of medium rounded quartzite. - (TOPSOIL)		
				111.60	0.40	Firm greyish brown very sandy CLAY. - (OADBY MEMBER)		
					(0.90)			
				110.70	1.30	Orangish brown silty gravelly SAND. Gravel is fine to medium rounded chert and quartzite. - (WOLSTON SAND AND GRAVEL)		
				110.40	1.60	Terminated at 1.60m		▽1
			Water strike(1) at 1.60m.					

Plan					Remarks			
.	.	.	.	.	Slight groundwater seepage encountered at 1.6m during excavation promoting side wall collapse from 1.3m. Hand shear vane not undertaken in trial pit.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		DP	23046.TP50



Bullfurlong Lane, Burbage

**Job
Number**
23046

Dimensions 2.1m x 0.6m

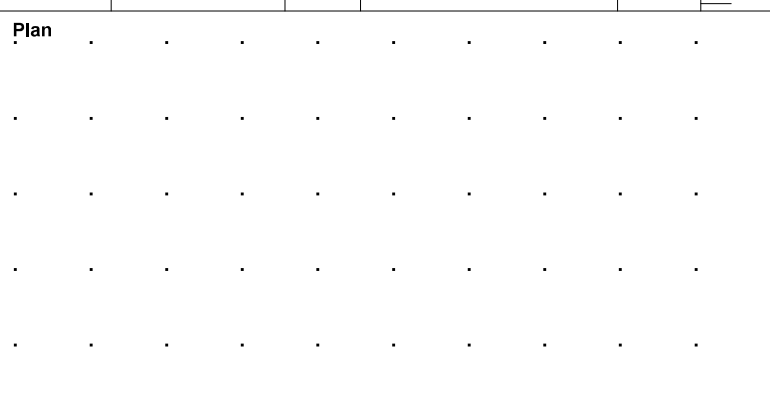
Ground Level (mOD)	116.70
--------------------	--------

Redrow Homes Limited and Mr Farmer

Dates	31/05/2023
--------------	------------

Travis Baker Geo-Environmental Limited

Sheet
1/1

Plan 	Remarks Infiltration test undertaken; see seperate sheet. Groundwater not encountered during excavation.		
	Scale (approx)	Logged By	Figure No.
	1:25	DP	23046.SA01



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
SA02

Machine : JCB 3CX Method : Trial Pit		Dimensions 1.9m x 0.6m		Ground Level (mOD) 116.70		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444048 E 291775 N		Dates 31/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						Dark brown sandy CLAY. Gravel is fine to medium subangular chert. - (TOPSOIL)		
				116.30	0.40	Reddish brown clayey gravelly SAND. Gravel is fine to coarse subrounded to subangular chert. - (WOLSTON SAND AND GRAVEL)		
					(0.80)			
				115.50	1.20	Reddish brown SAND with bands of grey clay. - (WOLSTON SAND AND GRAVEL)		
				115.40	1.30	Complete at 1.30m		

Plan					Remarks			
.	.	.	.	.	Infiltration test undertaken; see separate sheet. Groundwater not encountered during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		DP	23046.SA02



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Trial Pit Number
SA03

Machine : JCB 3CX Method : Trial Pit		Dimensions 2.2m x 0.6m		Ground Level (mOD) 108.00		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location (Handheld GPS) 444235 E 291550 N		Dates 31/05/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/1	

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
						Dark brown sandy CLAY. - (TOPSOIL)		
				107.10	0.90	Firm orangish brown to brown sandy CLAY. - (OADBY MEMBER)		
				106.60	1.40	Stiff dark reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is medium subangular chert. - (OADBY MEMBER)		
				106.00	2.00	Complete at 2.00m		

Plan					Remarks			
.	.	.	.	.	Infiltration test undertaken; see separate sheet. Groundwater not encountered during excavation.			
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
.	.	.	.	.				
					Scale (approx)		Logged By	Figure No.
					1:25		DP	23046.SA03

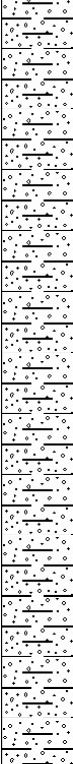
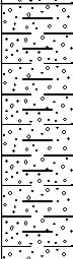


Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Borehole Number
CP01

Boring Method Cable Percussion	Casing Diameter		Ground Level (mOD) 117.03	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location 443885 E 291510 N		Dates 25/07/2023- 26/07/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 1/4

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.40 0.40	B J				116.63	0.40	Turf Topsoil. (Drillers description)		
1.00-1.45 1.00 1.00	SPT N=12 B D			1,2/2,3,3,4			Firm brown sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is subangular mudstone, chert, rounded quartzite and chalk. - (OADBY MEMBER)		
2.00	U1			23 blows					
2.45	D								
3.00-3.45 3.00 3.00 3.00	SPT N=26 B D J			2,3/5,6,7,8	114.03	3.00	Stiff dark brown slightly sandy slightly gravelly CLAY. Gravel is subangular mudstone and rounded quartzite and chalk. - (OADBY MEMBER)		
4.00-4.45 4.00 4.00	SPT N=30 B D			4,5/6,6,8,10					
						(3.00)			

Remarks Chiselling cobble (drillers description) between 7.4m and 7.6m. Backfilled with a combination of arisings and bentonite. Groundwater encountered at 6.0m rising to 3.9m after 20 minutes during drilling. Groundwater at 3.2m at start of shift 26/7/23; 4.5m at completion of borehole.	Scale (approx) 1:25	Logged By GR
		Figure No. 23046.CP01



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Borehole Number
CP01

Boring Method Cable Percussion	Casing Diameter		Ground Level (mOD) 117.03	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location 443885 E 291510 N		Dates 25/07/2023- 26/07/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 2/4

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
5.00	U1			25 blows					
5.45	D								
6.00 6.00 6.00 6.00-6.45	B D J SPT N=28			Water strike(1) at 6.00m, rose to 3.90m in 20 mins. 4,5/7,8,6,7	111.03	6.00 (0.60)	Medium dense dark brown clayey very gravelly SAND with occasional clay pockets. Gravel is subangular mudstone, chert, rounded quartzite and chalk. - (WOLSTON SAND AND GRAVEL)		▽1
6.60	B				110.43	6.60	Very stiff dark brown slightly gravelly locally gravelly CLAY. Gravel is subangular sandstone, mudstone, rounded quartzite and chalk. - (BOSWORTH CLAY MEMBER)		
7.00-7.45 7.00 7.00	SPT 50/295 B D			4,5/7,9,11,23					
8.00-8.45 8.00 8.00	SPT N=38 B D			3,5/7,8,10,13					
9.00-9.45 9.00 9.00 9.00	SPT N=31 B D J			4,5/6,7,8,10		(5.40)			
10.00-10.45	SPT 50/295			6,7/8,10,14,18					

Remarks

Chiselling cobble (drillers description) between 7.4m and 7.6m.
Backfilled with a combination of arisings and bentonite.
Groundwater encountered at 6.0m rising to 3.9m after 20 minutes during drilling. Groundwater at 3.2m at start of shift 26/7/23; 4.5m at completion of borehole.
Chiselling from 7.40m to 7.60m for 0.5 hours.

Scale (approx)
1:25

Logged By
GR

Figure No.
23046.CP01



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Borehole Number
CP01

Boring Method Cable Percussion	Casing Diameter		Ground Level (mOD) 117.03	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location 443885 E 291510 N		Dates 25/07/2023- 26/07/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 3/4

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.00 10.00	B D								
11.00-11.42 11.00 11.00	SPT 50/265 B D			7,8/9,12,15,14					
12.00-12.43 12.00 12.00 12.00	SPT 50/275 B D J			7,9/10,13,14,13	105.03	12.00	Very stiff dark brown and grey slightly gravelly locally gravelly CLAY. Gravel is subangular sandstone, mudstone, rounded quartzite and chalk. - (BOSWORTH CLAY MEMBER)		
13.00-13.45 13.00 13.00	SPT 50/295 B D			7,10/15,18,17					
14.00-14.42 14.00 14.00 14.00	SPT 50/265 B D J			6,9/12,13,15,10		(3.43)			
15.00-15.43	SPT 50/275			7,9/10,13,15,12					

Remarks Chiselling cobble (drillers description) between 7.4m and 7.6m. Backfilled with a combination of arisings and bentonite. Groundwater encountered at 6.0m rising to 3.9m after 20 minutes during drilling. Groundwater at 3.2m at start of shift 26/7/23; 4.5m at completion of borehole.	Scale (approx)	Logged By
	1:25	GR
	Figure No. 23046.CP01	



Bullfurlong Lane, Burbage

**Borehole
Number
CP01**

Boring Method
Cable Percussion

Casing Diameter

Ground Level (mOD)	117.03
--------------------	--------

Client
Redrow Homes Limited and Mr Farmer

Job
Number
23046

Location	443885 E 291510 N
----------	-------------------

Dates	25/07/2023- 26/07/2023
--------------	---------------------------

Engineer
Travis Baker Geo-Environmental Limited

Sheet
4/4

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
15.00	D				101.60	15.43	Complete at 15.43m		

Chiselling cobble (drillers description) between 7.4m and 7.6m.
Backfilled with a combination of arisings and bentonite.
Groundwater encountered at 6.0m rising to 3.9m after 20 minutes during drilling. Groundwater at 3.2m at start of shift 26/7/23; 4.5m at completion of borehole.

Scale
(approx)

1:25

Logged
By

GR

Figure No.
23046.CP01



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Borehole Number
CP02

Boring Method Cable Percussion	Casing Diameter		Ground Level (mOD) 112.10	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location (Handheld GPS) 444088 E 291572 N		Dates 09/06/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 1/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20-0.70	B				111.90	(0.20) 0.20	Dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is medium rounded mudstone. - (TOPSOIL)		
1.00-1.45 1.00-1.50	SPT N=11 B			1,1/2,2,3,4		(2.10)	Firm brown mottled light grey sandy slightly gravelly CLAY. Gravel is fine to coarse subrounded to subangular gravel of quartzite, chert, chalk coal and mudstone. - (OADBY MEMBER)		
2.00-2.45	SPT N=16			1,2/3,4,4,5			Very sandy clay laminations between 1.0m and 1.5m bgl.		
2.30-3.00	B			Water strike(1) at 2.30m, rose to 2.20m in 20 mins.	109.80	2.30	Firm becoming stiff at 3.5m greyish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subrounded to subangular gravel of siltstone, mudstone, sandstone, limestone and coal. - (BOSWORTH CLAY MEMBER)		▼1 ▽1
3.00-3.45	U			24 blows					
3.45-3.60	D								
4.00-4.45 4.00-4.50	SPT N=23 B			3,4/5,6,6,6					

Remarks Borehole collapsing below casing put down to 10.5m, no progress made after 1 hour, borehole abandoned. Backfilled with a combination of arisings and bentonite. Groundwater encountered at 2.3m and 7.5m during drilling.	Scale (approx) 1:25	Logged By DP
	Figure No. 23046.CP02	



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Borehole Number
CP02

Boring Method Cable Percussion	Casing Diameter		Ground Level (mOD) 112.10	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location (Handheld GPS) 444088 E 291572 N		Dates 09/06/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 2/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
5.00-5.45	U			30 blows		(5.30)			
5.45-5.60	D								
6.00-6.45 6.00-6.50	SPT N=23 B			2,3/4,5,6,8					
7.00-7.45 7.00-7.50	SPT N=22 B			3,3/4,5,6,7					
7.60-8.00	B			Water strike(2) at 7.50m, rose to 6.80m in 20 mins.	104.50	7.60	Stiff grey slightly sandy SILT interbedded with grey silty sandy CLAY with occasional bands of grey silty sand. Sand is fine grained. - (BOSWORTH CLAY MEMBER)		
8.00-8.45 8.00-8.50	SPT N=23 B			2,3/4,5,6,8					
9.00-9.45 9.00-9.50	SPT N=29 B			8,4/5,6,8,10					
10.00-10.45	SPT N=19			2,3/3,4,5,7					

Remarks Borehole collapsing below casing put down to 10.5m, no progress made after 1 hour, borehole abandoned. Backfilled with a combination of arisings and bentonite. Groundwater encountered at 2.3m and 7.5m during drilling.	Scale (approx)	Logged By
	1:25	DP
	Figure No. 23046.CP02	



Travis Baker Geo-Environmental Ltd

Site Bullfurlong Lane, Burbage	Borehole Number CP02
Client Redrow Homes Limited and Mr Farmer	Job Number 23046
Engineer Travis Baker Geo-Environmental Limited	Sheet 3/3

Boring Method Cable Percussion	Casing Diameter	Ground Level (mOD) 112.10
	Location (Handheld GPS) 444088 E 291572 N	Dates 09/06/2023

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.00-10.50	B					(4.90)			
11.00-11.45 11.00-11.50	SPT N=28 B			3,4/5,6,8,9					
12.50-12.95	SPT N=31			3,4/6,7,8,10	99.60	12.50	Abandoned at 12.65m		

Remarks Borehole collapsing below casing put down to 10.5m, no progress made after 1 hour, borehole abandoned. Backfilled with a combination of arisings and bentonite. Groundwater encountered at 2.3m and 7.5m during drilling.	Scale (approx) 1:25	Logged By DP
	Figure No. 23046.CP02	



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Borehole Number
CP03

Boring Method Cable Percussion	Casing Diameter		Ground Level (mOD) 111.20	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location (Handheld GPS) 444427 E 291710 N		Dates 08/06/2023- 09/06/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 1/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20-0.70	B				111.00	(0.20) 0.20	Dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is medium rounded mudstone. (TOPSOIL) Soft reddish brown and light brown sandy CLAY with occasional bands of light brown sand. - (OADBY MEMBER)		
1.00-1.45 1.00-1.50	SPT N=5 B			1,0/1,1,1,2		(1.80)			
2.00-2.50 2.00-2.45	B SPT N=12			Water strike(1) at 2.00m, rose to 1.70m in 20 mins. 2,2/2,3,3,4	109.20	2.00 (0.50)	Firm brown silty sandy CLAY with clayey sand pockets. - (OADBY MEMBER)		▼1 ▽1
					108.70	2.50 (0.50)	Firm reddish brown and grey slightly sandy very gravelly CLAY. Gravel is fine to medium subangular chert and siltstone. - (OADBY MEMBER)		
3.00-3.45 3.00-3.50	SPT N=20 B			2,3/4,4,6,6	108.20	3.00	Medium dense reddish brown mottled grey clayey slightly sandy GRAVEL. Gravel is fine to medium subangular to angular gravel of siltstone and chert. - (WOLSTON SAND AND GRAVEL)		▼2
4.00-4.50 4.00-4.45	B SPT N=17			Water strike(2) at 4.00m, rose to 3.20m in 20 mins. 2,3/3,4,5,5		(2.10)			▼2 ▼3
5.00-5.45	SPT N=13			3,3/4,4,3,2					

Remarks Groundwater encountered at 2.0m, 4.0m and 7.0m bgl during drilling. Backfilled with a combination of arisings and bentonite.	Scale (approx)	Logged By
	1:25	DP
	Figure No. 23046.CP03	



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Borehole Number
CP03

Boring Method Cable Percussion	Casing Diameter		Ground Level (mOD) 111.20	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location (Handheld GPS) 444427 E 291710 N		Dates 08/06/2023- 09/06/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 2/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
5.50-6.00	B				106.10	5.10	Firm grey slightly sandy slightly gravelly CLAY. Gravel is fine subangular to subrounded limestone, mudstone and chert. - (BOSWORTH CLAY MEMBER)		
6.00-6.45	U					(1.50)			
7.00-7.50	B			Water strike(3) at 7.00m, rose to 4.20m in 20 mins. 3,4/3,4,5,7	104.60	6.60			V3
7.00-7.45	SPT N=19								
8.00-8.45	SPT N=16			2,2/3,4,4,5			Firm locally stiff grey slightly sandy SILT with frequent bands of grey silty CLAY and occasional bands of silty fine SAND. - (BOSWORTH CLAY MEMBER)		
8.00-8.50	B								
9.00-9.45	SPT N=13			1,2/2,3,4,4					
9.00-9.50	B					(3.40)			
10.00-10.45	SPT N=23			4,4/5,5,6,7					

Remarks Groundwater encountered at 2.0m, 4.0m and 7.0m bgl during drilling. Backfilled with a combination of arisings and bentonite.	Scale (approx)	Logged By
	1:25	DP
	Figure No. 23046.CP03	



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Borehole Number
CP03

Boring Method Cable Percussion	Casing Diameter		Ground Level (mOD) 111.20	Client Redrow Homes Limited and Mr Farmer	Job Number 23046
	Location (Handheld GPS) 444427 E 291710 N		Dates 08/06/2023- 09/06/2023	Engineer Travis Baker Geo-Environmental Limited	Sheet 3/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.00-10.50	B				101.20	10.00	Very stiff grey silty slightly sandy CLAY. - (BOSWORTH CLAY MEMBER)		
11.00-11.45 11.00-11.50	SPT N=28 B			4,4/6,7,7,8		(2.00)			
12.00-12.45 12.00-12.50	SPT 50/295 B			7,8/10,11,14,15	99.20	12.00	Very stiff red brown slightly gravelly CLAY. Gravel is fine subrounded to subangular gravel of mudstone and siltstone (MERCIA MUDSTONE)		
						(1.30)			
13.00-13.25	SPT 25*/100 50/145			25/21,29	97.90	13.30	Complete at 13.30m		

Remarks Groundwater encountered at 2.0m, 4.0m and 7.0m bgl during drilling. Backfilled with a combination of arisings and bentonite.	Scale (approx) 1:25	Logged By DP
	Figure No. 23046.CP03	

travis baker Travis Baker Geo-Environmental Ltd							Site Bullfurlong Lane, Burbage			Borehole Number CP04	
Boring Method Cable Percussion		Casing Diameter			Ground Level (mOD) 119.90		Client Redrow Homes Limited and Mr Farmer		Job Number 23046		
		Location 443860 E 291882 N			Dates 27/07/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 1/3		
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water		
0.30	B			2,3/3,4,4,5	119.60	(0.30) 0.30	Turf Topsoil. (Drillers description)				
						(0.70)	Firm orangish brown and brown slightly sandy slightly gravelly CLAY with occasional rootlets and a cobble of quartzite. Gravel is sub-angular mudstone, chert and rounded quartzite. - (OADBY MEMBER)				
1.00-1.45 1.00 1.00 1.00	SPT(C) N=16 B D J			2,3/3,4,4,5	118.90	1.00 (1.00)	Medium dense orangish brown clayey slightly gravelly SAND. Gravel is subangular mudstone, chert and rounded quartzite. - (WOLSTON SAND AND GRAVEL)				
2.00-2.45 2.00 2.00	SPT(C) N=18 B D			2,2/3,4,5,6	117.90	2.00	Medium dense orangish brown silty slightly gravelly SAND. Gravel is subangular mudstone, chert and rounded quartzite. - (WOLSTON SAND AND GRAVEL)				
3.00-3.45 3.00 3.00 3.00	SPT(C) N=19 B D J			3,3/4,5,5,5							
4.00-4.45 4.00 4.00	SPT(C) N=19 B D			2,3/4,4,5,6		(4.00)					
5.00-5.45 5.00 5.00 5.00	SPT(C) N=21 B D J			3,4/5,5,6,5							
6.00 6.00	B D			Water strike(1) at 6.00m, rose to 5.80m in 20 mins, sealed at 9.00m. 1,2/2,2,2,3	113.90	6.00	Firm becoming soft at 7.0m yellowish brown slightly clayey sandy slightly gravelly SILT. Gravel is subangular mudstone, chert and rounded quartzite. - (BOSWORTH CLAY MEMBER)				
6.00-6.45	SPT(C) N=9										
7.00-7.45 7.00 7.00 7.00	SPT(C) N=6 B D J			1,1/2,1,1,2		(2.00)					
7.80	D										
8.00-8.45 8.00 8.00 8.00	SPT(C) N=15 B D J	2,3/3,4,4,4	111.90	8.00	Firm dark brown and orangish brown mottled silty CLAY. - (BOSWORTH CLAY MEMBER)						
9.00	U1	15 blows		(2.00)							
9.45	D										
10.00-10.45	SPT(C) N=19	3,3/4,4,5,6									
Remarks Groundwater encountered at 6.0m rising to 5.8m after 20 minutes and 10.0m rising to 7.5m after 20 minutes during drilling. Backfilled with a combination of arisings and bentonite.								Scale (approx) 1:50	Logged By GR		
								Figure No. 23046.CP04			



Travis Baker Geo-Environmental Ltd

Site
Bullfurlong Lane, Burbage

Borehole Number
CP04

Boring Method Cable Percussion		Casing Diameter		Ground Level (mOD) 119.90		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location 443860 E 291882 N		Dates 27/07/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 2/3	

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.00 10.00	B D			Water strike(2) at 10.00m, rose to 7.50m in 20 mins, sealed at 12.00m.	109.90	10.00 (1.00)	Stiff yellowish brown slightly sandy silty CLAY. - (BOSWORTH CLAY MEMBER)		V2
11.00-11.45 11.00 11.00	SPT(C) N=17 B D			2,3/3,4,5,5	108.90	11.00	Stiff becoming very stiff at 12.0m dark brown slightly gravelly locally gravelly CLAY. Gravel is subangular mudstone, chert and rounded quartzite. - (BOSWORTH CLAY MEMBER)		
12.00-12.45 12.00 12.00	SPT(C) 50/295 B D			5,7/9,10,14,17					
13.00	U1			45 blows		(4.00)			
13.45	D								
14.00-14.45 14.00 14.00	SPT(C) 50/295 B D			5,7/8,11,14,17					
15.00-15.44 15.00 15.00 15.00	SPT(C) 50/285 B D J			7,8/10,11,14,15	104.90	15.00 (1.00)	Very stiff dark brown slightly gravelly silty CLAY with occasional cobble of chalk. Gravel is sub-angular chert and rounded quartzite. - (BOSWORTH CLAY MEMBER)		
16.00-16.43 16.00 16.00	SPT(C) 50/275 B D			5,7/9,12,15,14	103.90	16.00	Very stiff reddish dark brown silty CLAY. - (Possible weathered MERCIA MUDSTONE)		
17.00-17.42 17.00 17.00 17.00	SPT(C) 50/265 B D J			6,8/10,13,15,12					
18.00-18.45 18.00 18.00	SPT(C) 50/295 B D			7,8/10,12,13,15		(4.50)			
19.00-19.45 19.00 19.00 19.00	SPT(C) N=48 B D J			5,7/9,11,13,15					
20.00-20.45	SPT(C) N=50			6,8/10,12,14,14					

Remarks Groundwater encountered at 6.0m rising to 5.8m after 20 minutes and 10.0m rising to 7.5m after 20 minutes during drilling. Backfilled with a combination of arisings and bentonite.	Scale (approx)	Logged By
	1:50	GR
	Figure No. 23046.CP04	



Travis Baker Geo-Environmental Ltd

Site Bullfurlong Lane, Burbage		Borehole Number CP04							
Boring Method Cable Percussion		Casing Diameter		Ground Level (mOD) 119.90		Client Redrow Homes Limited and Mr Farmer		Job Number 23046	
		Location 443860 E 291882 N		Dates 27/07/2023		Engineer Travis Baker Geo-Environmental Limited		Sheet 3/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
20.00	D				99.40	20.50	Complete at 20.50m	x — x x — x x — x	
Remarks Groundwater encountered at 6.0m rising to 5.8m after 20 minutes and 10.0m rising to 7.5m after 20 minutes during drilling. Backfilled with a combination of arisings and bentonite.							Scale (approx) 1:50	Logged By GR	Figure No. 23046.CP04

APPENDIX 8

Gas and Groundwater Monitoring Results

RECORD OF MEASUREMENTS FOR GAS MONITORING BOREHOLES

Client Name: Redrow Homes Ltd and Mr Farmer

Date of Sampling: 06/06/2023

Site Name: Bullfurlong Lane, Burbage

Job Number: 23046

Borehole Reference	Borehole Flow (l/hr)	Methane	Carbon Dioxide	Oxygen	Balance	Sample Type	Borehole Pressure (mb)	Depth (m bgl)	
		(% by volume)	(% by volume)	(% by volume)	(% by volume)			Borehole	Water
BH01	-0.1	0.1	0.8	20.6	78.5	Accumulated	0.22	4.00	0.98
BH04	0.0	0.1	1.7	20.1	78.7	Accumulated	-0.02	2.00	0.72
BH05	0.0	0.1	3.0	17.9	79.0	Accumulated	0.05	4.80	3.26
BH06	0.0	0.1	1.8	20.2	78.0	Accumulated	0.09	2.25	1.03
BH07	0.0	0.1	1.7	19.1	79.1	Accumulated	0.05	5.05	3.40
BH08	0.0	0.1	1.5	17.9	78.5	Accumulated	0.02	4.90	1.13
BH09	0.0	3.4	9.8	2.9	83.7	Accumulated	0.00	4.90	4.16
BH11	0.0	0.1	2.5	19.9	77.9	Accumulated	0.03	2.90	1.17
Atmospheric Pressure: 1012 to 1013mb Pressure Trend: Rising Weather: Overcast / cool				Instrument Type: GA5000 Sample Type: As indicated above Operator: DP			Notes: 30 second purge completed between each borehole GW is silty in BH04, BH06 and BH11		

RECORD OF MEASUREMENTS FOR GAS MONITORING BOREHOLES

Client Name: Redrow Homes Ltd and Mr Farmer

Date of Sampling: 12/06/2023

Site Name: Bullfurlong Lane, Burbage

Job Number: 23046

Borehole Reference	Borehole Flow (l/hr)	Methane	Carbon Dioxide	Oxygen	Balance	Sample Type	Borehole Pressure (mb)	Depth (m bgl)	
		(% by volume)	(% by volume)	(% by volume)	(% by volume)			Borehole	Water
BH01	0.0	0.0	0.6	20.02	79.2	Accumulated	0.10	3.95	1.10
BH04	0.1	0.0	0.2	20.4	79.4	Accumulated	0.03	1.90	0.75
BH05	0.0	0.0	2.4	18.5	79.1	Accumulated	0.03	4.80	2.70
BH06	0.0	0.0	1.4	20.0	78.5	Accumulated	0.07	2.20	1.05
BH07	0.0	0.0	1.5	19.1	79.4	Accumulated	0.20	5.00	2.70
BH08	0.1	0.0	1.2	19.4	97.3	Accumulated	0.00	4.85	1.20
BH09	0.0	4.1	10.5	0.7	84.7	Accumulated	0.07	4.90	4.73
BH11	0.0	0.0	1.8	19.3	78.9	Accumulated	0.07	2.80	1.20
Atmospheric Pressure: 1003mb Pressure Trend: Steady Weather: sunny / dry				Instrument Type: GA5000 Sample Type: As indicated above Operator: G Rowles			Notes: During hot weather		

RECORD OF MEASUREMENTS FOR GAS MONITORING BOREHOLES

Client Name: Redrow Homes Ltd and Mr Farmer

Date of Sampling: 19/06/2023

Site Name: Bullfurlong Lane, Burbage

Job Number: 23046

Borehole Reference	Borehole Flow (l/hr)	Methane	Carbon Dioxide	Oxygen	Balance	Sample Type	Borehole Pressure (mb)	Depth (m bgl)	
		(% by volume)	(% by volume)	(% by volume)	(% by volume)			Borehole	Water
BH01	0.1	0.0	1.4	19.8	78.9	Accumulated	0.02	3.85	1.10
BH04	0.1	0.0	0.3	20.6	79.2	Accumulated	0.03	1.85	0.62
BH05	0.2	0.0	2.1	19.0	78.9	Accumulated	0.03	4.75	2.18
BH06	0.1	0.0	1.4	19.3	79.3	Accumulated	0.02	2.20	0.95
BH07	0.1	0.0	1.5	19.5	78.90	Accumulated	0.02	4.95	2.16
BH08	0.2	0.0	0.7	20.9	79.4	Accumulated	0.02	4.80	0.98
BH09	0.1	2.9	1.4	5.0	90.80	Accumulated	0.06	4.80	2.30
BH11	0.1	0.0	1.6	19.2	79.2	Accumulated	0.02	2.75	1.11
Atmospheric Pressure: 1010mb Pressure Trend: Steady Weather: sunny / dry				Instrument Type: GA5000 Sample Type: As indicated above Operator: G Rowles			Notes: During warm / dry weather		

RECORD OF MEASUREMENTS FOR GAS MONITORING BOREHOLES

Client Name: Redrow Homes Ltd and Mr Farmer

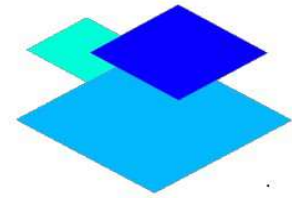
Date of Sampling: 30/06/2023

Site Name: Bullfurlong Lane, Burbage

Job Number: 23046

Borehole Reference	Borehole Flow (l/hr)	Methane	Carbon Dioxide	Oxygen	Balance	Sample Type	Borehole Pressure (mb)	Depth (m bgl)	
		(% by volume)	(% by volume)	(% by volume)	(% by volume)			Borehole	Water
BH01	0.1	0.0	3.8	17.2	79.0	Accumulated	0.00	3.80	1.30
BH04	0.1	0.0	0.1	20.4	79.4	Accumulated	0.07	1.80	0.74
BH05	0.0	0.1	1.8	19.4	78.8	Accumulated	0.00	4.75	1.70
BH06	0.2	0.0	2.7	18.4	78.8	Accumulated	0.02	*	*
BH07	0.0	0.1	2.1	18.8	79.0	Accumulated	-0.02	4.90	1.67
BH08	0.1	0.1	2.3	19.0	78.8	Accumulated	0.03	4.80	1.17
BH09	0.0	0.1	9.2	1.2	89.4	Accumulated	-0.10	4.80	4.00
BH11	0.1	0.1	0.9	20.1	79.9	Accumulated	0.05	2.75	1.20
Atmospheric Pressure: 999mb Pressure Trend: Steady Weather: Overcast / few drops				Instrument Type: GA5000 Sample Type: As indicated above Operator: G Rowles			Notes: Rubber bung pushed down into standpipe and unable to access for water levels		

APPENDIX 9
CBR Test Results



Determination of Nominal CBR Value derived from Plate Loading

Client: Travis Baker
Client Address: Trinity Point
New Road
Halesowen
Postcode: B63 3HY
Contact: Lindsey Geddes
Site: Land off Bullfurlong Lane, Burbage LE10 2HQ

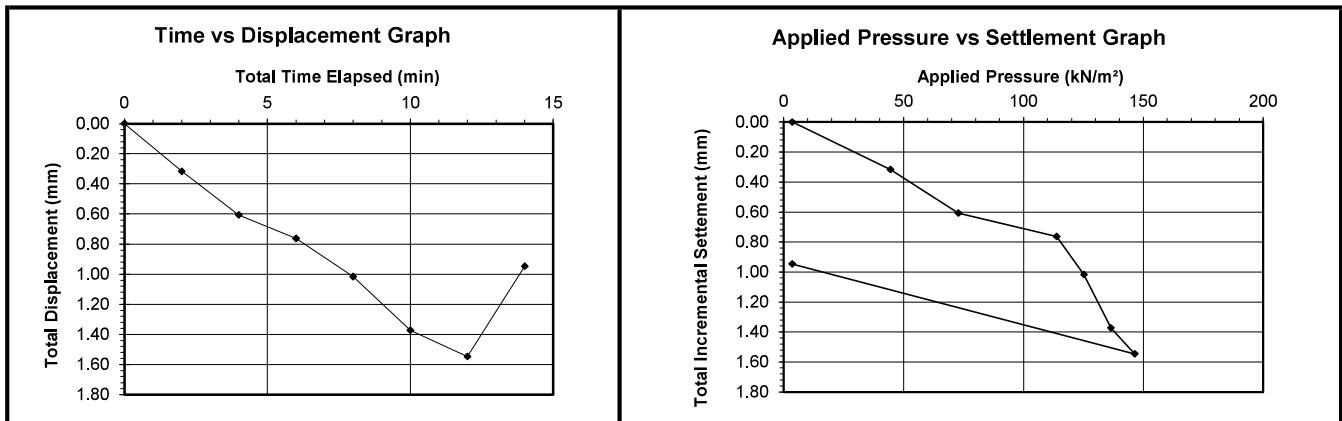
Report No: CS/230143/250523/001

Testing Information

Date Tested: 25.05.2023
Weather: Clear
Material Type: Brown, soily clay
Test Location: See Map - CBR 1
Depth: Formation
Layer Thickness (mm): N/A

Test Number: 1
Supplier/Source: Site won
Kentledge Type: 9T Excavator
Plate Diameter [m]: 0.30
Tested By: CS

Applied Load [kN]	Applied Pressure [kN/m ²]	Average Plate Settlement [mm]
0.25	4	0.00
3.15	45	0.32
5.15	73	0.61
8.05	114	0.76
8.85	125	1.02
9.65	137	1.37
10.35	146	1.55
0.25	4	0.95
End of Test		



Pressure at 1.25mm Settlement*: 126 kN/m²
Modulus of Subgrade Reaction (K762): 45 MN/m²/m
Distance from edge of plate to wall: N/A
Nominal CBR By Plate Loading: 6.9 %
Moisture Content: N/A

Maximum Applied Pressure: 146 kN/m²
Maximum Deformation: 1.55mm
Temperature: 20 °C
Plate Recovery: 39%

Deviations to standard test method: N/A

Comments:

*Certified that the testing was carried out in accordance with the DMH Testing In House Procedure based upon SHW Design manual IAN73/06. Moisture Contents, if required, will be carried out to BS 1377-2:1990 method 3.2. Results relate only to the location tested. Where external contractors have been used, this will be noted in comments. *The 'pressure @ 1.25mm reading' is derived from a best fit regression line drawn between all the pressure points of this test.*

Page: 1 of 1
Date: 25/05/2023

Signed: _____

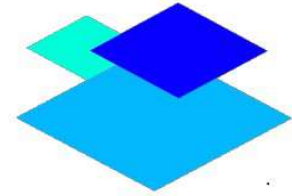
P Jelfs

For and on behalf of DMH Testing Ltd

[] L McLundie - Director
[X] P Jelfs - Director



23594



Determination of Nominal CBR Value derived from Plate Loading

Client: Travis Baker
Client Address: Trinity Point
New Road
Halesowen
Postcode: B63 3HY
Contact: Lindsey Geddes
Site: Land off Bullfurlong Lane, Burbage LE10 2HQ

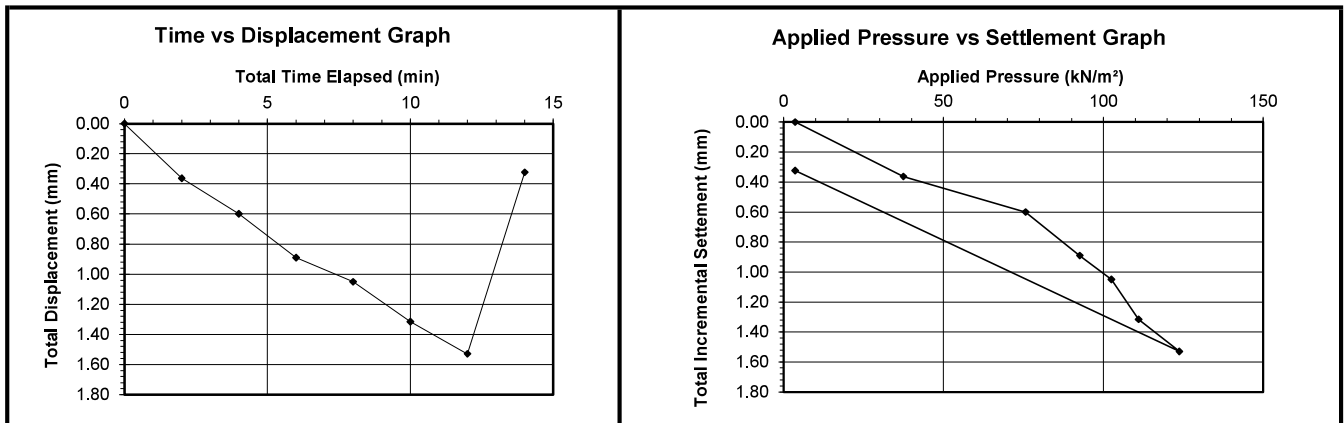
Report No: CS/230143/250523/003

Testing Information

Date Tested: 25.05.2023
Weather: Clear
Material Type: Brown, soily clay
Test Location: See Map - CBR 2
Depth: Formation
Layer Thickness (mm): N/A

Test Number: 3
Supplier/Source: Site won
Kentledge Type: 9T Excavator
Plate Diameter [m]: 0.30
Tested By: CS

Applied Load [kN]	Applied Pressure [kN/m ²]	Average Plate Settlement [mm]
0.25	4	0.00
2.65	37	0.36
5.35	76	0.60
6.55	93	0.89
7.25	103	1.05
7.85	111	1.32
8.75	124	1.53
0.25	4	0.32
End of Test		



Pressure at 1.25mm Settlement*: 107 kN/m²
Modulus of Subgrade Reaction (K762): 38 MN/m²/m
Distance from edge of plate to wall: N/A
Nominal CBR By Plate Loading: 5.2 %
Moisture Content: N/A

Maximum Applied Pressure: 124 kN/m²
Maximum Deformation: 1.53mm
Temperature: 20 °C
Plate Recovery: 79%

Deviations to standard test method: N/A

Comments:

*Certified that the testing was carried out in accordance with the DMH Testing In House Procedure based upon SHW Design manual IAN73/06. Moisture Contents, if required, will be carried out to BS 1377-2:1990 method 3.2. Results relate only to the location tested. Where external contractors have been used, this will be noted in comments. *The 'pressure @ 1.25mm reading' is derived from a best fit regression line drawn between all the pressure points of this test.*

Page: 1 of 1
Date: 25/05/2023

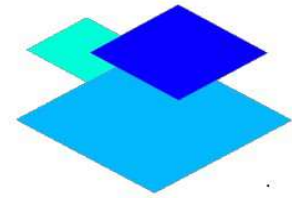
Signed:

P Jelfs

For and on behalf of DMH Testing Ltd

[] L McLundie - Director
[X] P Jelfs - Director





Determination of Nominal CBR Value derived from Plate Loading

Client: Travis Baker
Client Address: Trinity Point
New Road
Halesowen
Postcode: B63 3HY
Contact: Lindsey Geddes
Site: Land off Bullfurlong Lane, Burbage LE10 2HQ

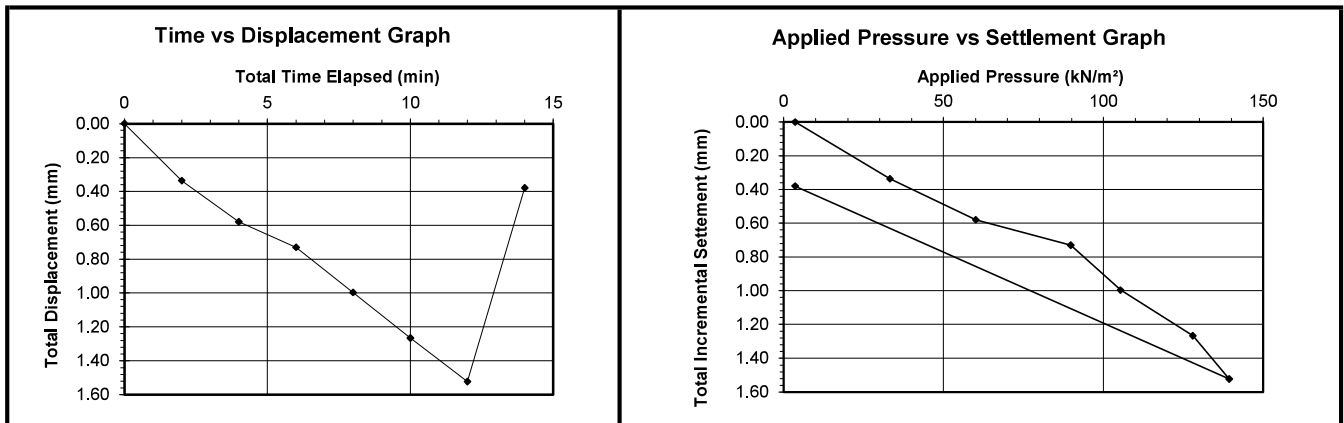
Report No: CS/230143/250523/002

Testing Information

Date Tested: 25.05.2023
Weather: Clear
Material Type: Brown, soily clay
Test Location: See Map - CBR 3
Depth: Formation
Layer Thickness (mm): N/A

Test Number: 2
Supplier/Source: Site won
Kentledge Type: 9T Excavator
Plate Diameter [m]: 0.30
Tested By: CS

Applied Load [kN]	Applied Pressure [kN/m ²]	Average Plate Settlement [mm]
0.25	4	0.00
2.35	33	0.34
4.25	60	0.58
6.35	90	0.73
7.45	105	1.00
9.05	128	1.27
9.85	139	1.52
0.25	4	0.38
End of Test		



Pressure at 1.25mm Settlement*: 119 kN/m²
Modulus of Subgrade Reaction (K762): 42 MN/m²/m
Distance from edge of plate to wall: N/A
Nominal CBR By Plate Loading: 6.3 %
Moisture Content: N/A

Maximum Applied Pressure: 139 kN/m²
Maximum Deformation: 1.52mm
Temperature: 20 °C
Plate Recovery: 75%

Deviations to standard test method: N/A

Comments:

*Certified that the testing was carried out in accordance with the DMH Testing In House Procedure based upon SHW Design manual IAN73/06. Moisture Contents, if required, will be carried out to BS 1377-2:1990 method 3.2. Results relate only to the location tested. Where external contractors have been used, this will be noted in comments. *The 'pressure @ 1.25mm reading' is derived from a best fit regression line drawn between all the pressure points of this test.*

Page: 1 of 1
Date: 25/05/2023

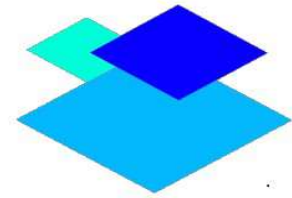
Signed:

P Jelfs

For and on behalf of DMH Testing Ltd

[] L McLundie - Director
[X] P Jelfs - Director





Determination of Nominal CBR Value derived from Plate Loading

Client: Travis Baker
Client Address: Trinity Point
New Road
Halesowen
Postcode: B63 3HY
Contact: Lindsey Geddes
Site: Land off Bullfurlong Lane, Burbage LE10 2HQ

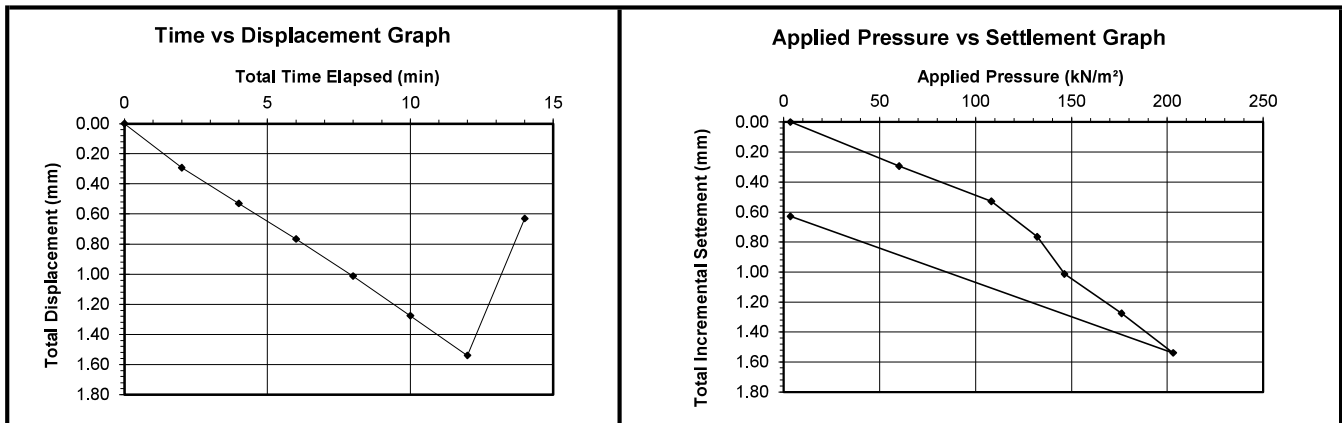
Report No: CS/230143/250523/008

Testing Information

Date Tested: 25.05.2023
Weather: Clear
Material Type: Brown, soily clay
Test Location: See Map - CBR 4
Depth: Formation
Layer Thickness (mm): N/A

Test Number: 8
Supplier/Source: Site won
Kentledge Type: 9T Excavator
Plate Diameter [m]: 0.30
Tested By: CS

Applied Load [kN]	Applied Pressure [kN/m ²]	Average Plate Settlement [mm]
0.25	4	0.00
4.25	60	0.29
7.65	108	0.53
9.35	132	0.77
10.35	146	1.01
12.45	176	1.28
14.35	203	1.54
0.25	4	0.63
End of Test		



Pressure at 1.25mm Settlement*: 172 kN/m²
Modulus of Subgrade Reaction (K762): 61 MN/m²/m
Distance from edge of plate to wall: N/A
Nominal CBR By Plate Loading: 12 %
Moisture Content: N/A

Maximum Applied Pressure: 203 kN/m²
Maximum Deformation: 1.54mm
Temperature: 20 °C
Plate Recovery: 59%

Deviations to standard test method: N/A

Comments:

*Certified that the testing was carried out in accordance with the DMH Testing In House Procedure based upon SHW Design manual IAN73/06. Moisture Contents, if required, will be carried out to BS 1377-2:1990 method 3.2. Results relate only to the location tested. Where external contractors have been used, this will be noted in comments. *The 'pressure @ 1.25mm reading' is derived from a best fit regression line drawn between all the pressure points of this test.*

Page: 1 of 1
Date: 25/05/2023

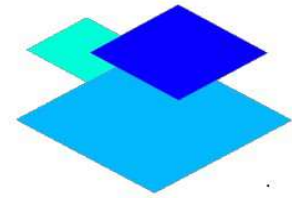
Signed:

P Jelfs

For and on behalf of DMH Testing Ltd

[] L McLundie - Director
[X] P Jelfs - Director





Determination of Nominal CBR Value derived from Plate Loading

Client: Travis Baker
Client Address: Trinity Point
New Road
Halesowen
Postcode: B63 3HY
Contact: Lindsey Geddes
Site: Land off Bullfurlong Lane, Burbage LE10 2HQ

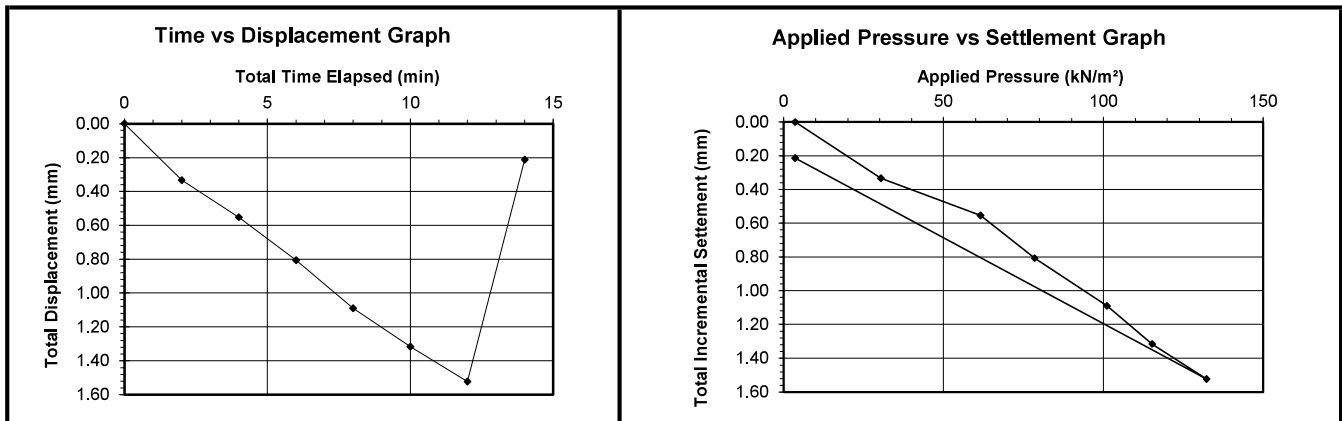
Report No: CS/230143/250523/004

Testing Information

Date Tested: 25.05.2023
Weather: Clear
Material Type: Brown, soily clay
Test Location: See Map - CBR 5
Depth: Formation
Layer Thickness (mm): N/A

Test Number: 4
Supplier/Source: Site won
Kentledge Type: 9T Excavator
Plate Diameter [m]: 0.30
Tested By: CS

Applied Load [kN]	Applied Pressure [kN/m ²]	Average Plate Settlement [mm]
0.25	4	0.00
2.15	30	0.33
4.35	62	0.55
5.55	79	0.81
7.15	101	1.09
8.15	115	1.32
9.35	132	1.52
0.25	4	0.21
End of Test		



Pressure at 1.25mm Settlement*: 111 kN/m²
Modulus of Subgrade Reaction (K762): 39 MN/m²/m
Distance from edge of plate to wall: N/A
Nominal CBR By Plate Loading: 5.5 %
Moisture Content: N/A

Maximum Applied Pressure: 132 kN/m²
Maximum Deformation: 1.52mm
Temperature: 20 °C
Plate Recovery: 86%

Deviations to standard test method: N/A

Comments:

*Certified that the testing was carried out in accordance with the DMH Testing In House Procedure based upon SHW Design manual IAN73/06. Moisture Contents, if required, will be carried out to BS 1377-2:1990 method 3.2. Results relate only to the location tested. Where external contractors have been used, this will be noted in comments. *The 'pressure @ 1.25mm reading' is derived from a best fit regression line drawn between all the pressure points of this test.*

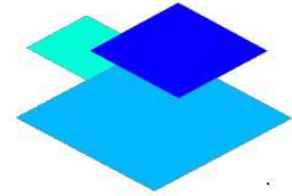
Page: 1 of 1
Date: 25/05/2023

Signed: _____

For and on behalf of DMH Testing Ltd

[] L McLundie - Director
[X] P Jelfs - Director





Determination of Nominal CBR Value derived from Plate Loading

Client: Travis Baker
Client Address: Trinity Point
New Road
Halesowen
Postcode: B63 3HY
Contact: Lindsey Geddes
Site: Land off Bullfurlong Lane, Burbage LE10 2HQ

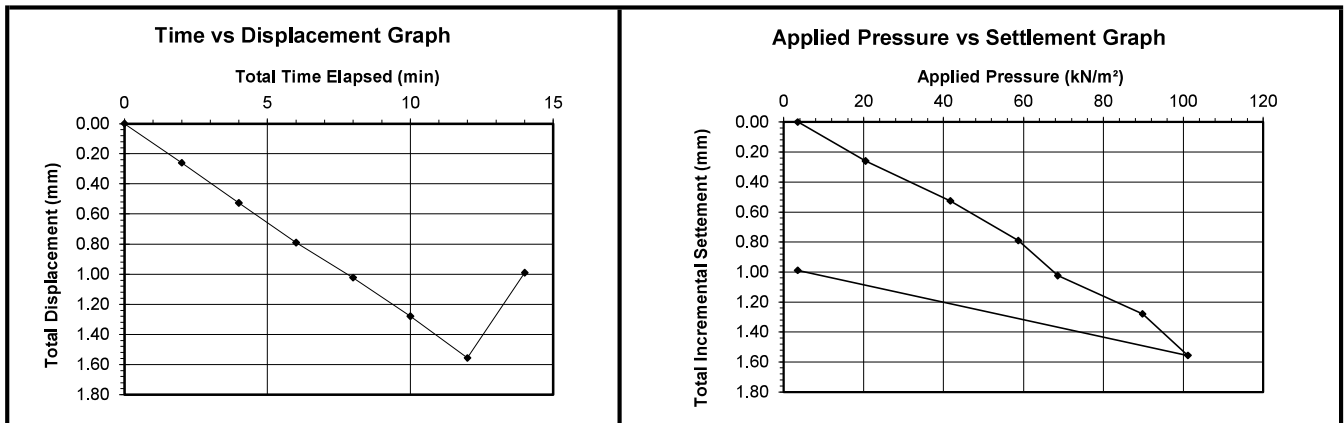
Report No: CS/230143/250523/006

Testing Information

Date Tested: 25.05.2023
Weather: Clear
Material Type: Brown, soily clay
Test Location: See Map - CBR 6
Depth: Formation
Layer Thickness (mm): N/A

Test Number: 6
Supplier/Source: Site won
Kentledge Type: 9T Excavator
Plate Diameter [m]: 0.30
Tested By: CS

Applied Load [kN]	Applied Pressure [kN/m ²]	Average Plate Settlement [mm]
0.25	4	0.00
1.45	21	0.26
2.95	42	0.53
4.15	59	0.79
4.85	69	1.02
6.35	90	1.28
7.15	101	1.56
0.25	4	0.99
End of Test		



Pressure at 1.25mm Settlement*: 83 kN/m²
Modulus of Subgrade Reaction (K762): 29 MN/m²/m
Distance from edge of plate to wall: N/A
Nominal CBR By Plate Loading: 3.4 %
Moisture Content: N/A

Maximum Applied Pressure: 101 kN/m²
Maximum Deformation: 1.56mm
Temperature: 20 °C
Plate Recovery: 36%

Deviations to standard test method: N/A

Comments:

*Certified that the testing was carried out in accordance with the DMH Testing In House Procedure based upon SHW Design manual IAN73/06. Moisture Contents, if required, will be carried out to BS 1377-2:1990 method 3.2. Results relate only to the location tested. Where external contractors have been used, this will be noted in comments. *The 'pressure @ 1.25mm reading' is derived from a best fit regression line drawn between all the pressure points of this test.*

Page: 1 of 1
Date: 25/05/2023

Signed:

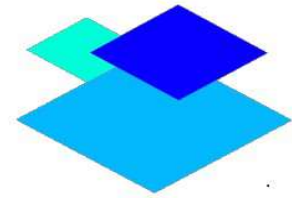
P Jelfs

For and on behalf of DMH Testing Ltd

[] L McLundie - Director
[X] P Jelfs - Director



23594



Determination of Nominal CBR Value derived from Plate Loading

Client: Travis Baker
Client Address: Trinity Point
New Road
Halesowen
Postcode: B63 3HY
Contact: Lindsey Geddes
Site: Land off Bullfurlong Lane, Burbage LE10 2HQ

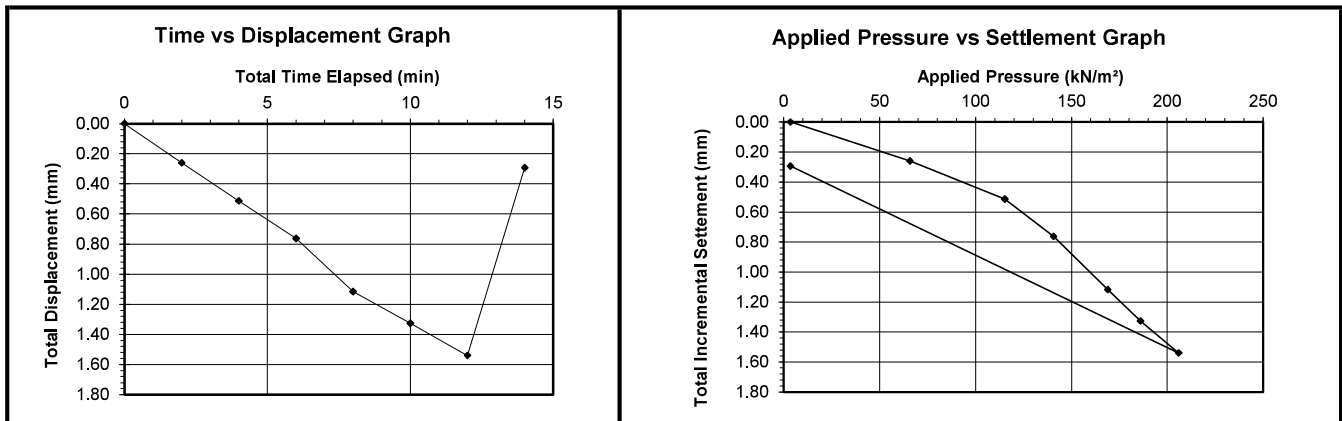
Report No: CS/230143/250523/007

Testing Information

Date Tested: 25.05.2023
Weather: Clear
Material Type: Brown, soily clay
Test Location: See Map - CBR 7
Depth: Formation
Layer Thickness (mm): N/A

Test Number: 7
Supplier/Source: Site won
Kentledge Type: 9T Excavator
Plate Diameter [m]: 0.30
Tested By: CS

Applied Load [kN]	Applied Pressure [kN/m ²]	Average Plate Settlement [mm]
0.25	4	0.00
4.65	66	0.26
8.15	115	0.51
9.95	141	0.76
11.95	169	1.12
13.15	186	1.33
14.55	206	1.54
0.25	4	0.29
End of Test		



Pressure at 1.25mm Settlement*: 177 kN/m²
Modulus of Subgrade Reaction (K762): 62 MN/m²/m
Distance from edge of plate to wall: N/A
Nominal CBR By Plate Loading: 12 %
Moisture Content: N/A

Maximum Applied Pressure: 206 kN/m²
Maximum Deformation: 1.54mm
Temperature: 20 °C
Plate Recovery: 81%

Deviations to standard test method: N/A

Comments:

*Certified that the testing was carried out in accordance with the DMH Testing In House Procedure based upon SHW Design manual IAN73/06. Moisture Contents, if required, will be carried out to BS 1377-2:1990 method 3.2. Results relate only to the location tested. Where external contractors have been used, this will be noted in comments. *The 'pressure @ 1.25mm reading' is derived from a best fit regression line drawn between all the pressure points of this test.*

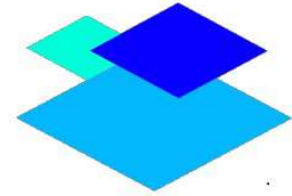
Page: 1 of 1
Date: 25/05/2023

Signed: _____

For and on behalf of DMH Testing Ltd

[] L McLundie - Director
[X] P Jelfs - Director





Determination of Nominal CBR Value derived from Plate Loading

Client: Travis Baker
Client Address: Trinity Point
New Road
Halesowen
Postcode: B63 3HY
Contact: Lindsey Geddes
Site: Land off Bullfurlong Lane, Burbage LE10 2HQ

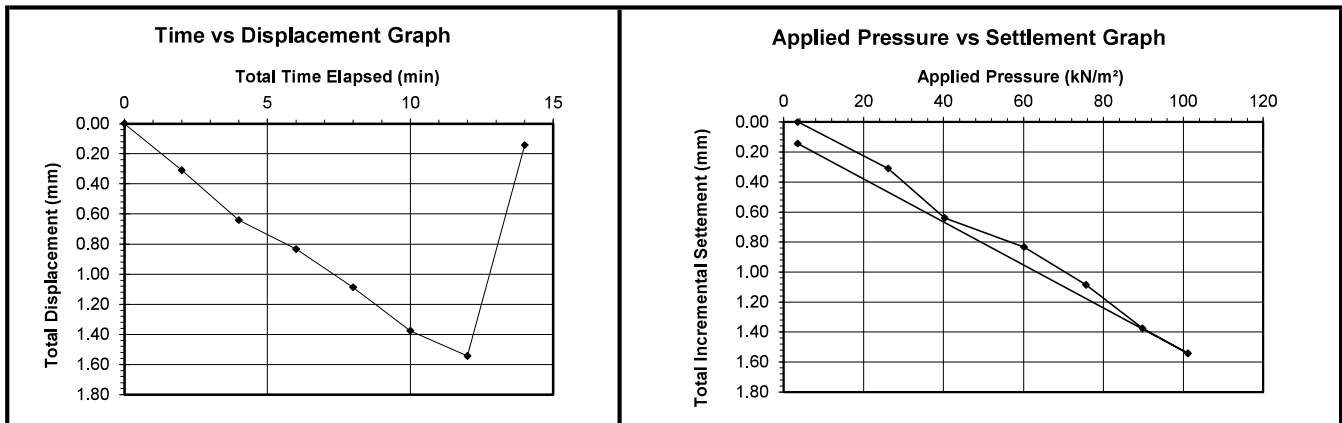
Report No: CS/230143/250523/005

Testing Information

Date Tested: 25.05.2023
Weather: Clear
Material Type: Brown, soily clay
Test Location: See Map - CBR 8
Depth: Formation
Layer Thickness (mm): N/A

Test Number: 5
Supplier/Source: Site won
Kentledge Type: 9T Excavator
Plate Diameter [m]: 0.30
Tested By: CS

Applied Load [kN]	Applied Pressure [kN/m ²]	Average Plate Settlement [mm]
0.25	4	0.00
1.85	26	0.31
2.85	40	0.64
4.25	60	0.83
5.35	76	1.09
6.35	90	1.38
7.15	101	1.54
0.25	4	0.14
End of Test		



Pressure at 1.25mm Settlement*: 83 kN/m²
Modulus of Subgrade Reaction (K762): 29 MN/m²/m
Distance from edge of plate to wall: N/A
Nominal CBR By Plate Loading: 3.4 %
Moisture Content: N/A

Maximum Applied Pressure: 101 kN/m²
Maximum Deformation: 1.54mm
Temperature: 20 °C
Plate Recovery: 91%

Deviations to standard test method: N/A

Comments:

*Certified that the testing was carried out in accordance with the DMH Testing In House Procedure based upon SHW Design manual IAN73/06. Moisture Contents, if required, will be carried out to BS 1377-2:1990 method 3.2. Results relate only to the location tested. Where external contractors have been used, this will be noted in comments. *The 'pressure @ 1.25mm reading' is derived from a best fit regression line drawn between all the pressure points of this test.*

Page: 1 of 1
Date: 25/05/2023

Signed: _____

For and on behalf of DMH Testing Ltd

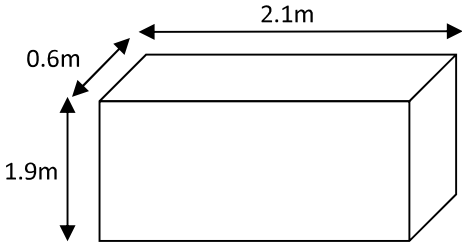
[] L McLundie - Director
[X] P Jelfs - Director



APPENDIX 10
Soakaway Test Results

Soakaway Field Record – SA01

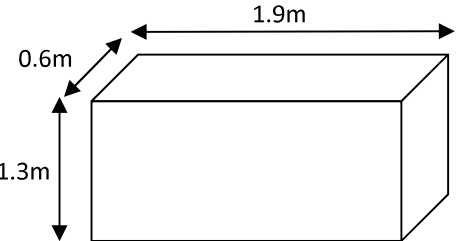
Site Name:	Bullfurlong Lane, Burbage
Job Number:	23046
Date:	31/06/2023
Weather:	Dry
Soakaway Reference:	SA01
Test Number at Location:	Test 1 (of 1)
Filled with stone?	No

Trial Pit Dimensions: 	Trial Pit Log: 0 – 0.4m Topsoil 0.4m – 1.4m Orangish brown slightly gravelly sand CLAY. Gravel is fine to medium chert. 1.4m – 1.9m Brown mottled greyish brown slightly sandy gravelly CLAY. Gravel is fine to medium subangular chert. Effective depth = 0.99m
---	--

Time in mins	Water Level (m bgl)
0	0.91
2	0.92
4	0.925
6	0.93
9	0.935
12	0.935
15	0.935
30	0.94
45	0.94
60	0.965
151	1.00
206	1.01
230	1.02
290	1.02
310	1.02
364	1.02
1430	1.02
1700	1.02

Soakaway Field Record – SA02

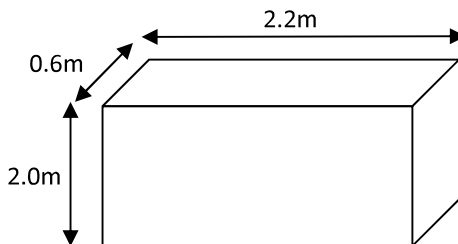
Site Name:	Bullfurlong Lane, Burbage
Job Number:	23046
Date:	31/06/2023
Weather:	Dry
Soakaway Reference:	SA02
Test Number at Location:	Test 1 (of 1)
Filled with stone?	No

Trial Pit Dimensions: 	Trial Pit Log: 0 – 0.4m Topsoil 0.4m – 1.2m Reddish brown clayey gravelly SAND. Gravel is fine to coarse subrounded to subangular chert. 1.2m – 1.3m Reddish brown SAND with bands of grey clay. Effective depth = 0.28m
---	--

[illegible]

Soakaway Field Record – SA03

Site Name:	Bullfurlong Lane, Burbage
Job Number:	23046
Date:	31/06/2023
Weather:	Dry
Soakaway Reference:	SA03
Test Number at Location:	Test 1 (of 1)
Filled with stone?	No

Trial Pit Dimensions: 	Trial Pit Log: 0 – 0.9m Topsoil 0.9m – 1.4m Orangish brown sandy CLAY 1.4m – 2.0m Dark reddish brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is medium subangular chert. Effective depth = 1.00m
---	---

[illegible]

APPENDIX 11
Contamination Summary Table

APPENDIX 11 – CHEMICAL SUMMARY TABLE
Bullfurlong Lane, Burbage

Determinant	Target Residential 1% SOM		All Materials - Travis Baker Investigations		
	GAC (mg/kg)	Source	No. of Samples	Range (mg/kg)	No. Samples Above GAC
Mercury	1.2	S4UL [◇]	44	<0.3 – 0.5	0
Beryllium	1.7	S4UL [◇]	44	0.37 – 1.1	0
Selenium	250	S4UL [◇]	44	<1	0
Arsenic	37	C4SL	44	7.7 – 27	0
Nickel	180	S4UL [◇]	44	9 – 61	0
Cadmium	26	C4SL	44	<0.2 – 0.6	0
Boron (water-soluble)	290	S4UL [◇]	44	<0.2 – 5	0
Chromium	910	S4UL [◇]	44	13 – 37	0
Copper	2,400	S4UL [◇]	44	10 – 71	0
Lead	200	C4SL	44	10 – 100	0
Zinc	3,700	S4UL [◇]	44	39 – 170	0
Asbestos Bulk ID	0.001 %	In House	18	N.D.	0
Naphthalene	2.3	S4UL [◇]	29	<0.05	0
Acenaphthylene	170	S4UL [◇]	29	<0.05	0
Acenaphthene	210	S4UL [◇]	29	<0.05 – 0.07	0
Fluorene	170	S4UL [◇]	29	<0.05 – 0.07	0
Phenanthrene	95	S4UL [◇]	29	<0.05 – 0.93	0
Anthracene	2,400	S4UL [◇]	29	<0.05 – 0.33	0
Fluoranthene	280	S4UL [◇]	29	<0.05 – 1.7	0
Pyrene	620	S4UL [◇]	29	<0.05 – 1.5	0
Benzo(a)anthracene	7.2	S4UL [◇]	29	<0.05 – 0.69	0
Chrysene	15	S4UL [◇]	29	<0.05 – 0.86	0
Benzo(b)fluoranthene	2.6	S4UL [◇]	29	<0.05 – 0.83	0
Benzo(k)fluoranthene	77	S4UL [◇]	29	<0.05 – 0.51	0
Benzo(a)pyrene	2.2	S4UL [◇]	29	<0.05 – 0.8	0
Indeno(1,2,3-cd)pyrene	27	S4UL [◇]	29	<0.05 – 0.51	0
Dibenz(a,h)anthracene	0.24	S4UL [◇]	29	<0.05	0
Benzo(ghi)perylene	320	S4UL [◇]	29	<0.05 – 0.65	0
TPH (aliphatic C ₅ -C ₆)	42	S4UL [◇]	3	<0.001	0
TPH (aliphatic C ₆ -C ₈)	100	S4UL [◇]	3	<0.001	0
TPH (aliphatic C ₈ -C ₁₀)	27	S4UL [◇]	3	<0.001	0
TPH (aliphatic C ₁₀ -C ₁₂)	48 #	S4UL [◇]	3	<1.0	0
TPH (aliphatic C ₁₂ -C ₁₆)	24 #	S4UL [◇]	3	<2.0	0
TPH (aliphatic C ₁₆ -C ₃₅)	65,000	S4UL [◇]	3	43	0
TPH (aromatic C ₅ -C ₇)	70	S4UL [◇]	3	<0.001	0
TPH (aromatic C ₇ -C ₈)	130	S4UL [◇]	3	<0.001	0
TPH (aromatic C ₈ -C ₁₀)	34	S4UL [◇]	3	<0.001	0
TPH (aromatic C ₁₀ -C ₁₂)	74	S4UL [◇]	3	<1.0	0

APPENDIX 11 – CHEMICAL SUMMARY TABLE
Bullfurlong Lane, Burbage

Determinant	Target Residential 1% SOM		All Materials - Travis Baker Investigations		
	GAC (mg/kg)	Source	No. of Samples	Range (mg/kg)	No. Samples Above GAC
TPH (aromatic C ₁₂ -C ₁₆)	140	S4UL [◇]	3	<2.0	0
TPH (aromatic C ₁₆ -C ₂₁)	260	S4UL [◇]	3	<10	0
TPH (aromatic C ₂₁ -C ₃₅)	1100	S4UL [◇]	3	34	0
Benzene	0.87	C4SL	3	<0.005	0
Toluene	130	S4UL [◇]	3	<0.005	0
Ethylbenzene	47	S4UL [◇]	3	<0.005	0
m- & p-xylene	56	S4UL [◇]	3	<0.005	0
o-xylene	60	S4UL [◇]	3	<0.005	0

Notes

- CIEH/LQM - Suitable for Use Level (S4UL) published by the Chartered Institute of Environmental Health (CIEH) and Land Quality Management (LQM) dated January 2015
- C4SL - Category 4 Screening Levels published by DEFRA in 2014
- ◇ - "Copyright Land Quality Management Ltd reproduced with permission; Publication number S4UL3689. All rights reserved"
- # - GAC capped at the lower of the vapour or aqueous saturation limits in soil
- * - All results below test detection limits.

All values based on a residential with homegrown produce end use

APPENDIX 12

Laboratory Geochemical Test Results

Daniel Potts

Travis Baker Geo-Environmental Limited
Trinity Point
New Road
Halesowen
West Midlands
B63 3HY

e: daniel.potts@travisbaker.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404

f: 01923 237404

e: reception@i2analytical.com

Analytical Report Number : 23-37833

Project / Site name: long Lane, BurbageBullfu

Samples received on: 02/06/2023

Your job number: 23046

**Samples instructed on/
Analysis started on:** 07/06/2023

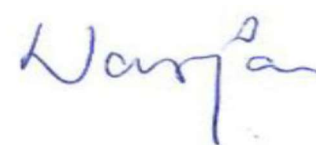
Your order number: 3491G

Analysis completed by: 14/06/2023

Report Issue Number: 1

Report issued on: 14/06/2023

Samples Analysed: 94 soil samples



Signed:

Dominika Warjan
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704398	2704399	2704400	2704401	2704402
Sample Reference				BH01	BH02	BH02	BH02	BH03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.40	0.20	0.90	4.00	0.30
Date Sampled				25/05/2023	25/05/2023	25/05/2023	25/05/2023	25/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	6.7	11	11	9
Total mass of sample received	kg	0.001	NONE	0.8	0.5	0.8	0.3	0.8

Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	N/A	MJN	N/A	N/A	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	7.3	7.4	-	-
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.061	0.034	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	0.6	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.19	-	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.11	-	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.09	0.64	-	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.08	0.69	-	-	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.33	-	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.46	-	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.76	-	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.32	-	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.63	-	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.43	-	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.65	-	-	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	5.21	-	-	< 0.80
-----------------------------	-------	-----	-----------	--------	------	---	---	--------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	21	19	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	1.6	1.1	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	25	34	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	71	26	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	66	25	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	59	31	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	170	120	-	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704398	2704399	2704400	2704401	2704402
Sample Reference				BH01	BH02	BH02	BH02	BH03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.40	0.20	0.90	4.00	0.30
Date Sampled				25/05/2023	25/05/2023	25/05/2023	25/05/2023	25/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					

Monoaromatics & Oxygenates

Benzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Toluene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
o-xylene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	< 5.0	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	< 1.0	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	< 2.0	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	< 8.0	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	43	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	43	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	< 1.0	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	< 2.0	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	< 10	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	34	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	35	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	-
BHC-beta	µg/kg	10	NONE	-	-	-	-	-
BHC-delta	µg/kg	10	NONE	-	-	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	-	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	20	NONE	-	-	-	-	-
Heptachlor	µg/kg	10	NONE	-	-	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704398	2704399	2704400	2704401	2704402
Sample Reference				BH01	BH02	BH02	BH02	BH03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.40	0.20	0.90	4.00	0.30
Date Sampled				25/05/2023	25/05/2023	25/05/2023	25/05/2023	25/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704403	2704404	2704405	2704406	2704407
Sample Reference				BH03	BH04	BH04	BH04	BH05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.10-3.30	0.10	0.40	1.90	0.50
Date Sampled				25/05/2023	24/05/2023	24/05/2023	24/05/2023	24/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	15	16	19	14	12
Total mass of sample received	kg	0.001	NONE	0.3	1	0.3	0.3	0.3

Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.1	-	7.3	-	7.3
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	10	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0052	-	0.0047	-	0.0071
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	5.2	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	< 0.1	-	1.8	< 0.1	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	-	-	-
-----------------------------	-------	-----	-----------	---	---	---	---	---

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	12	-	12
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	0.4	-	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	0.5	-	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	28	-	23
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	22	-	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	28	-	15
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	23	-	24
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	< 1.0	-	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	75	-	46

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704403	2704404	2704405	2704406	2704407
Sample Reference				BH03	BH04	BH04	BH04	BH05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.10-3.30	0.10	0.40	1.90	0.50
Date Sampled				25/05/2023	24/05/2023	24/05/2023	24/05/2023	24/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	< 10	-	-	-
Aldrin	µg/kg	10	NONE	-	< 10	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	< 10	-	-	-
BHC-beta	µg/kg	10	NONE	-	< 10	-	-	-
BHC-delta	µg/kg	10	NONE	-	< 10	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	< 10	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	< 10	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	< 10	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	< 20	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	< 10	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	< 10	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	< 10	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	< 10	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	< 10	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	< 10	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	< 10	-	-	-
Dieldrin	µg/kg	10	NONE	-	< 10	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	< 10	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	< 10	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	< 10	-	-	-
Endrin	µg/kg	20	NONE	-	< 20	-	-	-
Heptachlor	µg/kg	10	NONE	-	< 10	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	< 10	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	< 10	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	< 10	-	-	-

Analytical Report Number: 23-37833
 Project / Site name: long Lane, BurbageBullfu
 Your Order No: 3491G

Lab Sample Number				2704403	2704404	2704405	2704406	2704407
Sample Reference				BH03	BH04	BH04	BH04	BH05
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.10-3.30	0.10	0.40	1.90	0.50
Date Sampled				25/05/2023	24/05/2023	24/05/2023	24/05/2023	24/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	< 20	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	< 20	-	-	-
Pendimethalin	µg/kg	10	NONE	-	< 10	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	< 10	-	-	-
Propyzamide	µg/kg	10	NONE	-	< 10	-	-	-
Tecnazene	µg/kg	10	NONE	-	< 10	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	< 10	-	-	-
Triadimefon	µg/kg	10	NONE	-	< 10	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	< 10	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	< 10	-	-	-
Trifluralin	µg/kg	10	NONE	-	< 10	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704408	2704409	2704410	2704411	2704412
Sample Reference				BH06	BH06	BH07	BH07	BH08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.40	2.00-2.20	0.10	1.80	0.10
Date Sampled				25/05/2023	25/05/2023	24/05/2023	24/05/2023	24/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	-	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	-	14	13	11	12
Total mass of sample received	kg	0.001	NONE	-	0.3	0.9	0.5	0.9

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	MJN	N/A	N/A	N/A	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	8.2	-	8.5	-
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	34	-	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.017	-	0.015	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	16.8	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	0.3	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	-	-	-
-----------------------------	-------	-----	-----------	---	---	---	---	---

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	8.6	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	0.4	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	< 0.2	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	21	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	20	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	12	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	22	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	< 1.0	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	50	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704408	2704409	2704410	2704411	2704412
Sample Reference				BH06	BH06	BH07	BH07	BH08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.40	2.00-2.20	0.10	1.80	0.10
Date Sampled				25/05/2023	25/05/2023	24/05/2023	24/05/2023	24/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	< 10	-	< 10
Aldrin	µg/kg	10	NONE	-	-	< 10	-	< 10
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	< 10	-	< 10
BHC-beta	µg/kg	10	NONE	-	-	< 10	-	< 10
BHC-delta	µg/kg	10	NONE	-	-	< 10	-	< 10
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	< 10	-	< 10
Chlordane-cis	µg/kg	10	NONE	-	-	< 10	-	< 10
Chlordane-trans	µg/kg	10	NONE	-	-	< 10	-	< 10
Chlorothalonil	µg/kg	20	NONE	-	-	< 20	-	< 20
DDD-o,p'	µg/kg	10	NONE	-	-	< 10	-	< 10
DDD-p,p'	µg/kg	10	NONE	-	-	< 10	-	< 10
DDE-o,p'	µg/kg	10	NONE	-	-	< 10	-	< 10
DDE-p,p'	µg/kg	10	NONE	-	-	< 10	-	< 10
DDT-o,p'	µg/kg	10	NONE	-	-	< 10	-	< 10
DDT-p,p'	µg/kg	10	NONE	-	-	< 10	-	< 10
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	< 10	-	< 10
Dieldrin	µg/kg	10	NONE	-	-	< 10	-	< 10
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	< 10	-	< 10
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	< 10	-	< 10
Endosulfan sulfate	µg/kg	10	NONE	-	-	< 10	-	< 10
Endrin	µg/kg	20	NONE	-	-	< 20	-	< 20
Heptachlor	µg/kg	10	NONE	-	-	< 10	-	< 10
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	< 10	-	< 10
Hexachlorobenzene	µg/kg	10	NONE	-	-	< 10	-	< 10
Hexachlorobutadiene	µg/kg	10	NONE	-	-	< 10	-	< 10

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704408	2704409	2704410	2704411	2704412
Sample Reference				BH06	BH06	BH07	BH07	BH08
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.40	2.00-2.20	0.10	1.80	0.10
Date Sampled				25/05/2023	25/05/2023	24/05/2023	24/05/2023	24/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	< 20	-	< 20
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	< 20	-	< 20
Pendimethalin	µg/kg	10	NONE	-	-	< 10	-	< 10
Pentachlorobenzene	µg/kg	10	NONE	-	-	< 10	-	< 10
Propyzamide	µg/kg	10	NONE	-	-	< 10	-	< 10
Tecnazene	µg/kg	10	NONE	-	-	< 10	-	< 10
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	< 10	-	< 10
Triadimefon	µg/kg	10	NONE	-	-	< 10	-	< 10
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	< 10	-	< 10
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	< 10	-	< 10
Trifluralin	µg/kg	10	NONE	-	-	< 10	-	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704413	2704414	2704415	2704416	2704417
Sample Reference				BH08	BH08	BH09	BH09	BH10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	2.00	0.00-0.20	2.10-2.30	1.10
Date Sampled				24/05/2023	24/05/2023	25/05/2023	25/05/2023	25/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	13	17	10	13
Total mass of sample received	kg	0.001	NONE	0.3	0.3	0.5	0.3	0.3

Asbestos in Soil	Type	N/A	ISO 17025	-	-	Not-detected	-	-
Asbestos Analyst ID	N/A	N/A	N/A	N/A	N/A	MJN	N/A	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	8.4	7	-	-
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	50	-	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.025	0.12	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	25	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.2	-	2.9	< 0.1	< 0.1

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	0.36	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	0.09	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	0.86	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	0.72	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	0.32	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	0.4	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	0.45	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	0.28	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	0.39	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	0.28	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	0.33	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	4.48	-	-
-----------------------------	-------	-----	-----------	---	---	------	---	---

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	11	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	0.5	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	< 0.2	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	21	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	26	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	34	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	20	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	< 1.0	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	120	-	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704413	2704414	2704415	2704416	2704417
Sample Reference				BH08	BH08	BH09	BH09	BH10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	2.00	0.00-0.20	2.10-2.30	1.10
Date Sampled				24/05/2023	24/05/2023	25/05/2023	25/05/2023	25/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Toluene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
o-xylene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	< 5.0	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	< 0.001	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	< 10	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	< 0.001	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	< 10	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	18	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	21	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	-
BHC-beta	µg/kg	10	NONE	-	-	-	-	-
BHC-delta	µg/kg	10	NONE	-	-	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	-	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	20	NONE	-	-	-	-	-
Heptachlor	µg/kg	10	NONE	-	-	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-



Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704413	2704414	2704415	2704416	2704417
Sample Reference				BH08	BH08	BH09	BH09	BH10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	2.00	0.00-0.20	2.10-2.30	1.10
Date Sampled				24/05/2023	24/05/2023	25/05/2023	25/05/2023	25/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704418	2704419	2704420	2704421	2704422
Sample Reference				BH10	BH11	BH11	TP01	TP01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.60	0.20	0.45	0.10	0.70
Date Sampled				25/05/2023	24/05/2023	24/05/2023	26/05/2023	26/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	17	16	9.6	7.2
Total mass of sample received	kg	0.001	NONE	0.3	0.9	0.8	0.8	0.3

Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	N/A	N/A	N/A	MJN	MJN

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	-	6.1	4.7	6.5
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	49	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.024	-	0.0064	0.0037	0.014
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	24.3	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	0.17
Anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	0.24	0.21
Pyrene	mg/kg	0.05	MCERTS	-	-	-	0.22	0.16
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	-	< 0.80	< 0.80
-----------------------------	-------	-----	-----------	---	---	---	--------	--------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	15	11	8.2
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	0.8	0.3	0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	< 0.2	< 0.2	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	34	15	13
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	22	31	13
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	39	100	24
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	26	12	9
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	83	93	46

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704418	2704419	2704420	2704421	2704422
Sample Reference				BH10	BH11	BH11	TP01	TP01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.60	0.20	0.45	0.10	0.70
Date Sampled				25/05/2023	24/05/2023	24/05/2023	26/05/2023	26/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	< 10	-	-	-
Aldrin	µg/kg	10	NONE	-	< 10	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	< 10	-	-	-
BHC-beta	µg/kg	10	NONE	-	< 10	-	-	-
BHC-delta	µg/kg	10	NONE	-	< 10	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	< 10	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	< 10	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	< 10	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	< 20	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	< 10	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	< 10	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	< 10	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	< 10	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	< 10	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	< 10	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	< 10	-	-	-
Dieldrin	µg/kg	10	NONE	-	< 10	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	< 10	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	< 10	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	< 10	-	-	-
Endrin	µg/kg	20	NONE	-	< 20	-	-	-
Heptachlor	µg/kg	10	NONE	-	< 10	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	< 10	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	< 10	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	< 10	-	-	-

Analytical Report Number: 23-37833
 Project / Site name: long Lane, BurbageBullfu
 Your Order No: 3491G

Lab Sample Number				2704418	2704419	2704420	2704421	2704422
Sample Reference				BH10	BH11	BH11	TP01	TP01
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.60	0.20	0.45	0.10	0.70
Date Sampled				25/05/2023	24/05/2023	24/05/2023	26/05/2023	26/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	< 20	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	< 20	-	-	-
Pendimethalin	µg/kg	10	NONE	-	< 10	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	< 10	-	-	-
Propyzamide	µg/kg	10	NONE	-	< 10	-	-	-
Tecnazene	µg/kg	10	NONE	-	< 10	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	< 10	-	-	-
Triadimefon	µg/kg	10	NONE	-	< 10	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	< 10	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	< 10	-	-	-
Trifluralin	µg/kg	10	NONE	-	< 10	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704423	2704424	2704425	2704426	2704427
Sample Reference				TP01	TP02	TP02	TP03	TP03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.40	0.10	1.30	0.10	0.50
Date Sampled				26/05/2023	26/05/2023	26/05/2023	30/05/2023	30/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	13	13	11	12
Total mass of sample received	kg	0.001	NONE	0.3	0.5	0.3	0.8	0.3

Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	N/A	MJN	N/A	N/A	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.1	6.5	7.8	6.5	7.5
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	28	-	31	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.014	0.0047	0.015	0.0025	0.0017
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	13.8	-	15.3	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.7	-	0.6	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	-	-	-
-----------------------------	-------	-----	-----------	---	---	---	---	---

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	8.3	-	12	8.1
Boron (water soluble)	mg/kg	0.2	MCERTS	-	< 0.2	-	0.2	0.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	0.4	-	< 0.2	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	15	-	25	21
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	21	-	17	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	83	-	18	10
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	-	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	11	-	20	18
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	-	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	110	-	63	44

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704423	2704424	2704425	2704426	2704427
Sample Reference				TP01	TP02	TP02	TP03	TP03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.40	0.10	1.30	0.10	0.50
Date Sampled				26/05/2023	26/05/2023	26/05/2023	30/05/2023	30/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Toluene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
o-xylene	µg/kg	5	MCERTS	-	< 5.0	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	< 5.0	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	< 1.0	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	< 2.0	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	< 8.0	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	< 8.0	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	< 10	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	< 0.001	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	< 1.0	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	< 2.0	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	< 10	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	< 10	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	< 10	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	-
BHC-beta	µg/kg	10	NONE	-	-	-	-	-
BHC-delta	µg/kg	10	NONE	-	-	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	-	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	20	NONE	-	-	-	-	-
Heptachlor	µg/kg	10	NONE	-	-	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704423	2704424	2704425	2704426	2704427
Sample Reference				TP01	TP02	TP02	TP03	TP03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.40	0.10	1.30	0.10	0.50
Date Sampled				26/05/2023	26/05/2023	26/05/2023	30/05/2023	30/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704428	2704429	2704430	2704431	2704432
Sample Reference				TP04	TP04	TP05	TP06	TP07
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.40	0.60	0.20	0.20	0.30
Date Sampled				30/05/2023	30/05/2023	26/05/2023	26/05/2023	25/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	17	18	9.3	40	29
Total mass of sample received	kg	0.001	NONE	0.8	0.3	0.8	0.8	0.8

Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	5.4	6	-	5.5	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0066	0.0047	-	0.1	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	4.8	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	0.05
Fluorene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	0.07
Phenanthrene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	0.17
Anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	0.08
Pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	0.06
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	< 0.05	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	< 0.05	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	< 0.80	-	< 0.80
-----------------------------	-------	-----	-----------	---	---	--------	---	--------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	15	-	22	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9	0.6	-	5	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.6	-	< 0.2	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	30	35	-	29	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	20	24	-	30	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	43	31	-	58	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	-	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	18	29	-	23	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	-	< 1.0	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	81	92	-	100	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704428	2704429	2704430	2704431	2704432
Sample Reference				TP04	TP04	TP05	TP06	TP07
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.40	0.60	0.20	0.20	0.30
Date Sampled				30/05/2023	30/05/2023	26/05/2023	26/05/2023	25/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	-
BHC-beta	µg/kg	10	NONE	-	-	-	-	-
BHC-delta	µg/kg	10	NONE	-	-	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	-	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	20	NONE	-	-	-	-	-
Heptachlor	µg/kg	10	NONE	-	-	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704428	2704429	2704430	2704431	2704432
Sample Reference				TP04	TP04	TP05	TP06	TP07
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20-0.40	0.60	0.20	0.20	0.30
Date Sampled				30/05/2023	30/05/2023	26/05/2023	26/05/2023	25/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704433	2704434	2704435	2704436	2704437
Sample Reference				TP07	TP08	TP08	TP09	TP10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	0.10	2.80	0.10	0.10
Date Sampled				25/05/2023	30/05/2023	30/05/2023	31/05/2023	30/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	12	6.7	15	7	9
Total mass of sample received	kg	0.001	NONE	0.3	0.8	0.3	1.1	0.3

Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7	-	8.6	-	5.8
Water Soluble Sulphate as SO4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	12	-	11	-	-
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0059	-	0.0053	-	0.0069
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	5.9	-	5.3	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	-
Fluorene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	-
Phenanthrene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	-
Anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	-
Fluoranthene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	-
Pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	-
Chrysene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	< 0.05	-	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	< 0.05	-	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	< 0.05	-	< 0.05	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	< 0.80	-	< 0.80	-
-----------------------------	-------	-----	-----------	---	--------	---	--------	---

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	7.7
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	0.3
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	16
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	39
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	12
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	53

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704433	2704434	2704435	2704436	2704437
Sample Reference				TP07	TP08	TP08	TP09	TP10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	0.10	2.80	0.10	0.10
Date Sampled				25/05/2023	30/05/2023	30/05/2023	31/05/2023	30/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	-
BHC-beta	µg/kg	10	NONE	-	-	-	-	-
BHC-delta	µg/kg	10	NONE	-	-	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	-	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	20	NONE	-	-	-	-	-
Heptachlor	µg/kg	10	NONE	-	-	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-



Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704433	2704434	2704435	2704436	2704437
Sample Reference				TP07	TP08	TP08	TP09	TP10
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	0.10	2.80	0.10	0.10
Date Sampled				25/05/2023	30/05/2023	30/05/2023	31/05/2023	30/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704438	2704439	2704440	2704441	2704442
Sample Reference				TP11	TP11	TP12	TP12	TP13
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.70	0.10	2.90	0.10
Date Sampled				30/05/2023	30/05/2023	30/05/2023	30/05/2023	30/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	7	15	8	12	9.8
Total mass of sample received	kg	0.001	NONE	0.8	0.8	0.8	0.3	0.8

Asbestos in Soil	Type	N/A	ISO 17025	-	-	Not-detected	-	-
Asbestos Analyst ID	N/A	N/A	N/A	N/A	N/A	MJN	N/A	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	7	7.8	8	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	87	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.0043	0.0059	0.043	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	43.3	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	-	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	-	< 0.80	-	< 0.80
-----------------------------	-------	-----	-----------	--------	---	--------	---	--------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	22	8	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	0.3	0.8	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	37	20	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	26	16	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	20	18	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	61	17	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	82	48	-	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704438	2704439	2704440	2704441	2704442
Sample Reference				TP11	TP11	TP12	TP12	TP13
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.70	0.10	2.90	0.10
Date Sampled				30/05/2023	30/05/2023	30/05/2023	30/05/2023	30/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	-
BHC-beta	µg/kg	10	NONE	-	-	-	-	-
BHC-delta	µg/kg	10	NONE	-	-	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	-	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	20	NONE	-	-	-	-	-
Heptachlor	µg/kg	10	NONE	-	-	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-



Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704438	2704439	2704440	2704441	2704442
Sample Reference				TP11	TP11	TP12	TP12	TP13
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.70	0.10	2.90	0.10
Date Sampled				30/05/2023	30/05/2023	30/05/2023	30/05/2023	30/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704443	2704444	2704445	2704446	2704447
Sample Reference				TP14	TP14	TP15	TP16	TP18
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	1.70	040	0.60	0.40
Date Sampled				31/05/2023	31/05/2023	26/05/2023	30/05/2023	01/06/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	6.8	15	13	12	11
Total mass of sample received	kg	0.001	NONE	0.8	0.3	0.8	0.3	0.8

Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	5.9	8.2	-	6.8	5.5
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	14	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0039	0.0069	-	0.0021	0.0077
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	6.9	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	< 0.05	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	< 0.05	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	< 0.05	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	< 0.80	-	-
-----------------------------	-------	-----	-----------	---	---	--------	---	---

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	-	-	10	9.4
Boron (water soluble)	mg/kg	0.2	MCERTS	0.3	-	-	0.2	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	-	< 0.2	0.4
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	24	-	-	21	17
Copper (aqua regia extractable)	mg/kg	1	MCERTS	26	-	-	11	15
Lead (aqua regia extractable)	mg/kg	1	MCERTS	59	-	-	12	29
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	-	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	17	-	-	19	14
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	-	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	78	-	-	39	63

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704443	2704444	2704445	2704446	2704447
Sample Reference				TP14	TP14	TP15	TP16	TP18
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	1.70	040	0.60	0.40
Date Sampled				31/05/2023	31/05/2023	26/05/2023	30/05/2023	01/06/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	-
BHC-beta	µg/kg	10	NONE	-	-	-	-	-
BHC-delta	µg/kg	10	NONE	-	-	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	-	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	20	NONE	-	-	-	-	-
Heptachlor	µg/kg	10	NONE	-	-	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704443	2704444	2704445	2704446	2704447
Sample Reference				TP14	TP14	TP15	TP16	TP18
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	1.70	040	0.60	0.40
Date Sampled				31/05/2023	31/05/2023	26/05/2023	30/05/2023	01/06/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704448	2704449	2704450	2704451	2704452
Sample Reference				TP19	TP19	TP20	TP20	TP20
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.80	0.20	1.10	1.50
Date Sampled				01/06/2023	01/06/2023	30/05/2023	30/05/2023	30/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	9.5	14	6.8	10	12
Total mass of sample received	kg	0.001	NONE	0.8	0.3	0.8	0.3	0.3

Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	6.6	6.2	7.4	8
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	39
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.0025	0.012	0.008	0.02
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	19.7
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	-	-	-	-
-----------------------------	-------	-----	-----------	--------	---	---	---	---

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	15	9.3	11	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	0.3	0.2	0.4	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	< 0.2	< 0.2	< 0.2	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	31	15	21	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	18	14	10	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	16	31	12	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	< 0.3	< 0.3	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	33	11	15	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	< 1.0	< 1.0	< 1.0	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	66	66	42	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704448	2704449	2704450	2704451	2704452
Sample Reference				TP19	TP19	TP20	TP20	TP20
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.80	0.20	1.10	1.50
Date Sampled				01/06/2023	01/06/2023	30/05/2023	30/05/2023	30/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	-
BHC-beta	µg/kg	10	NONE	-	-	-	-	-
BHC-delta	µg/kg	10	NONE	-	-	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	-	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	20	NONE	-	-	-	-	-
Heptachlor	µg/kg	10	NONE	-	-	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-



Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704448	2704449	2704450	2704451	2704452
Sample Reference				TP19	TP19	TP20	TP20	TP20
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.80	0.20	1.10	1.50
Date Sampled				01/06/2023	01/06/2023	30/05/2023	30/05/2023	30/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704453	2704454	2704455	2704456	2704457
Sample Reference				TP21	TP22	TP22	TP24	TP25
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.10	.060	0.10	0.10
Date Sampled				01/06/2023	25/05/2023	25/05/2023	25/05/2023	31/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	-	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	6.6	-	12	11	7.1
Total mass of sample received	kg	0.001	NONE	0.8	-	0.3	0.8	0.9

Asbestos in Soil	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	N/A	MJN	N/A	N/A	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.2	-	6.3	-	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0054	-	0.0055	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	-	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	-	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	-	-	< 0.80	-
-----------------------------	-------	-----	-----------	--------	---	---	--------	---

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	8.6	-	11	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	-	0.6	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	15	-	23	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	15	-	18	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	32	-	14	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	11	-	27	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	54	-	51	-	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704453	2704454	2704455	2704456	2704457
Sample Reference				TP21	TP22	TP22	TP24	TP25
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.10	.060	0.10	0.10
Date Sampled				01/06/2023	25/05/2023	25/05/2023	25/05/2023	31/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	< 10
Aldrin	µg/kg	10	NONE	-	-	-	-	< 10
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	< 10
BHC-beta	µg/kg	10	NONE	-	-	-	-	< 10
BHC-delta	µg/kg	10	NONE	-	-	-	-	< 10
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	< 10
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	< 10
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	< 10
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	< 20
DDD-o,p'	µg/kg	10	NONE	-	-	-	-	< 10
DDD-p,p'	µg/kg	10	NONE	-	-	-	-	< 10
DDE-o,p'	µg/kg	10	NONE	-	-	-	-	< 10
DDE-p,p'	µg/kg	10	NONE	-	-	-	-	36
DDT-o,p'	µg/kg	10	NONE	-	-	-	-	< 10
DDT-p,p'	µg/kg	10	NONE	-	-	-	-	< 10
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	< 10
Dieldrin	µg/kg	10	NONE	-	-	-	-	< 10
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	< 10
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	< 10
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	< 10
Endrin	µg/kg	20	NONE	-	-	-	-	< 20
Heptachlor	µg/kg	10	NONE	-	-	-	-	< 10
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	-	-	< 10
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	< 10
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	< 10



Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704453	2704454	2704455	2704456	2704457
Sample Reference				TP21	TP22	TP22	TP24	TP25
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.10	.060	0.10	0.10
Date Sampled				01/06/2023	25/05/2023	25/05/2023	25/05/2023	31/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	-	-	< 20
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	< 20
Pendimethalin	µg/kg	10	NONE	-	-	-	-	< 10
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	< 10
Propyzamide	µg/kg	10	NONE	-	-	-	-	< 10
Tecnazene	µg/kg	10	NONE	-	-	-	-	< 10
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	-	-	< 10
Triadimefon	µg/kg	10	NONE	-	-	-	-	< 10
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	-	-	< 10
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	-	-	< 10
Trifluralin	µg/kg	10	NONE	-	-	-	-	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704458	2704459	2704460	2704461	2704462
Sample Reference				TP25	TP26	TP27	TP27	TP28
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.90	0.10	0.40	2.60	0.20
Date Sampled				31/05/2023	01/06/2023	01/06/2023	01/06/2023	24/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	8	7.6	11	11
Total mass of sample received	kg	0.001	NONE	0.3	0.8	0.9	0.3	0.8

Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	-	-	8	6.1
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	46	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	-	-	0.023	0.013
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	22.8	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.3	2.3	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	-	-	-
-----------------------------	-------	-----	-----------	---	---	---	---	---

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	13
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	18
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	18
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	42
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	15
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	64

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704458	2704459	2704460	2704461	2704462
Sample Reference				TP25	TP26	TP27	TP27	TP28
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.90	0.10	0.40	2.60	0.20
Date Sampled				31/05/2023	01/06/2023	01/06/2023	01/06/2023	24/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	< 10	-	-
Aldrin	µg/kg	10	NONE	-	-	< 10	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	< 10	-	-
BHC-beta	µg/kg	10	NONE	-	-	< 10	-	-
BHC-delta	µg/kg	10	NONE	-	-	< 10	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	< 10	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	< 10	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	< 10	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	< 20	-	-
DDD-o,p'	µg/kg	10	NONE	-	-	< 10	-	-
DDD-p,p'	µg/kg	10	NONE	-	-	< 10	-	-
DDE-o,p'	µg/kg	10	NONE	-	-	< 10	-	-
DDE-p,p'	µg/kg	10	NONE	-	-	< 10	-	-
DDT-o,p'	µg/kg	10	NONE	-	-	< 10	-	-
DDT-p,p'	µg/kg	10	NONE	-	-	< 10	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	< 10	-	-
Dieldrin	µg/kg	10	NONE	-	-	< 10	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	< 10	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	< 10	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	< 10	-	-
Endrin	µg/kg	20	NONE	-	-	< 20	-	-
Heptachlor	µg/kg	10	NONE	-	-	< 10	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	< 10	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	< 10	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	< 10	-	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704458	2704459	2704460	2704461	2704462
Sample Reference				TP25	TP26	TP27	TP27	TP28
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.90	0.10	0.40	2.60	0.20
Date Sampled				31/05/2023	01/06/2023	01/06/2023	01/06/2023	24/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	< 20	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	< 20	-	-
Pendimethalin	µg/kg	10	NONE	-	-	< 10	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	< 10	-	-
Propyzamide	µg/kg	10	NONE	-	-	< 10	-	-
Tecnazene	µg/kg	10	NONE	-	-	< 10	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	< 10	-	-
Triadimefon	µg/kg	10	NONE	-	-	< 10	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	< 10	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	< 10	-	-
Trifluralin	µg/kg	10	NONE	-	-	< 10	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704463	2704464	2704465	2704466	2704467
Sample Reference				TP29	TP29	TP30	TP31	TP31
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	1.80	1.20	0.10	3.10
Date Sampled				24/05/2023	24/05/2023	24/05/2023	24/05/2023	25/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	16	14	14	17
Total mass of sample received	kg	0.001	NONE	0.8	0.3	0.3	0.8	0.3

Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	N/A	N/A	N/A	MJN	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	8.4	-	-	7.7
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	5.6	-	-	1800
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.0028	-	-	0.9
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	2.8	-	-	895
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	0.4	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	-	-	0.14	-
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	0.12	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	-	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	-	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	-	< 0.05	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	-	-	< 0.80	-
-----------------------------	-------	-----	-----------	--------	---	---	--------	---

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	-	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	-	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	-	-	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704463	2704464	2704465	2704466	2704467
Sample Reference				TP29	TP29	TP30	TP31	TP31
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	1.80	1.20	0.10	3.10
Date Sampled				24/05/2023	24/05/2023	24/05/2023	24/05/2023	25/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	-
BHC-beta	µg/kg	10	NONE	-	-	-	-	-
BHC-delta	µg/kg	10	NONE	-	-	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	-	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	20	NONE	-	-	-	-	-
Heptachlor	µg/kg	10	NONE	-	-	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-



Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704463	2704464	2704465	2704466	2704467
Sample Reference				TP29	TP29	TP30	TP31	TP31
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	1.80	1.20	0.10	3.10
Date Sampled				24/05/2023	24/05/2023	24/05/2023	24/05/2023	25/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704468	2704469	2704470	2704471	2704472
Sample Reference				TP32	TP34	TP35	TP35	TP36
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.10	0.10	0.40	0.10
Date Sampled				24/05/2023	01/06/2023	31/05/2023	31/05/2023	25/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	9.1	12	14	8.5
Total mass of sample received	kg	0.001	NONE	0.8	0.8	0.9	0.3	0.8

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	-	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MJN	IZJ	N/A	N/A	IZJ

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	6.5	5.2	6.9	8.2	8.3
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.015	0.0073	0.005	0.024	0.13
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	0.16
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	0.39
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	0.37
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	0.16
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	0.25
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	-	0.25
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	-	0.13
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	0.22
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	0.16
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	-	0.16

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	< 0.80	-	2.25
-----------------------------	-------	-----	-----------	--------	--------	--------	---	------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	11	10	11	15
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9	0.2	0.4	0.6	0.9
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	16	17	28	16
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19	13	17	18	22
Lead (aqua regia extractable)	mg/kg	1	MCERTS	32	26	35	14	71
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	18	13	17	29	15
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	71	60	67	51	110

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704468	2704469	2704470	2704471	2704472
Sample Reference				TP32	TP34	TP35	TP35	TP36
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.10	0.10	0.40	0.10
Date Sampled				24/05/2023	01/06/2023	31/05/2023	31/05/2023	25/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	-
BHC-beta	µg/kg	10	NONE	-	-	-	-	-
BHC-delta	µg/kg	10	NONE	-	-	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	-	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	20	NONE	-	-	-	-	-
Heptachlor	µg/kg	10	NONE	-	-	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704468	2704469	2704470	2704471	2704472
Sample Reference				TP32	TP34	TP35	TP35	TP36
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.10	0.10	0.40	0.10
Date Sampled				24/05/2023	01/06/2023	31/05/2023	31/05/2023	25/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704473	2704474	2704475	2704476	2704477
Sample Reference				TP36	TP36	TP37	TP38	TP38
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.50	3.00	0.10	0.20	1.60
Date Sampled				25/05/2023	25/05/2023	24/05/2023	24/05/2023	24/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	20	18	11	15	17
Total mass of sample received	kg	0.001	NONE	0.8	0.8	0.3	0.3	0.3

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	-	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	IZJ	IZJ	N/A	IZJ	IZJ

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.6	8.2	5.4	5.5	6.9
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.23	0.021	0.0071	0.0057	0.0038
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.07	< 0.05	-	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.06	< 0.05	-	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.93	< 0.05	-	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	0.33	< 0.05	-	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	1.7	< 0.05	-	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	1.5	< 0.05	-	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.69	< 0.05	-	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	0.86	< 0.05	-	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.83	< 0.05	-	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.51	< 0.05	-	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.8	< 0.05	-	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.51	< 0.05	-	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	-	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.65	< 0.05	-	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	9.43	< 0.80	-	< 0.80	< 0.80
-----------------------------	-------	-----	-----------	------	--------	---	--------	--------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	13	13	9.9	13	12
Boron (water soluble)	mg/kg	0.2	MCERTS	2	1	0.3	0.9	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.6	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	21	18	28	29
Copper (aqua regia extractable)	mg/kg	1	MCERTS	66	20	16	25	17
Lead (aqua regia extractable)	mg/kg	1	MCERTS	99	12	31	71	23
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	0.5	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	18	23	15	19	23
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	130	53	66	93	70

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704473	2704474	2704475	2704476	2704477
Sample Reference				TP36	TP36	TP37	TP38	TP38
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.50	3.00	0.10	0.20	1.60
Date Sampled				25/05/2023	25/05/2023	24/05/2023	24/05/2023	24/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	-
BHC-beta	µg/kg	10	NONE	-	-	-	-	-
BHC-delta	µg/kg	10	NONE	-	-	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	-	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	20	NONE	-	-	-	-	-
Heptachlor	µg/kg	10	NONE	-	-	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704473	2704474	2704475	2704476	2704477
Sample Reference				TP36	TP36	TP37	TP38	TP38
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.50	3.00	0.10	0.20	1.60
Date Sampled				25/05/2023	25/05/2023	24/05/2023	24/05/2023	24/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704478	2704479	2704480	2704481	2704482
Sample Reference				TP39	TP39	TP40	TP40	TP41
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	2.00	0.30	1.00	0.30
Date Sampled				24/05/2023	25/05/2023	26/05/2023	26/05/2023	26/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	13	15	10	12	14
Total mass of sample received	kg	0.001	NONE	0.8	0.3	0.8	0.3	0.8

Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	-
Asbestos Analyst ID	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	-	8	5.3	5.2	5.6
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	370	-	6.1	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	-	0.18	0.01	0.0031	0.0076
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	184	-	3.1	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	0.19	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	0.09	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	0.38	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	0.35	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.21	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	0.27	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.18	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.11	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.15	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.07	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.11	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	2.11	-	-	-	-
-----------------------------	-------	-----	-----------	------	---	---	---	---

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	-	-	9.4	-	14
Boron (water soluble)	mg/kg	0.2	MCERTS	-	-	0.5	-	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	-	-	< 0.2	-	< 0.2
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	17	-	24
Copper (aqua regia extractable)	mg/kg	1	MCERTS	-	-	15	-	20
Lead (aqua regia extractable)	mg/kg	1	MCERTS	-	-	36	-	55
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	-	-	< 0.3	-	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	-	-	13	-	17
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	-	-	< 1.0	-	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	-	-	55	-	66

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704478	2704479	2704480	2704481	2704482
Sample Reference				TP39	TP39	TP40	TP40	TP41
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	2.00	0.30	1.00	0.30
Date Sampled				24/05/2023	25/05/2023	26/05/2023	26/05/2023	26/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	-
BHC-beta	µg/kg	10	NONE	-	-	-	-	-
BHC-delta	µg/kg	10	NONE	-	-	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	-	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	20	NONE	-	-	-	-	-
Heptachlor	µg/kg	10	NONE	-	-	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-



Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704478	2704479	2704480	2704481	2704482
Sample Reference				TP39	TP39	TP40	TP40	TP41
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	2.00	0.30	1.00	0.30
Date Sampled				24/05/2023	25/05/2023	26/05/2023	26/05/2023	26/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704483	2704484	2704485	2704486	2704487
Sample Reference				TP42	TP43	TP44	TP44	TP45
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	0.20	0.30	1.80	0.10-0.20
Date Sampled				31/05/2023	30/05/2023	01/06/2023	01/06/2023	31/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	10	8.7	12	12	6.7
Total mass of sample received	kg	0.001	NONE	0.3	0.8	0.8	0.3	0.9

Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	-	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	N/A	N/A	N/A	N/A	IZJ

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8	6.2	6.7	8.3	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	26	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0098	0.0057	0.0034	0.013	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	13.1	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	-	-	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	-	-	< 0.80
-----------------------------	-------	-----	-----------	---	---	---	---	--------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	27	11	11	-	-
Boron (water soluble)	mg/kg	0.2	MCERTS	0.2	0.3	0.6	-	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	31	23	23	-	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	23	28	15	-	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	19	43	35	-	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	-	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	43	16	17	-	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	-	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	110	66	60	-	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704483	2704484	2704485	2704486	2704487
Sample Reference				TP42	TP43	TP44	TP44	TP45
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	0.20	0.30	1.80	0.10-0.20
Date Sampled				31/05/2023	30/05/2023	01/06/2023	01/06/2023	31/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics & Oxygenates								
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-	-
BHC-beta	µg/kg	10	NONE	-	-	-	-	-
BHC-delta	µg/kg	10	NONE	-	-	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	-	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	-	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	-
Endrin	µg/kg	20	NONE	-	-	-	-	-
Heptachlor	µg/kg	10	NONE	-	-	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704483	2704484	2704485	2704486	2704487
Sample Reference				TP42	TP43	TP44	TP44	TP45
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	0.20	0.30	1.80	0.10-0.20
Date Sampled				31/05/2023	30/05/2023	01/06/2023	01/06/2023	31/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Isodrin	µg/kg	20	NONE	-	-	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704488	2704489	2704490	2704491
Sample Reference				TP45	TP47	TP48	TP49
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	1.40	0.20	0.10
Date Sampled				31/05/2023	24/05/2023	26/05/2023	26/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	-
Moisture Content	%	0.01	NONE	9.3	14	9.6	-
Total mass of sample received	kg	0.001	NONE	0.3	0.3	0.8	-

Asbestos in Soil	Type	N/A	ISO 17025	-	-	-	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	N/A	N/A	N/A	IZJ

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7	-	5.5	-
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	-	-	-	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0031	-	0.0044	-
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	-	-	-	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	-	0.1	-	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	-	-	-	-
Acenaphthylene	mg/kg	0.05	MCERTS	-	-	-	-
Acenaphthene	mg/kg	0.05	MCERTS	-	-	-	-
Fluorene	mg/kg	0.05	MCERTS	-	-	-	-
Phenanthrene	mg/kg	0.05	MCERTS	-	-	-	-
Anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Fluoranthene	mg/kg	0.05	MCERTS	-	-	-	-
Pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Chrysene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	-	-	-	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	-	-	-	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	-	-	-	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	-	-	-	-

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	-	-	-	-
-----------------------------	-------	-----	-----------	---	---	---	---

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	12	-	10	-
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	-	0.4	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	20	-	24	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	13	-	20	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	15	-	35	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	16	-	17	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	< 1.0	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	46	-	67	-

Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704488	2704489	2704490	2704491
Sample Reference				TP45	TP47	TP48	TP49
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	1.40	0.20	0.10
Date Sampled				31/05/2023	24/05/2023	26/05/2023	26/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Monoaromatics & Oxygenates							
Benzene	µg/kg	5	MCERTS	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-
p & m-xylene	µg/kg	5	MCERTS	-	-	-	-
o-xylene	µg/kg	5	MCERTS	-	-	-	-
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	NONE	-	-	-	-

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-
TPH-CWG - Aliphatic >EC6 - EC8 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-
TPH-CWG - Aliphatic >EC8 - EC10 _{HS_1D_AL}	mg/kg	0.001	NONE	-	-	-	-
TPH-CWG - Aliphatic >EC10 - EC12 _{EH_CU_1D_AL}	mg/kg	1	MCERTS	-	-	-	-
TPH-CWG - Aliphatic >EC12 - EC16 _{EH_CU_1D_AL}	mg/kg	2	MCERTS	-	-	-	-
TPH-CWG - Aliphatic >EC16 - EC21 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-
TPH-CWG - Aliphatic >EC21 - EC35 _{EH_CU_1D_AL}	mg/kg	8	MCERTS	-	-	-	-
TPH-CWG - Aliphatic (EC5 - EC35) _{EH_CU+HS_1D_AL}	mg/kg	10	NONE	-	-	-	-

TPH-CWG - Aromatic >EC5 - EC7 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-
TPH-CWG - Aromatic >EC7 - EC8 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-
TPH-CWG - Aromatic >EC8 - EC10 _{HS_1D_AR}	mg/kg	0.001	NONE	-	-	-	-
TPH-CWG - Aromatic >EC10 - EC12 _{EH_CU_1D_AR}	mg/kg	1	MCERTS	-	-	-	-
TPH-CWG - Aromatic >EC12 - EC16 _{EH_CU_1D_AR}	mg/kg	2	MCERTS	-	-	-	-
TPH-CWG - Aromatic >EC16 - EC21 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-
TPH-CWG - Aromatic >EC21 - EC35 _{EH_CU_1D_AR}	mg/kg	10	MCERTS	-	-	-	-
TPH-CWG - Aromatic (EC5 - EC35) _{EH_CU+HS_1D_AR}	mg/kg	10	NONE	-	-	-	-

Pesticides

Alachlor	µg/kg	10	NONE	-	-	-	-
Aldrin	µg/kg	10	NONE	-	-	-	-
BHC-alpha (benzene hexachloride)	µg/kg	10	NONE	-	-	-	-
BHC-beta	µg/kg	10	NONE	-	-	-	-
BHC-delta	µg/kg	10	NONE	-	-	-	-
BHC-gamma (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-
Chlordane-cis	µg/kg	10	NONE	-	-	-	-
Chlordane-trans	µg/kg	10	NONE	-	-	-	-
Chlorothalonil	µg/kg	20	NONE	-	-	-	-
DDD-o,p'	µg/kg	10	NONE	-	-	-	-
DDD-p,p'	µg/kg	10	NONE	-	-	-	-
DDE-o,p'	µg/kg	10	NONE	-	-	-	-
DDE-p,p'	µg/kg	10	NONE	-	-	-	-
DDT-o,p'	µg/kg	10	NONE	-	-	-	-
DDT-p,p'	µg/kg	10	NONE	-	-	-	-
Dichlorobenzonitrile, 2,6-	µg/kg	10	NONE	-	-	-	-
Dieldrin	µg/kg	10	NONE	-	-	-	-
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-
Endrin	µg/kg	20	NONE	-	-	-	-
Heptachlor	µg/kg	10	NONE	-	-	-	-
Heptachlor exo-epoxide	µg/kg	10	NONE	-	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-



Analytical Report Number: 23-37833
Project / Site name: long Lane, BurbageBullfu
Your Order No: 3491G

Lab Sample Number				2704488	2704489	2704490	2704491
Sample Reference				TP45	TP47	TP48	TP49
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.40	1.40	0.20	0.10
Date Sampled				31/05/2023	24/05/2023	26/05/2023	26/05/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Isodrin	µg/kg	20	NONE	-	-	-	-
Methoxychlor, p,p'-	µg/kg	20	NONE	-	-	-	-
Pendimethalin	µg/kg	10	NONE	-	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-
Propyzamide	µg/kg	10	NONE	-	-	-	-
Tecnazene	µg/kg	10	NONE	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	µg/kg	10	NONE	-	-	-	-
Triadimefon	µg/kg	10	NONE	-	-	-	-
Trichlorobenzene, 1,2,3-	µg/kg	10	NONE	-	-	-	-
Trichlorobenzene, 1,3,5-	µg/kg	10	NONE	-	-	-	-
Trifluralin	µg/kg	10	NONE	-	-	-	-

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 23-37833
Project / Site name: long Lane, BurbageBullfu

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2704398	BH01	None Supplied	0.20-0.40	Brown clay and loam with vegetation.
2704399	BH02	None Supplied	0.2	Brown loam and sand with vegetation and gravel.
2704400	BH02	None Supplied	0.9	Brown clay and sand.
2704401	BH02	None Supplied	4	Brown clay.
2704402	BH03	None Supplied	0.3	Brown clay and sand with vegetation.
2704403	BH03	None Supplied	3.10-3.30	Brown sand with gravel.
2704404	BH04	None Supplied	0.1	Brown loam and clay with gravel and vegetation.
2704405	BH04	None Supplied	0.4	Brown loam and clay with gravel and vegetation.
2704406	BH04	None Supplied	1.9	Brown sand with gravel.
2704407	BH05	None Supplied	0.5	Brown loam and clay with gravel and vegetation.
2704409	BH06	None Supplied	2.00-2.20	Brown clay and sand with gravel.
2704410	BH07	None Supplied	0.1	Brown loam and clay with gravel and vegetation.
2704411	BH07	None Supplied	1.8	Brown clay.
2704412	BH08	None Supplied	0.1	Brown loam and clay with gravel and vegetation.
2704413	BH08	None Supplied	0.8	Brown clay and loam with gravel and vegetation.
2704414	BH08	None Supplied	2	Brown clay and loam with gravel and vegetation.
2704415	BH09	None Supplied	0.00-0.20	Brown clay and loam with gravel and vegetation.
2704416	BH09	None Supplied	2.10-2.30	Brown clay and sand with gravel.
2704417	BH10	None Supplied	1.1	Brown clay and sand with gravel.
2704418	BH10	None Supplied	1.6	Brown clay and sand with gravel.
2704419	BH11	None Supplied	0.2	Brown clay and loam with vegetation.
2704420	BH11	None Supplied	0.45	Brown clay and loam with vegetation.
2704421	TP01	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2704422	TP01	None Supplied	0.7	Brown loam and sand with gravel and vegetation.
2704423	TP01	None Supplied	2.4	Brown loam and clay with gravel and vegetation.
2704424	TP02	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2704425	TP02	None Supplied	1.3	Brown clay and sand with gravel.
2704426	TP03	None Supplied	0.1	Brown loam and clay with gravel and vegetation.
2704427	TP03	None Supplied	0.5	Brown clay and sand with gravel.
2704428	TP04	None Supplied	0.20-0.40	Brown clay and loam with gravel and vegetation.
2704429	TP04	None Supplied	0.6	Brown clay and sand with gravel and vegetation.
2704430	TP05	None Supplied	0.2	Brown loam and clay with gravel and vegetation.
2704431	TP06	None Supplied	0.2	Brown loam and clay with gravel and vegetation.
2704432	TP07	None Supplied	0.3	Brown loam and clay with gravel and vegetation.
2704433	TP07	None Supplied	0.8	Brown clay and loam with gravel and vegetation.
2704434	TP08	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2704435	TP08	None Supplied	2.8	Brown clay and sand with gravel.
2704436	TP09	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2704437	TP10	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2704438	TP11	None Supplied	0.2	Brown loam and sand with gravel and vegetation.
2704439	TP11	None Supplied	0.7	Brown clay and sand with gravel.
2704440	TP12	None Supplied	0.1	Brown clay and loam with vegetation.
2704441	TP12	None Supplied	2.9	Brown clay and loam with vegetation.
2704442	TP13	None Supplied	0.1	Brown clay and loam with gravel and vegetation.
2704443	TP14	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2704444	TP14	None Supplied	1.7	Brown clay and sand with gravel.
2704445	TP15	None Supplied	40	Brown clay and loam with gravel and vegetation.
2704446	TP16	None Supplied	0.6	Brown clay and sand with gravel.
2704447	TP18	None Supplied	0.4	Brown loam and clay with vegetation.
2704448	TP19	None Supplied	0.2	Brown loam and clay with vegetation.
2704449	TP19	None Supplied	0.8	Brown clay and sand with gravel.
2704450	TP20	None Supplied	0.2	Brown loam and sand with gravel and vegetation.
2704451	TP20	None Supplied	1.1	Brown clay and sand with gravel.
2704452	TP20	None Supplied	1.5	Brown clay and sand with gravel.
2704453	TP21	None Supplied	0.2	Brown loam and sand with gravel and vegetation.
2704455	TP22	None Supplied	0.06	Brown clay and loam with gravel and vegetation.
2704456	TP24	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2704457	TP25	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2704458	TP25	None Supplied	1.9	Light brown clay and sand with gravel.

Analytical Report Number : 23-37833
Project / Site name: long Lane, BurbageBullfu

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2704459	TP26	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2704460	TP27	None Supplied	0.4	Brown loam and sand with gravel and vegetation.
2704461	TP27	None Supplied	2.6	Brown clay and sand with gravel.
2704462	TP28	None Supplied	0.2	Brown loam and sand with gravel and vegetation.
2704463	TP29	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2704464	TP29	None Supplied	1.8	Brown clay and sand with gravel.
2704465	TP30	None Supplied	1.2	Brown clay and sand with gravel.
2704466	TP31	None Supplied	0.1	Brown loam and clay with gravel and vegetation.
2704467	TP31	None Supplied	3.1	Brown loam and clay with vegetation.
2704468	TP32	None Supplied	0.2	Brown loam and clay with gravel and vegetation.
2704469	TP34	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2704470	TP35	None Supplied	0.1	Brown loam and clay with gravel and vegetation.
2704471	TP35	None Supplied	0.4	Brown loam and clay with gravel and vegetation.
2704472	TP36	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2704473	TP36	None Supplied	1.5	Brown clay and sand with gravel.
2704474	TP36	None Supplied	3	Brown clay with gravel.
2704475	TP37	None Supplied	0.1	Brown loam and sand with gravel and vegetation.
2704476	TP38	None Supplied	0.2	Brown loam and clay with gravel and vegetation.
2704477	TP38	None Supplied	1.6	Brown clay and sand with gravel.
2704478	TP39	None Supplied	0.1	Brown loam and clay with gravel and vegetation.
2704479	TP39	None Supplied	2	Brown clay and sand with gravel.
2704480	TP40	None Supplied	0.3	Brown loam and sand with gravel and vegetation.
2704481	TP40	None Supplied	1	Brown loam and clay with gravel and vegetation.
2704482	TP41	None Supplied	0.3	Brown loam and clay with gravel and vegetation.
2704483	TP42	None Supplied	0.8	Brown clay and sand with gravel.
2704484	TP43	None Supplied	0.2	Brown loam and sand with gravel and vegetation.
2704485	TP44	None Supplied	0.3	Brown loam and clay with gravel and vegetation.
2704486	TP44	None Supplied	1.8	Brown clay with gravel.
2704487	TP45	None Supplied	0.10-0.20	Brown loam and sand with gravel and vegetation.
2704488	TP45	None Supplied	0.4	Brown loam and clay with gravel and vegetation.
2704489	TP47	None Supplied	1.4	Brown sand with gravel.
2704490	TP48	None Supplied	0.2	Brown loam and clay with gravel and vegetation.

Analytical Report Number : 23-37833

Project / Site name: long Lane, BurbageBullfu

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
Pesticides by GC-MS/MS	Detemination of Pesticides in soil by GC MS/MS	In-house method	L055B-PL	W	NONE
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

Analytical Report Number : 23-37833
Project / Site name: long Lane, BurbageBullfu

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total



Analytical Report Number : 23-37833
Project / Site name: long Lane, BurbageBullfu

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
BH02	None Supplied	S	2704399	b	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	b
BH02	None Supplied	S	2704399	b	TPHCWG (Soil)	L088/76-PL	b
BH09	None Supplied	S	2704415	b	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	b
BH09	None Supplied	S	2704415	b	TPHCWG (Soil)	L088/76-PL	b
TP02	None Supplied	S	2704424	b	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	b
TP02	None Supplied	S	2704424	b	TPHCWG (Soil)	L088/76-PL	b

APPENDIX 13
Laboratory Geotechnical Test Results

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 25/05/2023

Date Received: 01/06/2023

Date Tested: 16/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2704494

Hole No.: BH01

Sample Reference: Not Given

Sample Description: Dark brown slightly gravelly slightly sandy CLAY

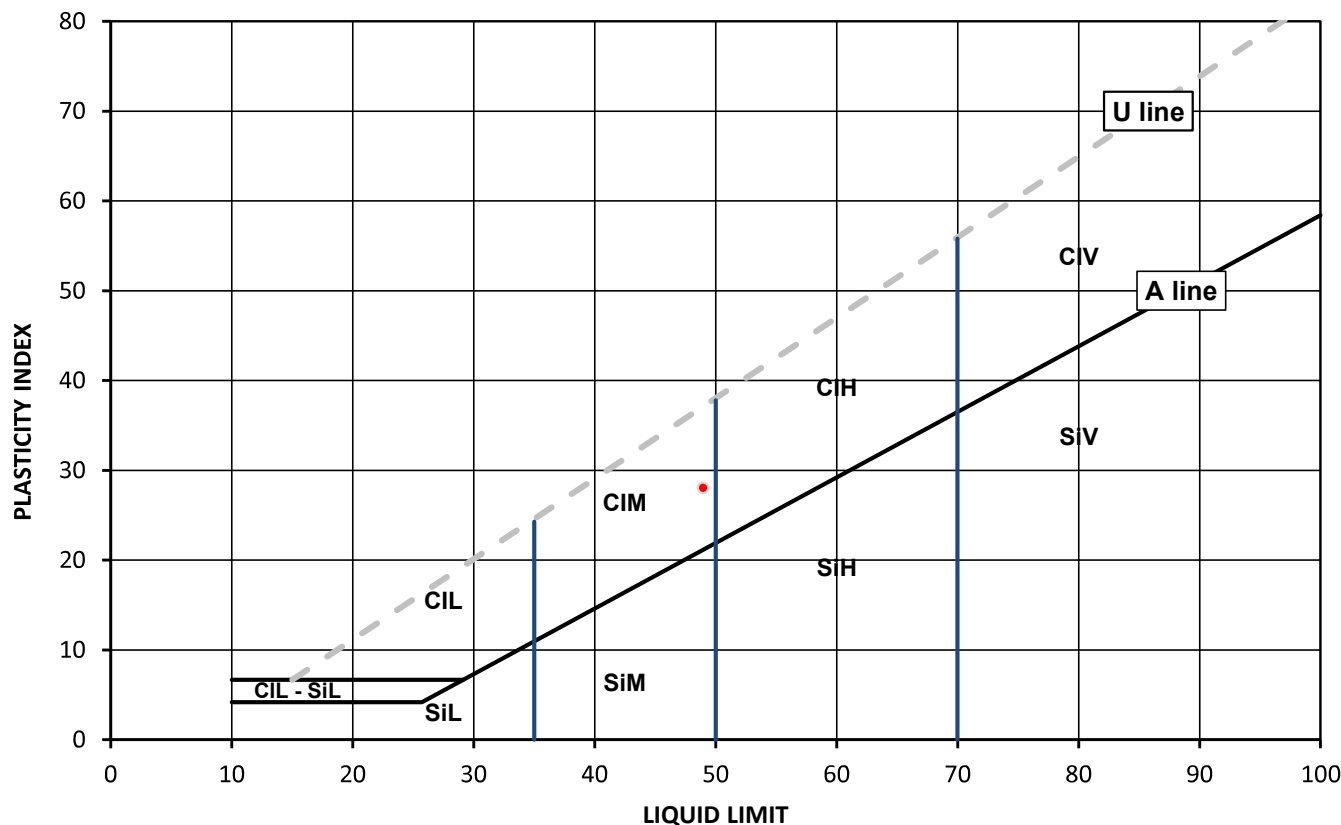
Depth Top [m]: 3.20

Depth Base [m]: 3.60

Sample Type: B

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
15	49	21	28	98



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 25/05/2023

Date Received: 01/06/2023

Date Tested: 16/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2704495

Hole No.: BH02

Sample Reference: Not Given

Sample Description: Yellowish brown very sandy CLAY

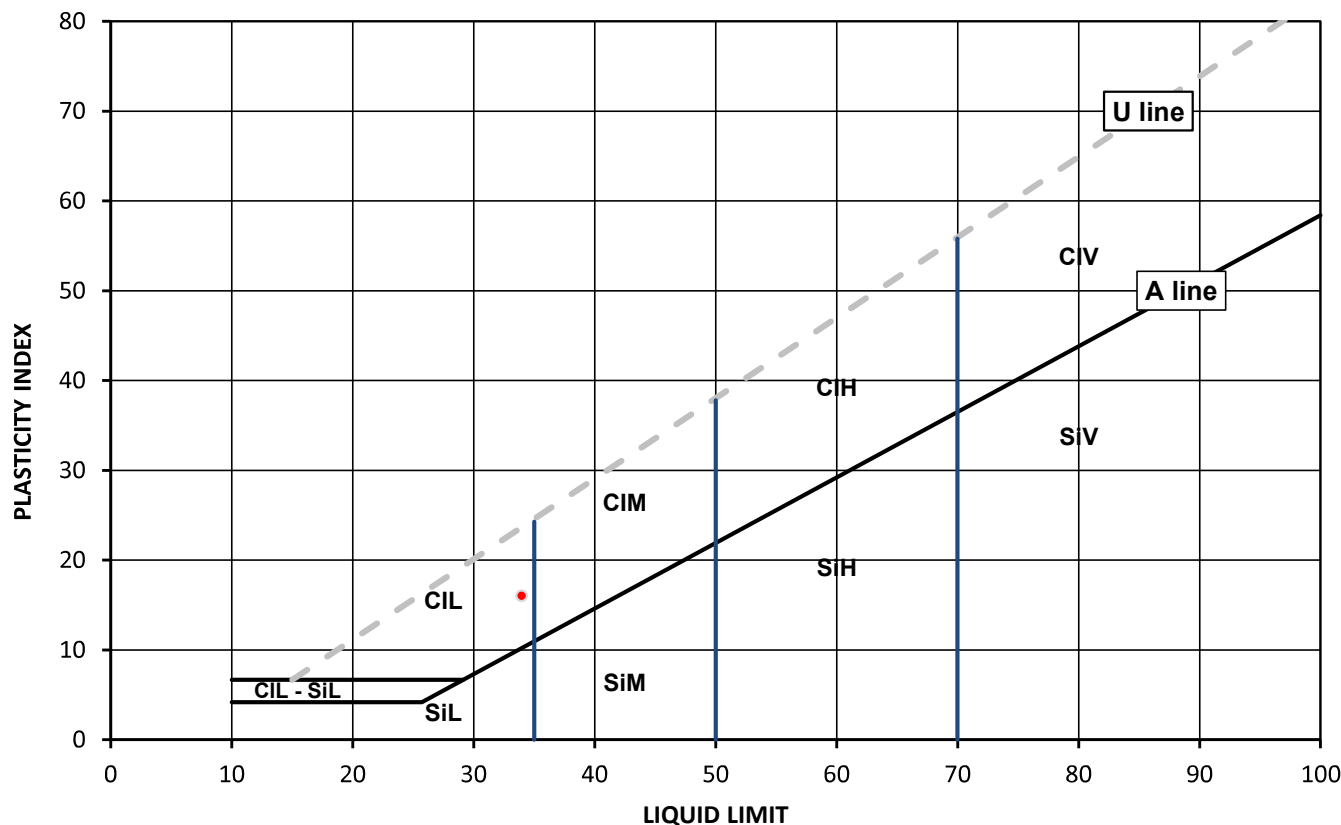
Depth Top [m]: 1.50

Depth Base [m]: 1.80

Sample Type: B

Sample Preparation: Tested in natural condition

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
17	34	18	16	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

4041

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 24/05/2023

Date Received: 01/06/2023

Date Tested: 16/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2704496

Hole No.: BH03

Sample Reference: Not Given

Sample Description: Brown slightly gravelly sandy CLAY

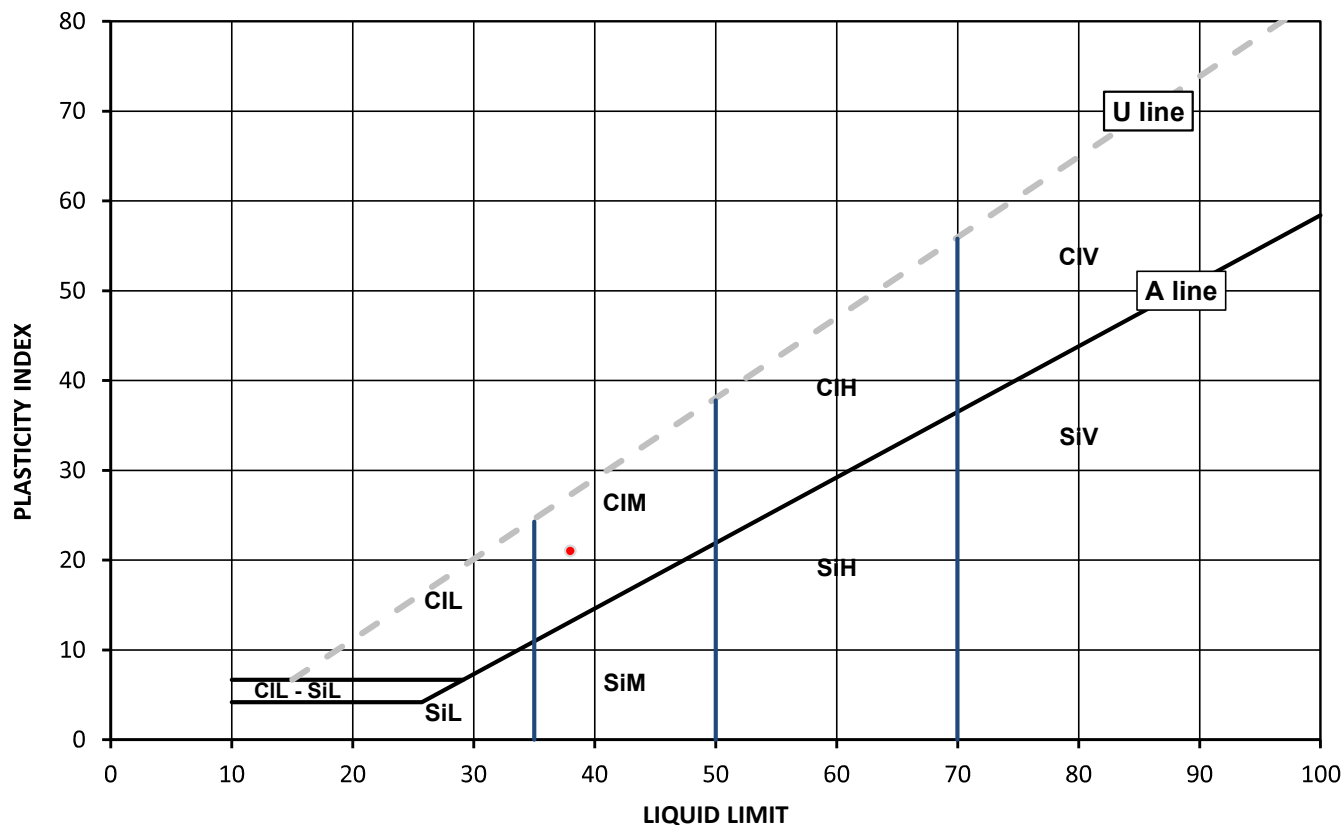
Depth Top [m]: 1.50

Depth Base [m]: 2.00

Sample Type: B

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
14	38	17	21	98



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Client: Travis Baker Geo-Environmental Limited
Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY
Contact: Daniel Potts
Site Address: Bullfurlong Lane, Burbage

Client Reference: 23046
Job Number: 23-37834-1
Date Sampled: 24/05/2023
Date Received: 01/06/2002
Date Tested: 16/06/2023
Sampled By: Client - DP

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

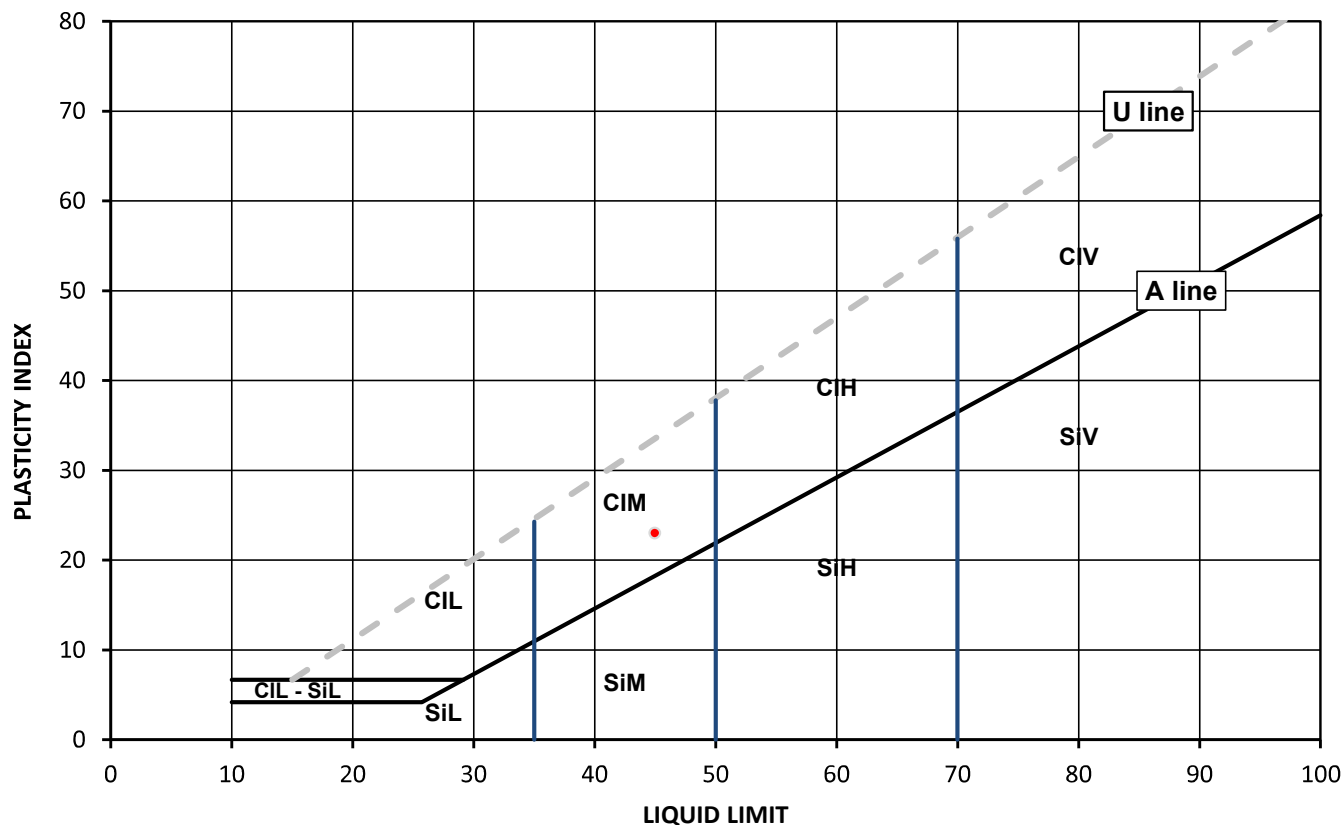
Test Results:

Laboratory Reference: 2704497
Hole No.: BH04
Sample Reference: Not Given
Sample Description: Brown slightly gravelly sandy CLAY

Depth Top [m]: 1.40
Depth Base [m]: 1.70
Sample Type: B

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
27	45	22	23	96



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 24/05/2023

Date Received: 01/06/2023

Date Tested: 16/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2704498

Hole No.: BH05

Sample Reference: Not Given

Sample Description: Dark brown sandy CLAY

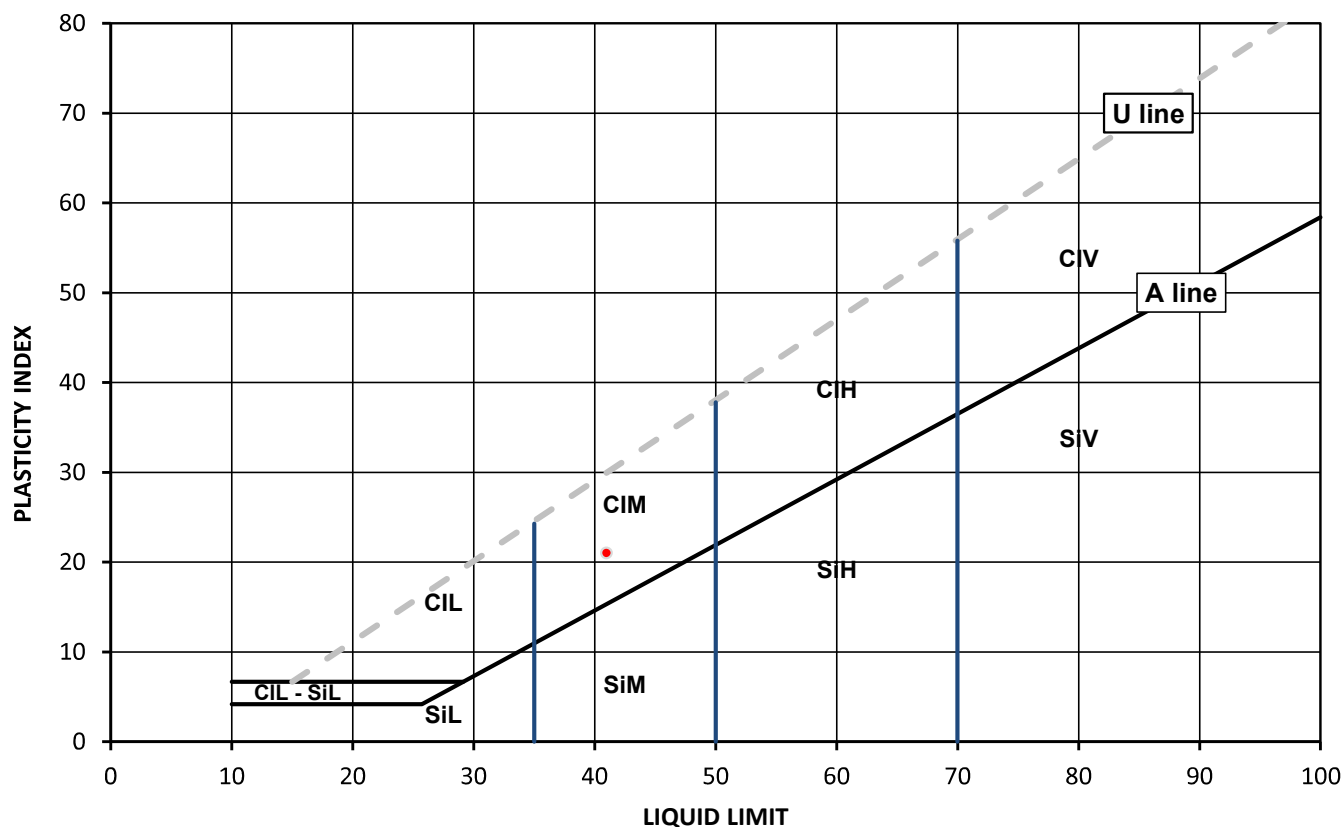
Depth Top [m]: 1.80

Depth Base [m]: 2.00

Sample Type: B

Sample Preparation: Tested in natural condition

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
18	41	20	21	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 25/05/2023

Date Received: 01/06/2023

Date Tested: 16/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2704499

Hole No.: BH06

Sample Reference: Not Given

Sample Description: Brownish grey sandy CLAY

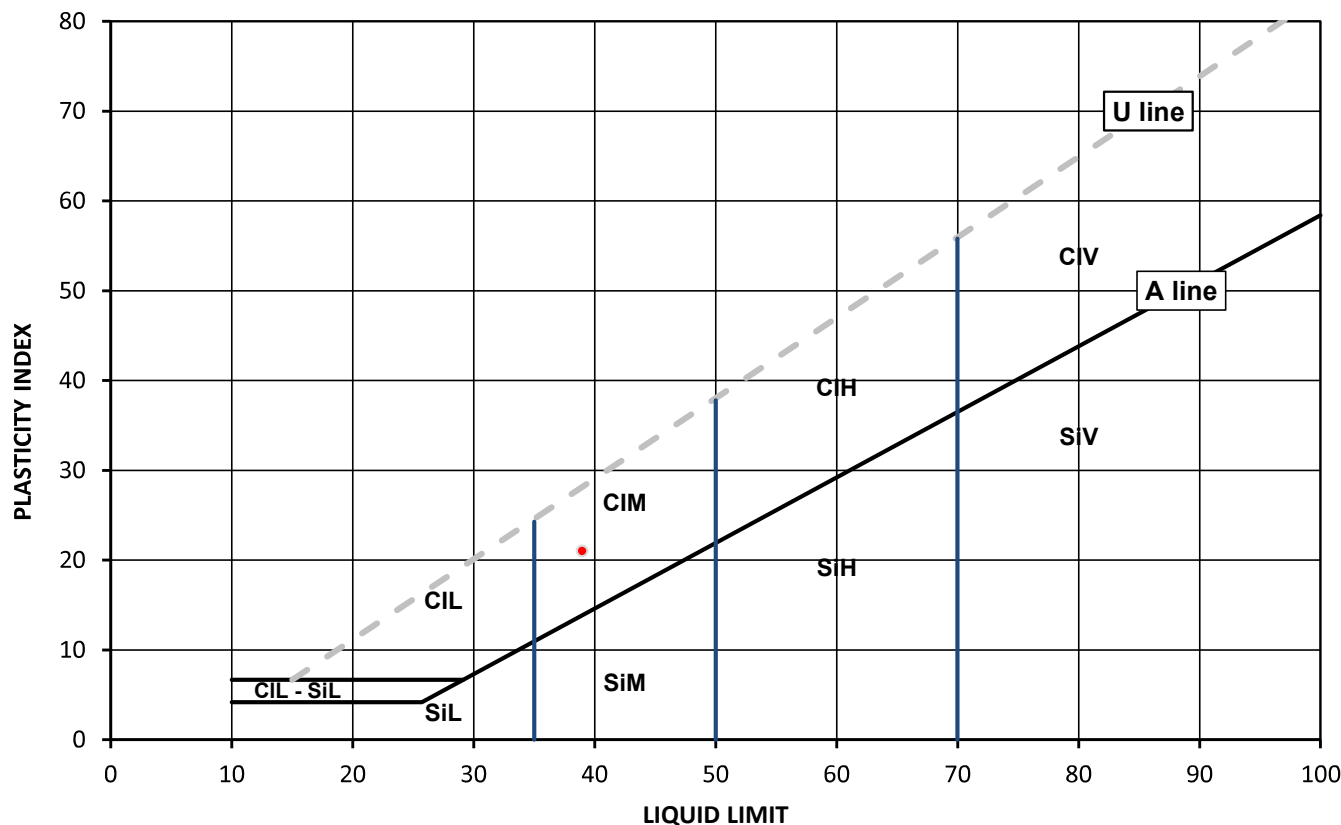
Depth Top [m]: 2.00

Depth Base [m]: 2.50

Sample Type: B

Sample Preparation: Tested in natural condition

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
17	39	18	21	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 24/05/2023

Date Received: 01/06/2023

Date Tested: 16/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2704500

Hole No.: BH07

Sample Reference: Not Given

Sample Description: Brown slightly gravelly slightly sandy CLAY

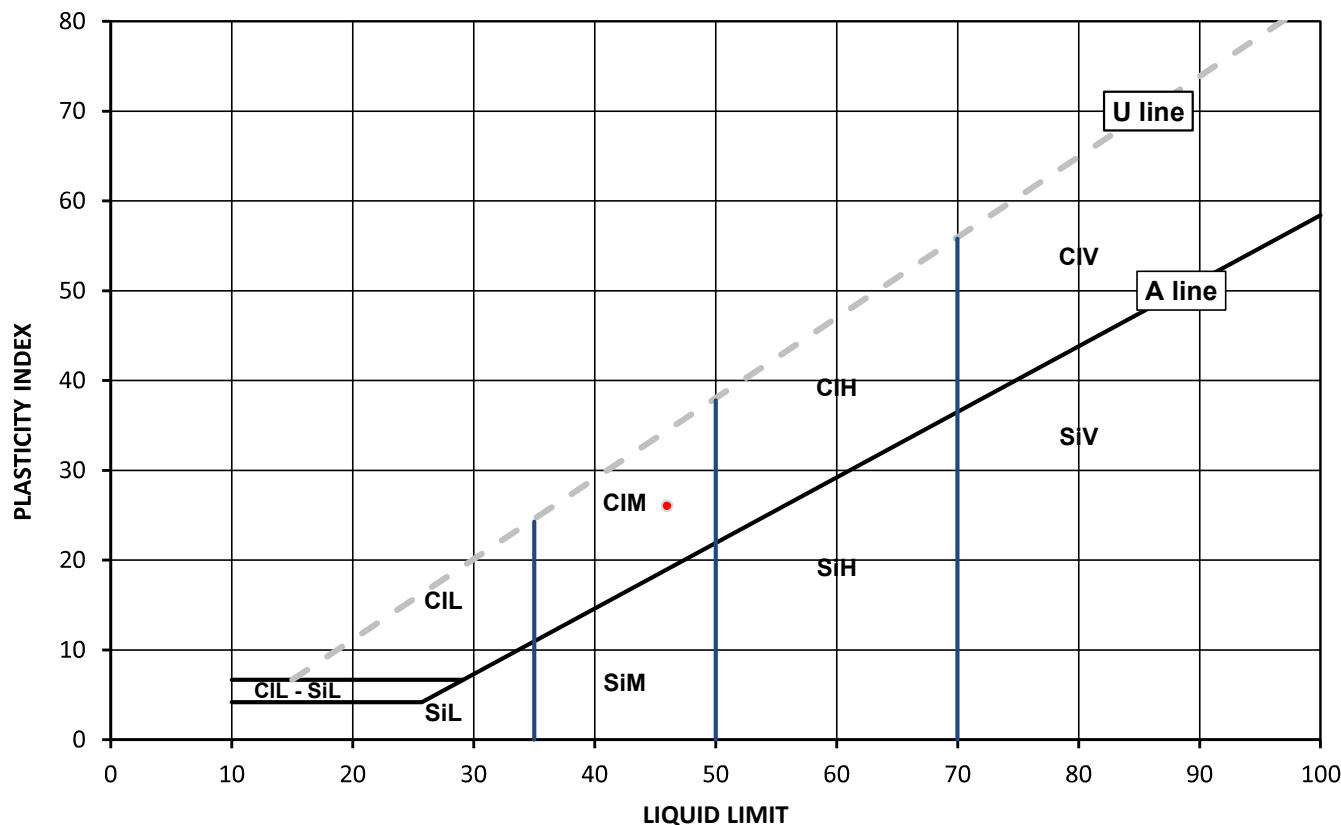
Depth Top [m]: 1.40

Depth Base [m]: 1.60

Sample Type: B

Sample Preparation: Tested after washing to remove >425 µm

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
17	46	20	26	89



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 24/05/2023

Date Received: 01/06/2023

Date Tested: 16/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2704501

Hole No.: BH08

Sample Reference: Not Given

Sample Description: Yellowish brown slightly gravelly slightly sandy CLAY

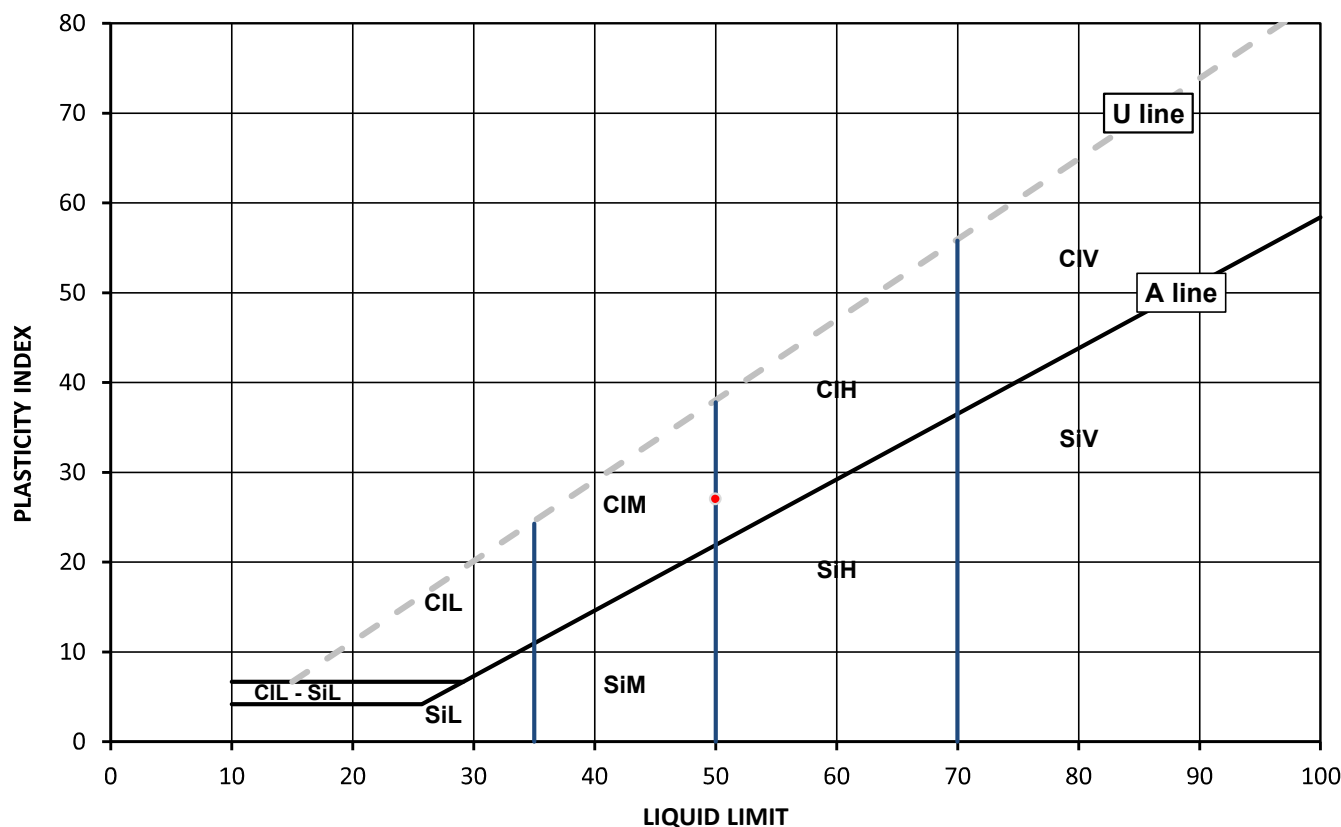
Depth Top [m]: 1.30

Depth Base [m]: 1.60

Sample Type: B

Sample Preparation: Tested after washing to remove >425 µm

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
19	50	23	27	93



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 25/05/2023

Date Received: 01/06/2023

Date Tested: 16/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2704502

Hole No.: BH10

Sample Reference: Not Given

Sample Description: Brown very sandy CLAY

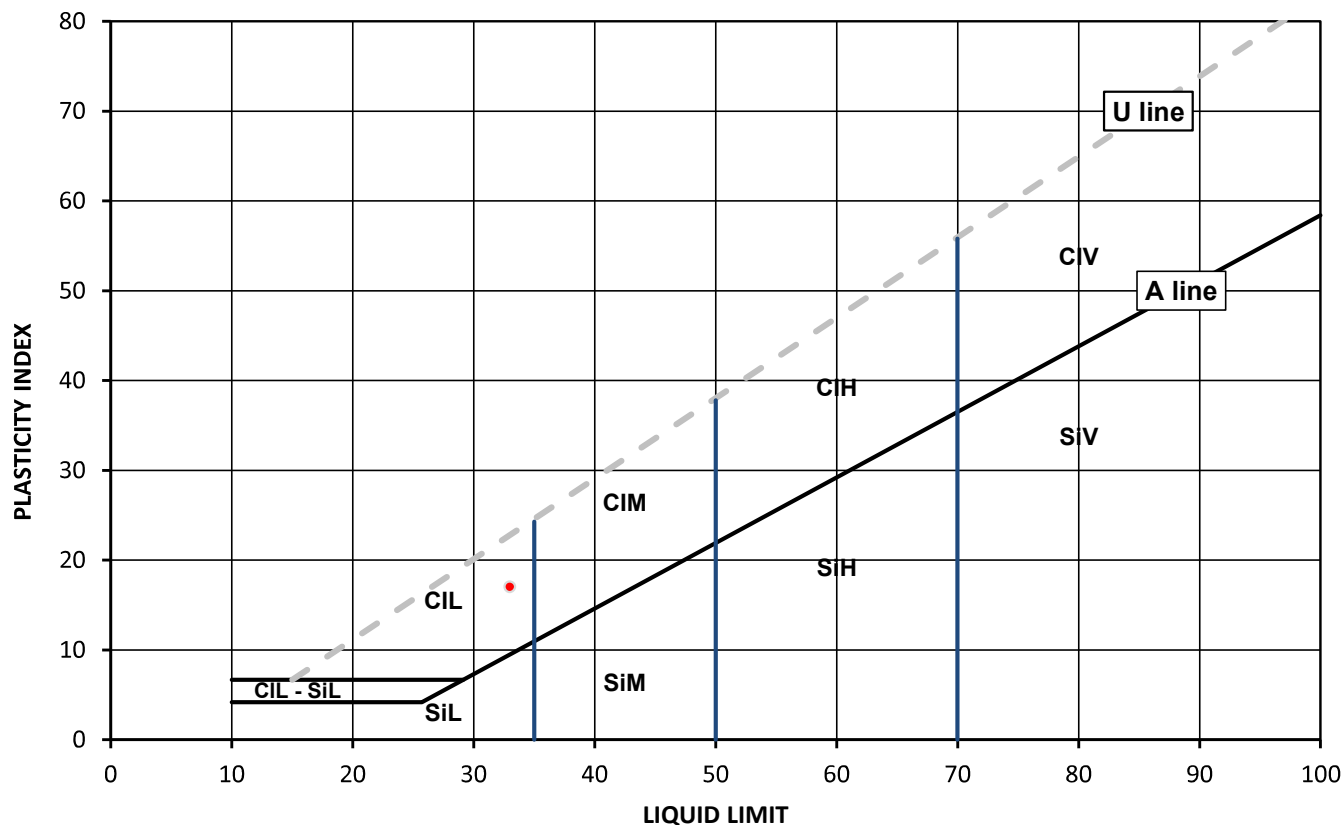
Depth Top [m]: 2.40

Depth Base [m]: 2.60

Sample Type: B

Sample Preparation: Tested in natural condition

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
17	33	16	17	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 24/05/2023

Date Received: 01/06/2023

Date Tested: 16/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2704503

Hole No.: BH11

Sample Reference: Not Given

Sample Description: Yellowish brown clayey SAND

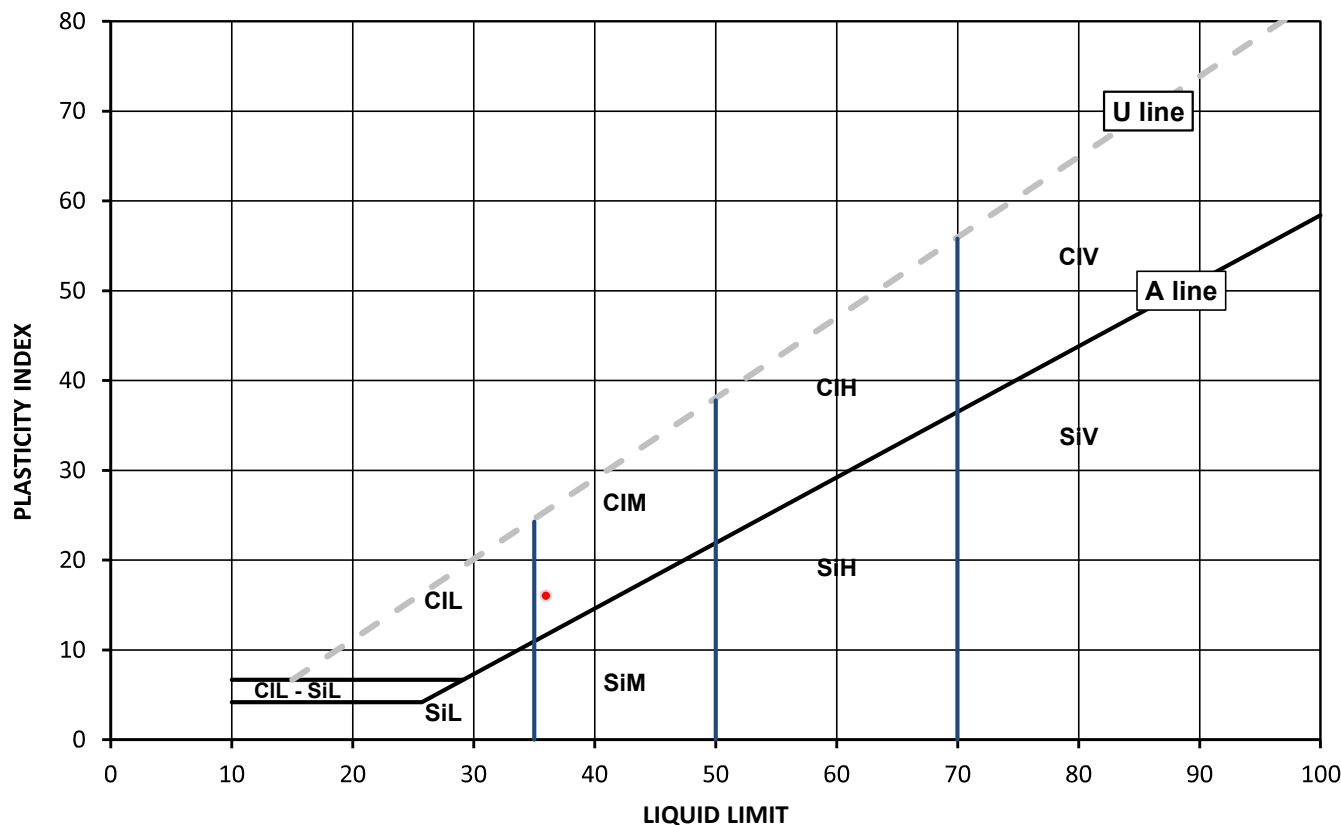
Depth Top [m]: 1.40

Depth Base [m]: 1.80

Sample Type: B

Sample Preparation: Tested in natural condition

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
23	36	20	16	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 24/05/2023

Date Received: 01/06/2023

Date Tested: 12/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2704504

Hole No.: BH12

Sample Reference: Not Given

Sample Description: Brown slightly gravelly sandy CLAY with fragments of chalk

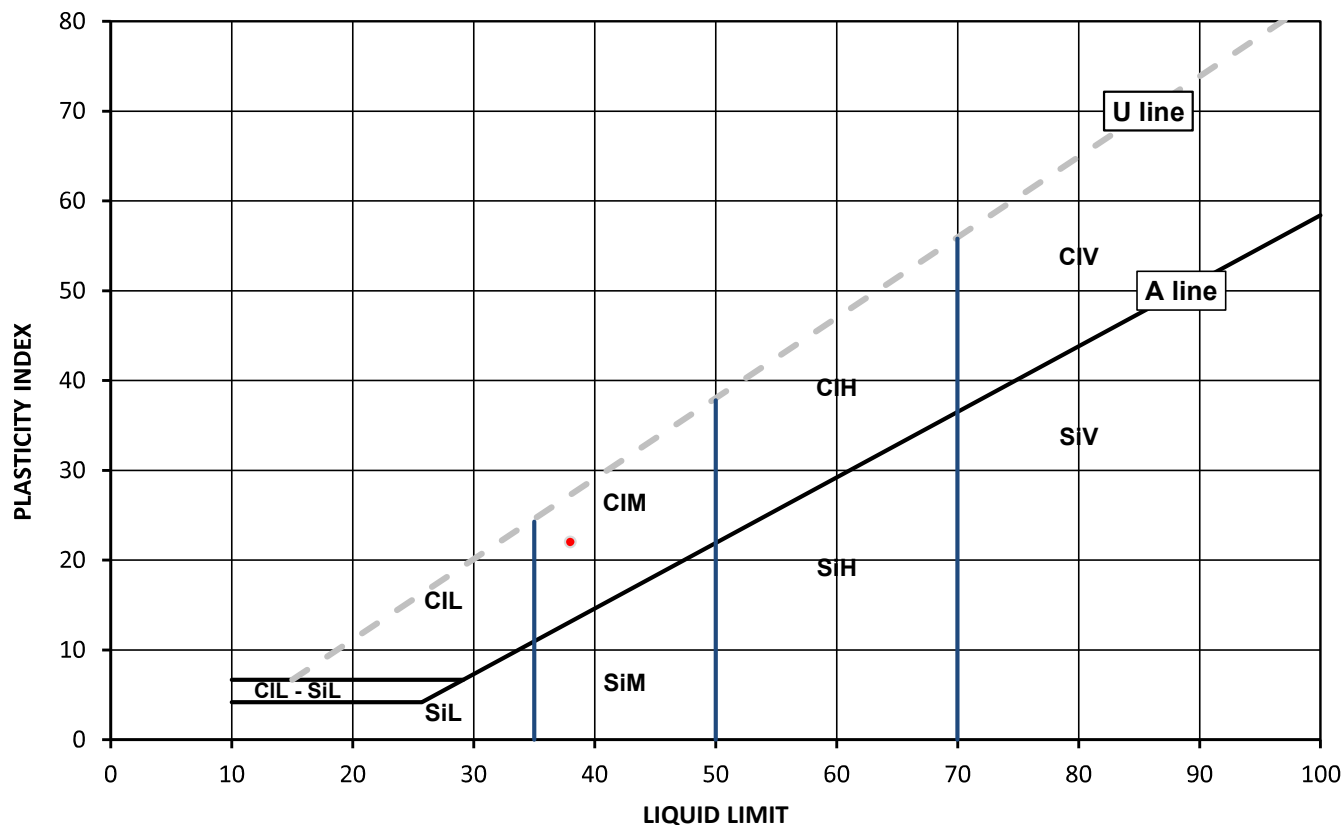
Depth Top [m]: 2.00

Depth Base [m]: 2.50

Sample Type: B

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
16	38	16	22	98



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

4041

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 31/05/2023

Date Received: 01/06/2023

Date Tested: 16/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2704507

Hole No.: TP35

Sample Reference: Not Given

Sample Description: Brown slightly gravelly sandy CLAY

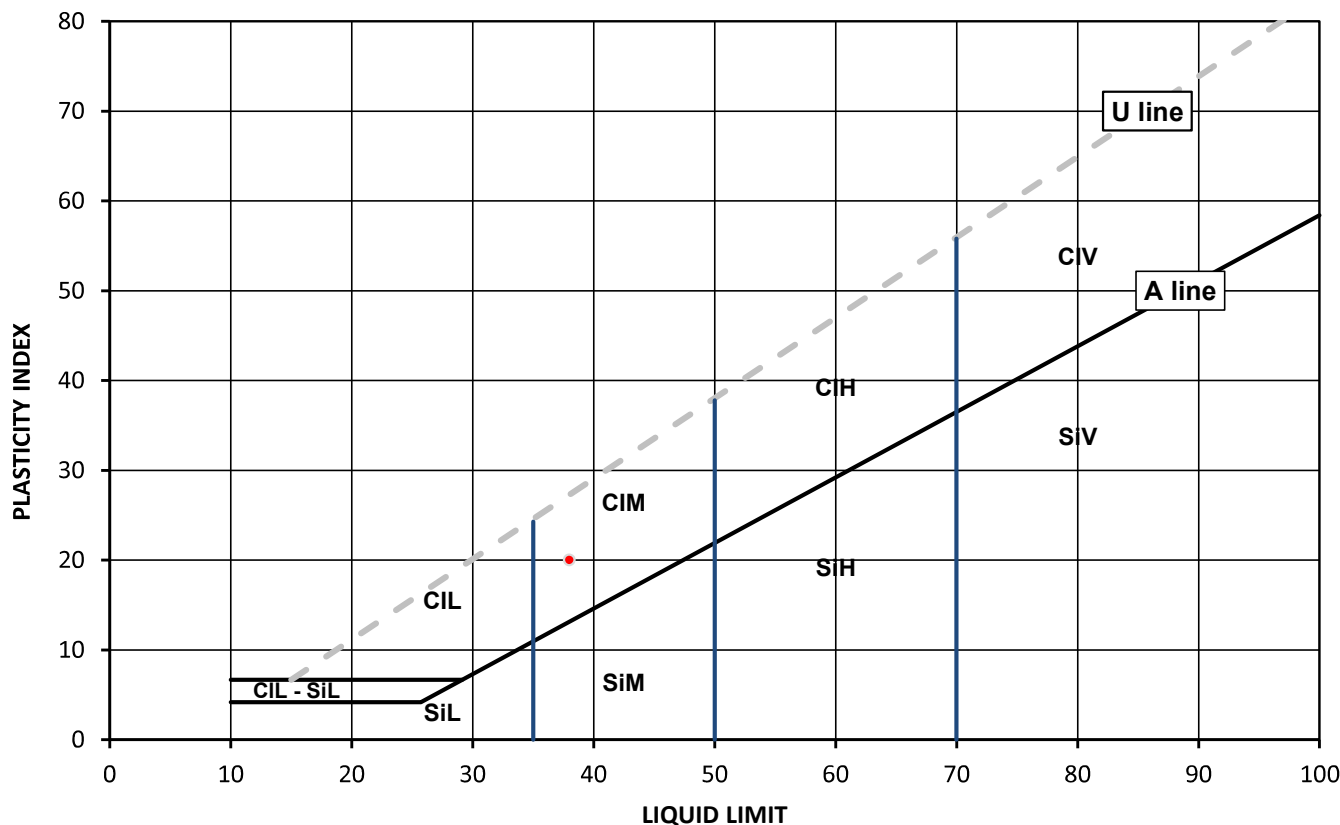
Depth Top [m]: 1.60

Depth Base [m]: Not Given

Sample Type: B

Sample Preparation: Tested after washing to remove >425 µm

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
14	38	18	20	82



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 31/05/2023

Date Received: 01/06/2023

Date Tested: 16/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2704508

Hole No.: TP45

Sample Reference: Not Given

Sample Description: Brown gravelly sandy CLAY

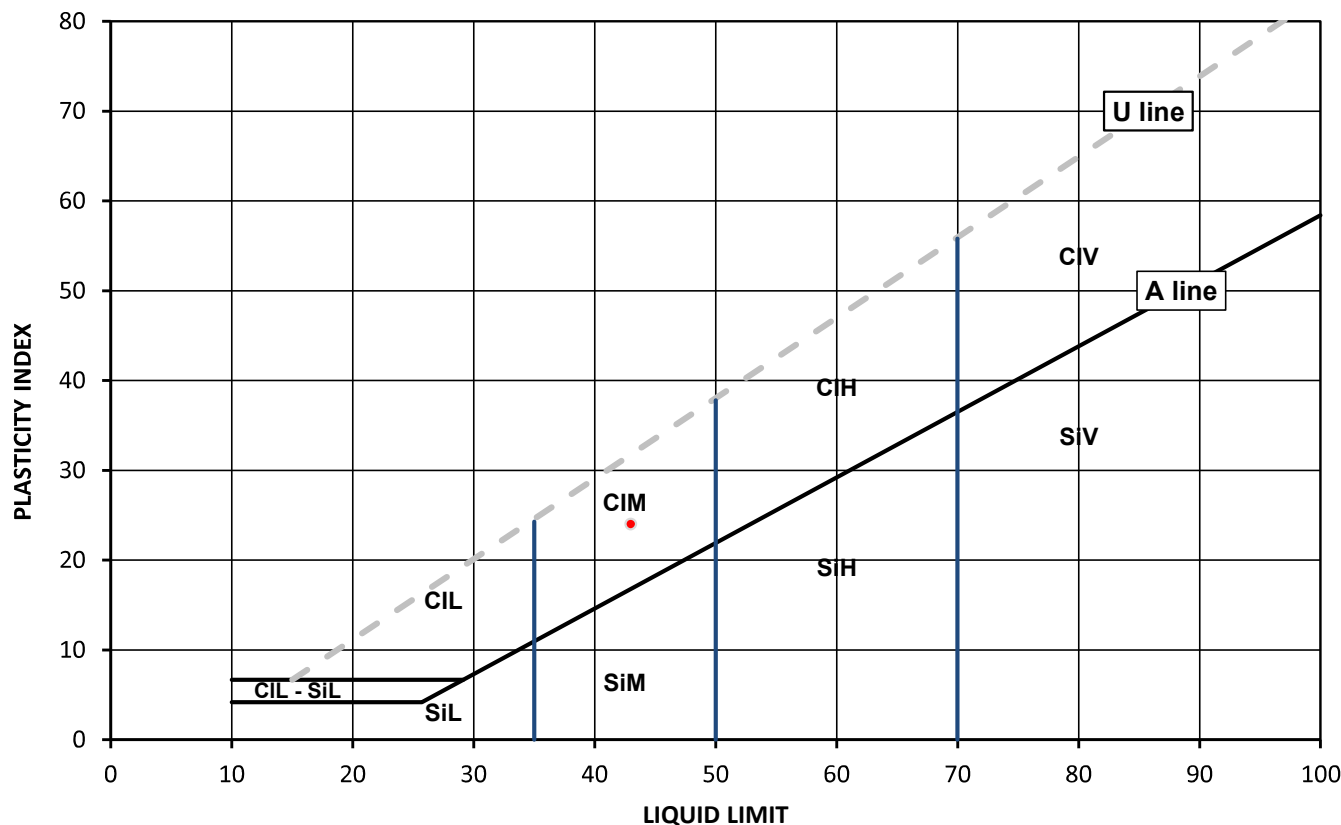
Depth Top [m]: 1.50

Depth Base [m]: Not Given

Sample Type: B

Sample Preparation: Tested after washing to remove >425 µm

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
18	43	19	24	59



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 31/05/2023

Date Received: 01/06/2023

Date Tested: 12/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2705562

Hole No.: TP25

Sample Reference: Not Given

Sample Description: Brown slightly sandy CLAY

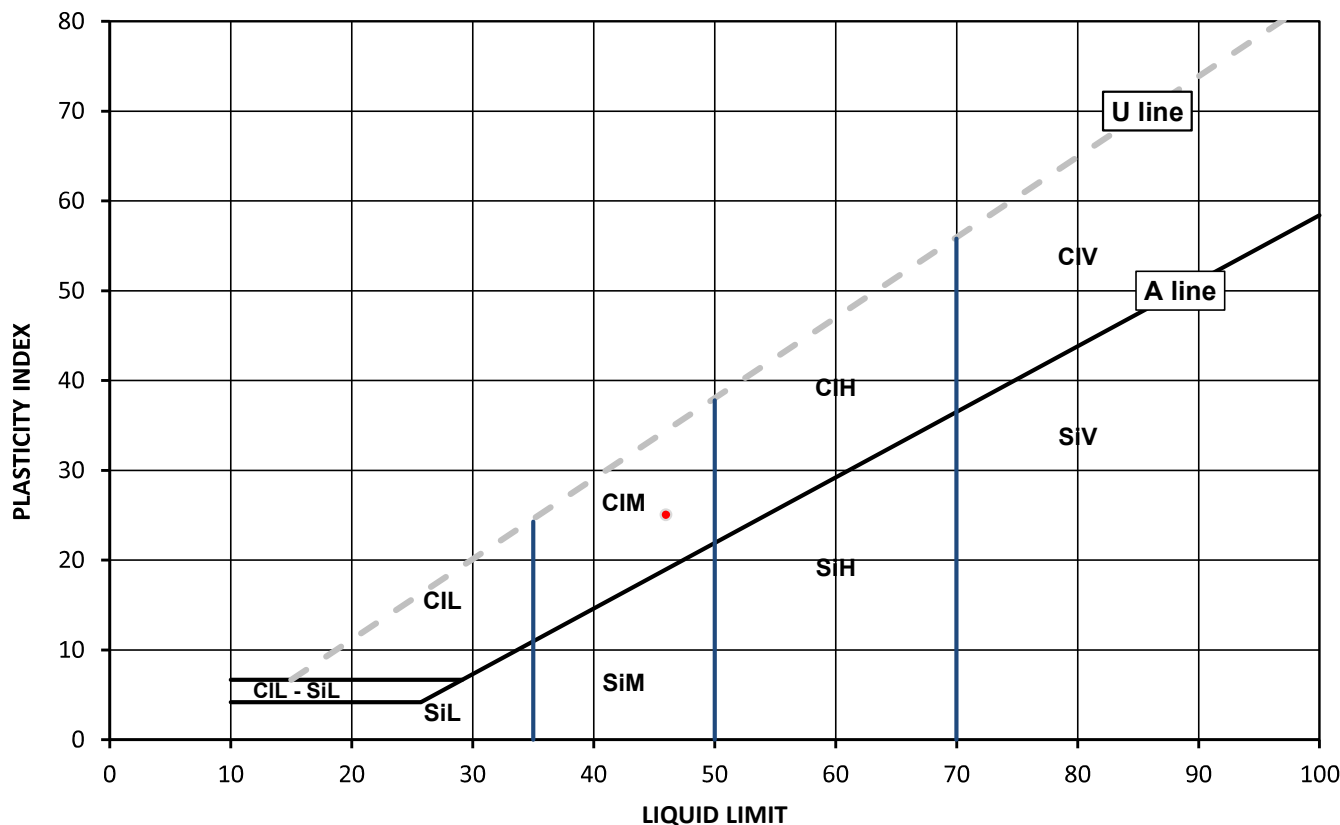
Depth Top [m]: 1.10

Depth Base [m]: Not Given

Sample Type: B

Sample Preparation: Tested in natural condition

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
25	46	21	25	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



4041

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

SUMMARY REPORT**SUMMARY OF CLASSIFICATION TEST RESULTS**

Tested in Accordance with:

Water Content by BS 1377-2:1990: Clause 3.2 Atterberg by BS 1377-2: 1990:
Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 24/05 - 25/05/2023

Date Received: 01/06/2002

Date Tested: 16/06/2023

Sampled By: Client - DP

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [W] %	Water Content BS EN ISO 17892-1 [W] %	Atterberg				Density			Total Porosity# %		
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3			
2704494	BH01	Not Given	3.20	3.60	B	Dark brown slightly gravelly slightly sandy CLAY	Atterberg 1 Point	15		98	49	21	28						
2704495	BH02	Not Given	1.50	1.80	B	Yellowish brown very sandy CLAY	Atterberg 1 Point	17		100	34	18	16						
2704496	BH03	Not Given	1.50	2.00	B	Brown slightly gravelly sandy CLAY	Atterberg 1 Point	14		98	38	17	21						
2704497	BH04	Not Given	1.40	1.70	B	Brown slightly gravelly sandy CLAY	Atterberg 1 Point	27		96	45	22	23						
2704498	BH05	Not Given	1.80	2.00	B	Dark brown sandy CLAY	Atterberg 1 Point	18		100	41	20	21						
2704499	BH06	Not Given	2.00	2.50	B	Brownish grey sandy CLAY	Atterberg 1 Point	17		100	39	18	21						
2704500	BH07	Not Given	1.40	1.60	B	Brown slightly gravelly slightly sandy CLAY	Atterberg 1 Point	17		89	46	20	26						
2704501	BH08	Not Given	1.30	1.60	B	Yellowish brown slightly gravelly slightly sandy CLAY	Atterberg 1 Point	19		93	50	23	27						
2704502	BH10	Not Given	2.40	2.60	B	Brown very sandy CLAY	Atterberg 1 Point	17		100	33	16	17						
2704503	BH11	Not Given	1.40	1.80	B	Yellowish brown clayey SAND	Atterberg 1 Point	23		100	36	20	16						

Note: # Non accredited; NP - Non plastic

Comments:

Signed:

*Katarzyna Koziel*Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



4041

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

Water Content by BS 1377-2:1990: Clause 3.2
Atterberg by BS 1377-2: 1990:
Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 24/05 - 31/05/2023

Date Received: 01/06/2002

Date Tested: 12/06 - 16/06/2023

Sampled By: Client - DP

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [W] %	Water Content BS EN ISO 17892-1 [W] %	Atterberg				Density			Total Porosity# %		
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um %	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3			
2704504	BH12	Not Given	2.00	2.50	B	Brown slightly gravelly sandy CLAY with fragments of chalk	Atterberg 1 Point	16		98	38	16	22						
2704507	TP35	Not Given	1.60	Not Given	B	Brown slightly gravelly sandy CLAY	Atterberg 1 Point	14		82	38	18	20						
2704508	TP45	Not Given	1.50	Not Given	B	Brown gravelly sandy CLAY	Atterberg 1 Point	18		59	43	19	24						
2705562	TP25	Not Given	1.10	Not Given	B	Brown slightly sandy CLAY	Atterberg 1 Point	25		100	46	21	25						

Note: # Non accredited; NP - Non plastic

Comments:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



4041

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 24/05 - 25/05/2023

Date Received: 01/06/2002

Date Tested: 16/06/2023

Sampled By: Client - DP

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2704494	BH01	Not Given	3.20	3.60	B	Dark brown slightly gravelly slightly sandy CLAY		15	Sample was quartered, oven dried at 108.7 °C			
2704495	BH02	Not Given	1.50	1.80	B	Yellowish brown very sandy CLAY		17	Sample was quartered, oven dried at 108.7 °C			
2704496	BH03	Not Given	1.50	2.00	B	Brown slightly gravelly sandy CLAY		14	Sample was quartered, oven dried at 108.7 °C			
2704497	BH04	Not Given	1.40	1.70	B	Brown slightly gravelly sandy CLAY		27	Sample was quartered, oven dried at 107.6 °C			
2704498	BH05	Not Given	1.80	2.00	B	Dark brown sandy CLAY		18	Sample was quartered, oven dried at 108.7 °C			
2704499	BH06	Not Given	2.00	2.50	B	Brownish grey sandy CLAY		17	Sample was quartered, oven dried at 108.7 °C			
2704500	BH07	Not Given	1.40	1.60	B	Brown slightly gravelly slightly sandy CLAY		17	Sample was quartered, oven dried at 107.6 °C			
2704501	BH08	Not Given	1.30	1.60	B	Yellowish brown slightly gravelly slightly sandy CLAY		19	Sample was quartered, oven dried at 106.1 °C			
2704502	BH10	Not Given	2.40	2.60	B	Brown very sandy CLAY		17	Sample was quartered, oven dried at 106.1 °C			
2704503	BH11	Not Given	1.40	1.80	B	Yellowish brown clayey SAND		23	Sample was quartered, oven dried at 107.4 °C			

Comments:

Signed:

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



4041

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 24/05 - 31/05/2023

Date Received: 01/06/2002

Date Tested: 12/06 - 16/06/2023

Sampled By: Client - DP

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2704504	BH12	Not Given	2.00	2.50	B	Brown slightly gravelly sandy CLAY with fragments of chalk		16	Sample was quartered, oven dried at 109 °C			
2704507	TP35	Not Given	1.60	Not Given	B	Brown slightly gravelly sandy CLAY		14	Sample was quartered, oven dried at 107.6 °C			
2704508	TP45	Not Given	1.50	Not Given	B	Brown gravelly sandy CLAY		18	Sample was quartered, oven dried at 107.6 °C			
2705562	TP25	Not Given	1.10	Not Given	B	Brown slightly sandy CLAY		25	Sample was quartered, oven dried at 109 °C			

Comments:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 24/05/2023

Date Received: 01/06/2023

Date Tested: 16/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2704503

Hole No.: BH11

Sample Reference: Not Given

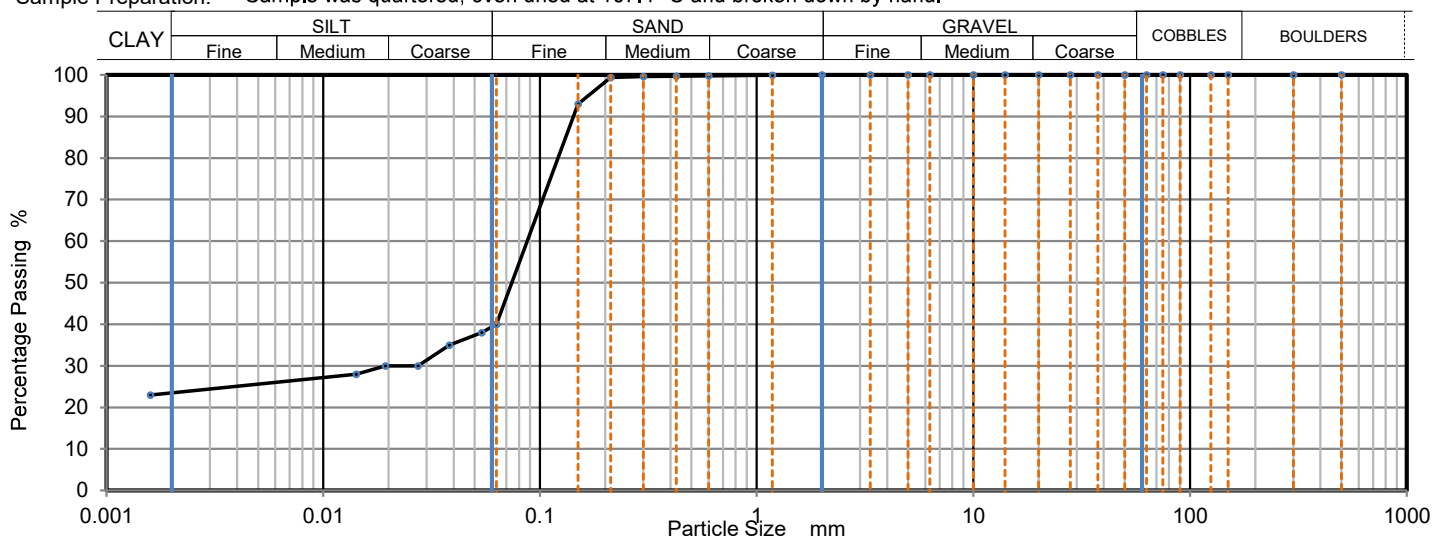
Sample Description: Yellowish brown clayey SAND

Sample Preparation: Sample was quartered, oven dried at 107.4 °C and broken down by hand.

Depth Top [m]: 1.40

Depth Base [m]: 1.80

Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100	0.0630	40
300	100	0.0537	38
150	100	0.0382	35
125	100	0.0273	30
90	100	0.0193	30
75	100	0.0142	28
63	100	0.0106	23
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100		
0.425	100		
0.3	100		
0.212	99		
0.15	93		
0.063	40		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	60
Silt	17
Clay	23

Grading Analysis		
D100	mm	2
D60	mm	0.0873
D30	mm	0.0191
D10	mm	
Uniformity Coefficient		> 55
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clauses 9.2 and 9.5

Remarks:

Signed:

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 31/05/2023

Date Received: 01/06/2023

Date Tested: 12/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2704505

Hole No.: TP09

Sample Reference: Not Given

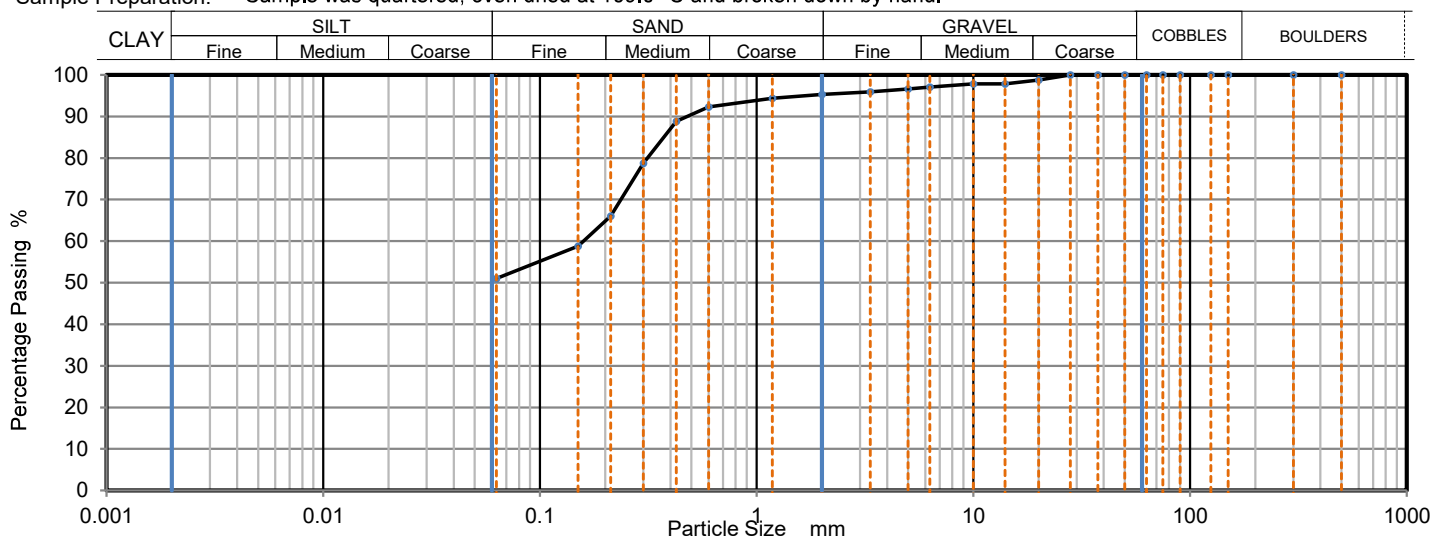
Sample Description: Brown sandy CLAY

Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 1.00

Depth Base [m]: Not Given

Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	99		
14	98		
10	98		
6.3	97		
5	97		
3.35	96		
2	95		
1.18	94		
0.6	92		
0.425	89		
0.3	79		
0.212	66		
0.15	59		
0.063	52		

Sample Proportions	% dry mass
Very coarse	0
Gravel	5
Sand	44
Fines <0.063mm	51

Grading Analysis	
D100	mm
D60	mm
D30	mm
D10	mm
Uniformity Coefficient	> 2.5
Curvature Coefficient	

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-37834-1

Date Sampled: 25/05/2023

Date Received: 01/06/2023

Date Tested: 12/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2704506

Hole No.: TP31

Sample Reference: Not Given

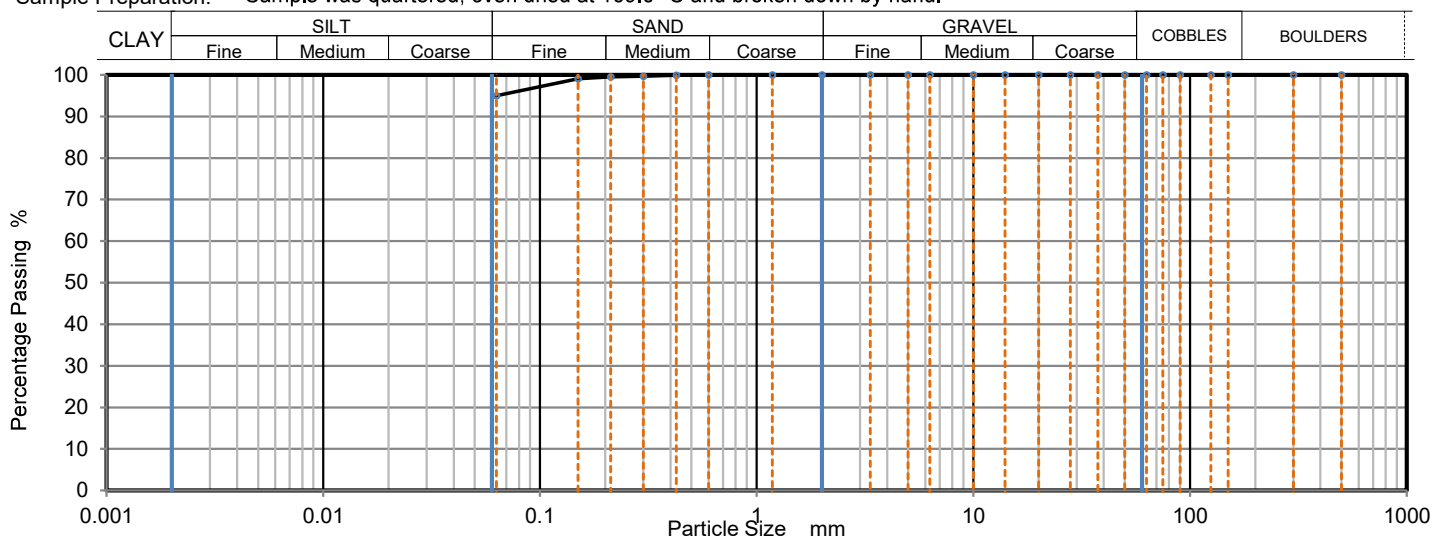
Sample Description: Brownish grey CLAY

Sample Preparation: Sample was quartered, oven dried at 109.0 °C and broken down by hand.

Depth Top [m]: 3.10

Depth Base [m]: Not Given

Sample Type: B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
500	100		
300	100		
150	100		
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	100		
5	100		
3.35	100		
2	100		
1.18	100		
0.6	100		
0.425	100		
0.3	100		
0.212	100		
0.15	99		
0.063	95		

Sample Proportions	% dry mass
Very coarse	0
Gravel	0
Sand	5
Fines <0.063mm	95

Grading Analysis		
D100	mm	1.18
D60	mm	
D30	mm	
D10	mm	
Uniformity Coefficient		N/A
Curvature Coefficient		

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Client: Travis Baker Geo-Environmental Limited
Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY
Contact: Daniel Potts
Site Address: Bullfurlong Lane, Burbage

Client Reference: 23046
Job Number: 23-40268-1
Date Sampled: Not Given
Date Received: 14/06/2023
Date Tested: 30/06/2023
Sampled By: Client - DP

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

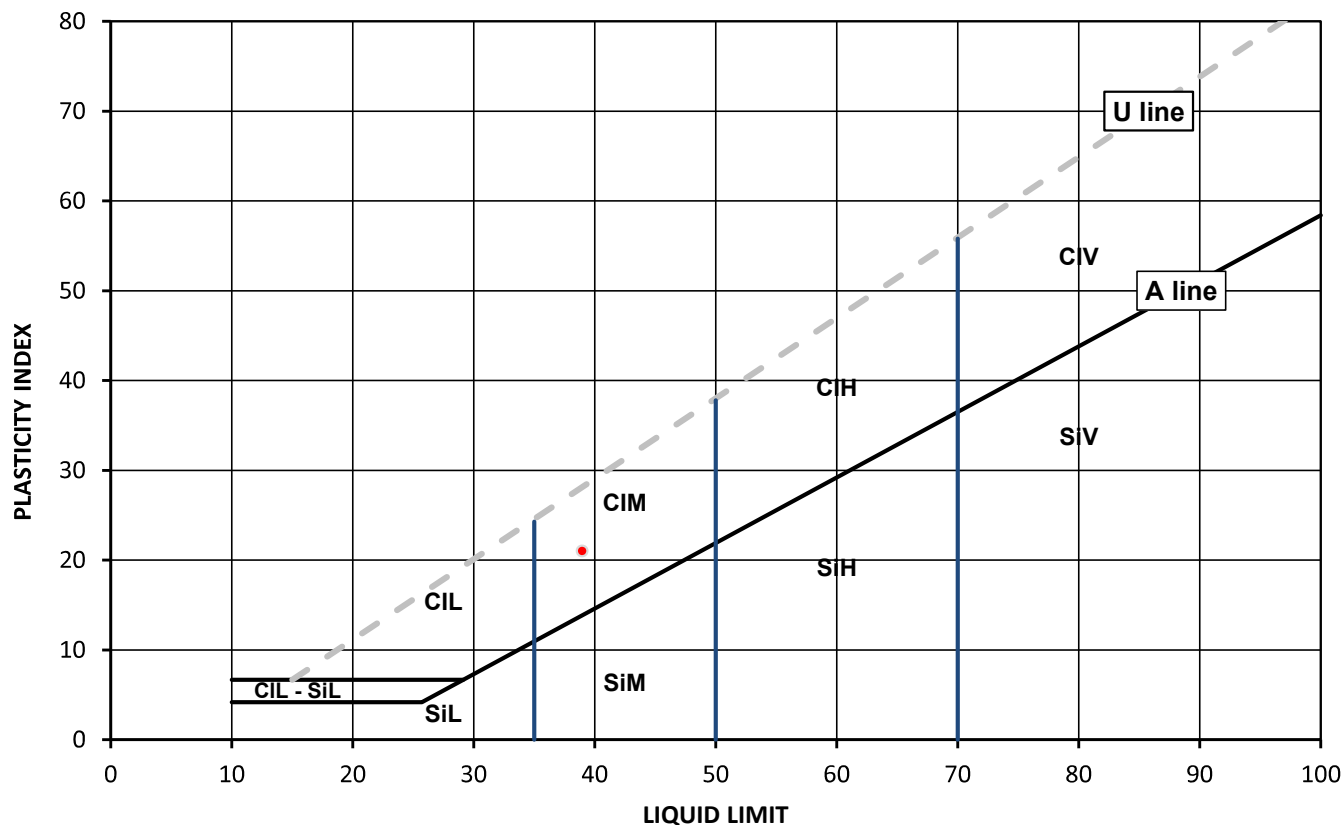
Test Results:

Laboratory Reference: 2720094
Hole No.: BH02
Sample Reference: Not Given
Sample Description: Brown slightly gravelly sandy CLAY

Depth Top [m]: 7.60
Depth Base [m]: 8.00
Sample Type: B

Sample Preparation: Tested after >425 µm removed by hand

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
28	39	18	21	98



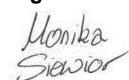
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



Monika Siewior
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-40268-1

Date Sampled: Not Given

Date Received: 14/06/2023

Date Tested: 30/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2720095

Hole No.: BH02

Sample Reference: Not Given

Sample Description: Brown very sandy CLAY

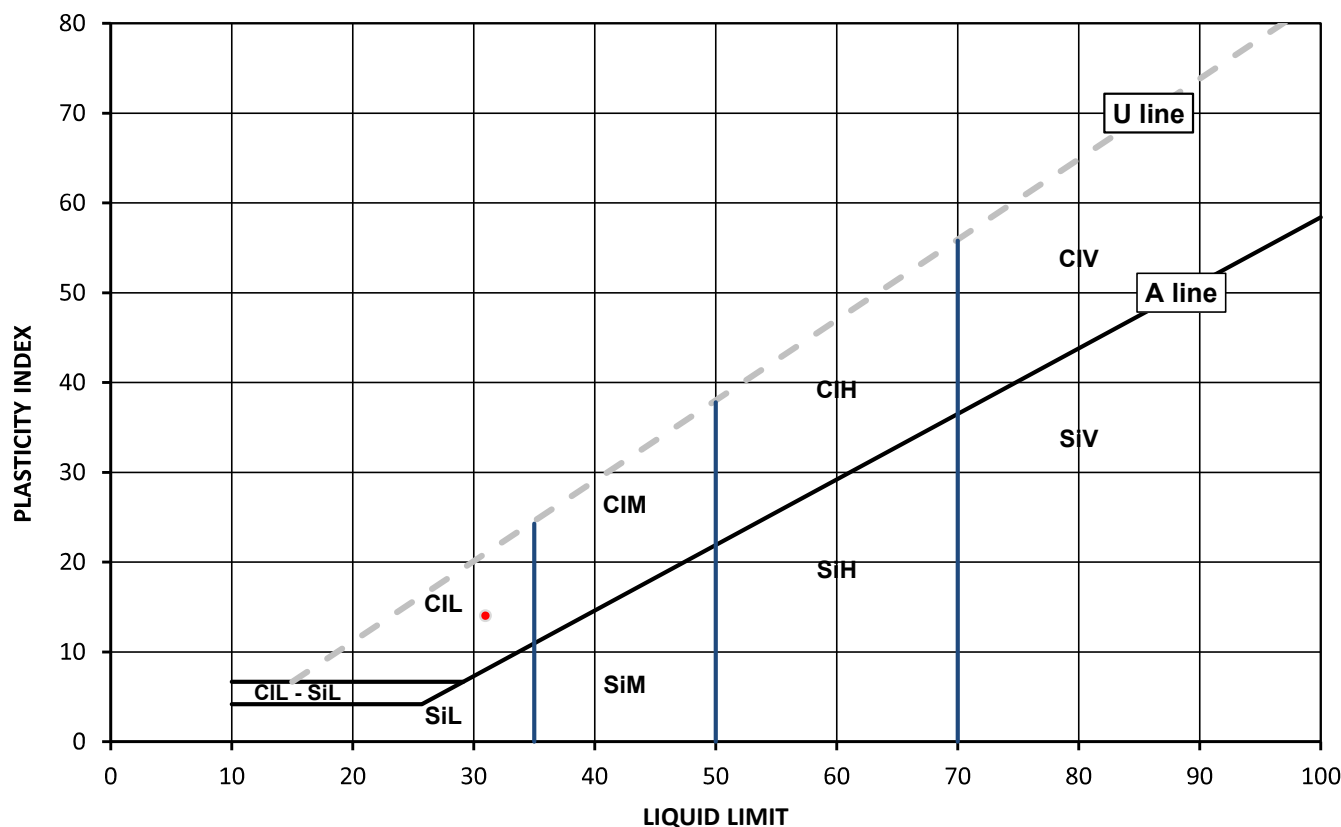
Depth Top [m]: 11.00

Depth Base [m]: 11.50

Sample Type: B

Sample Preparation: Tested in natural condition

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
27	31	17	14	100



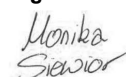
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



Monika Siewior
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

4041

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-40268-1

Date Sampled: Not Given

Date Received: 14/06/2023

Date Tested: 30/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2720097

Hole No.: BH03

Sample Reference: Not Given

Sample Description: Brown sandy CLAY

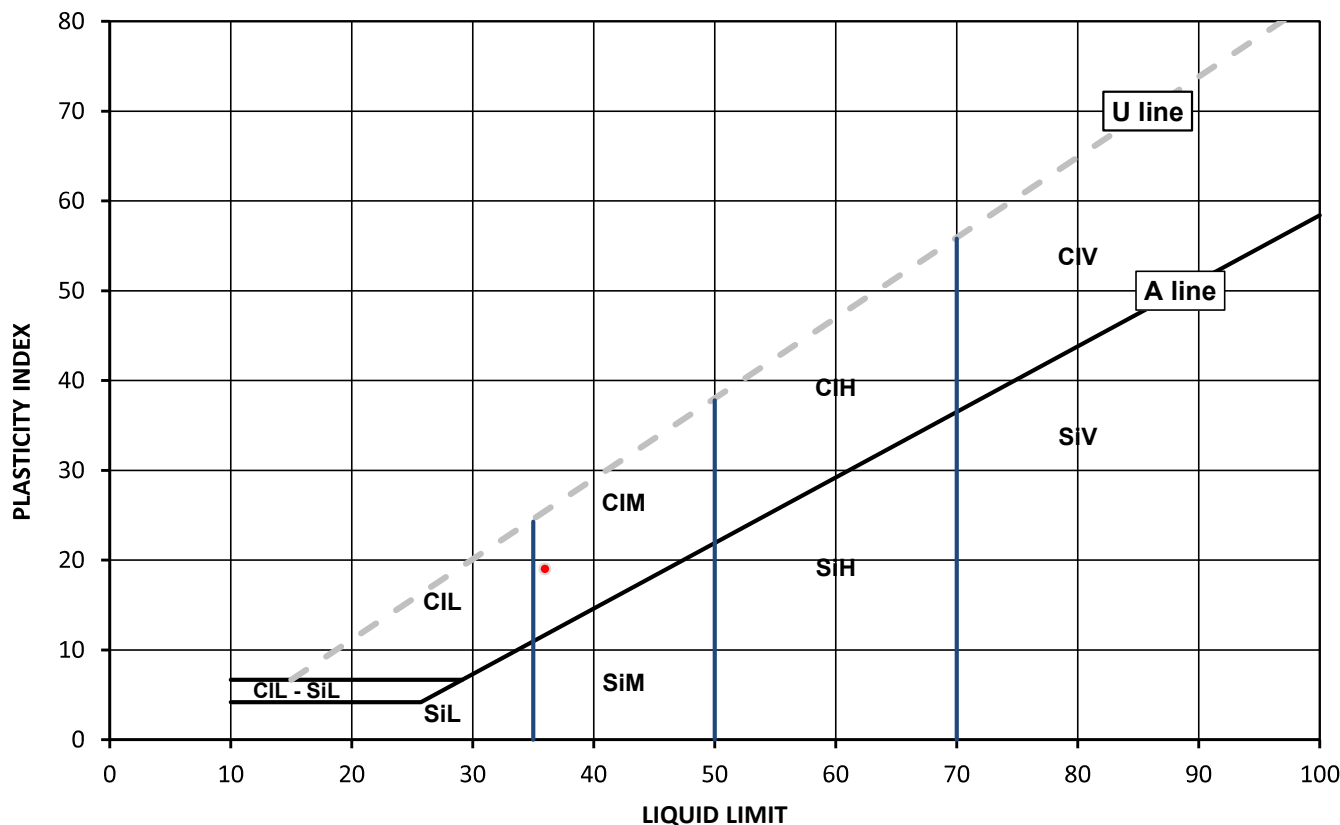
Depth Top [m]: 7.00

Depth Base [m]: 7.50

Sample Type: B

Sample Preparation: Tested in natural condition

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
25	36	17	19	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Monika Siewior

Monika Siewior
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Page 1 of 1

Date Reported: 04/07/2023

GF 232.12

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Client: Travis Baker Geo-Environmental Limited
Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY
Contact: Daniel Potts
Site Address: Bullfurlong Lane, Burbage

Client Reference: 23046
Job Number: 23-40268-1
Date Sampled: Not Given
Date Received: 14/06/2023
Date Tested: 29/06/2023
Sampled By: Client - DP

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

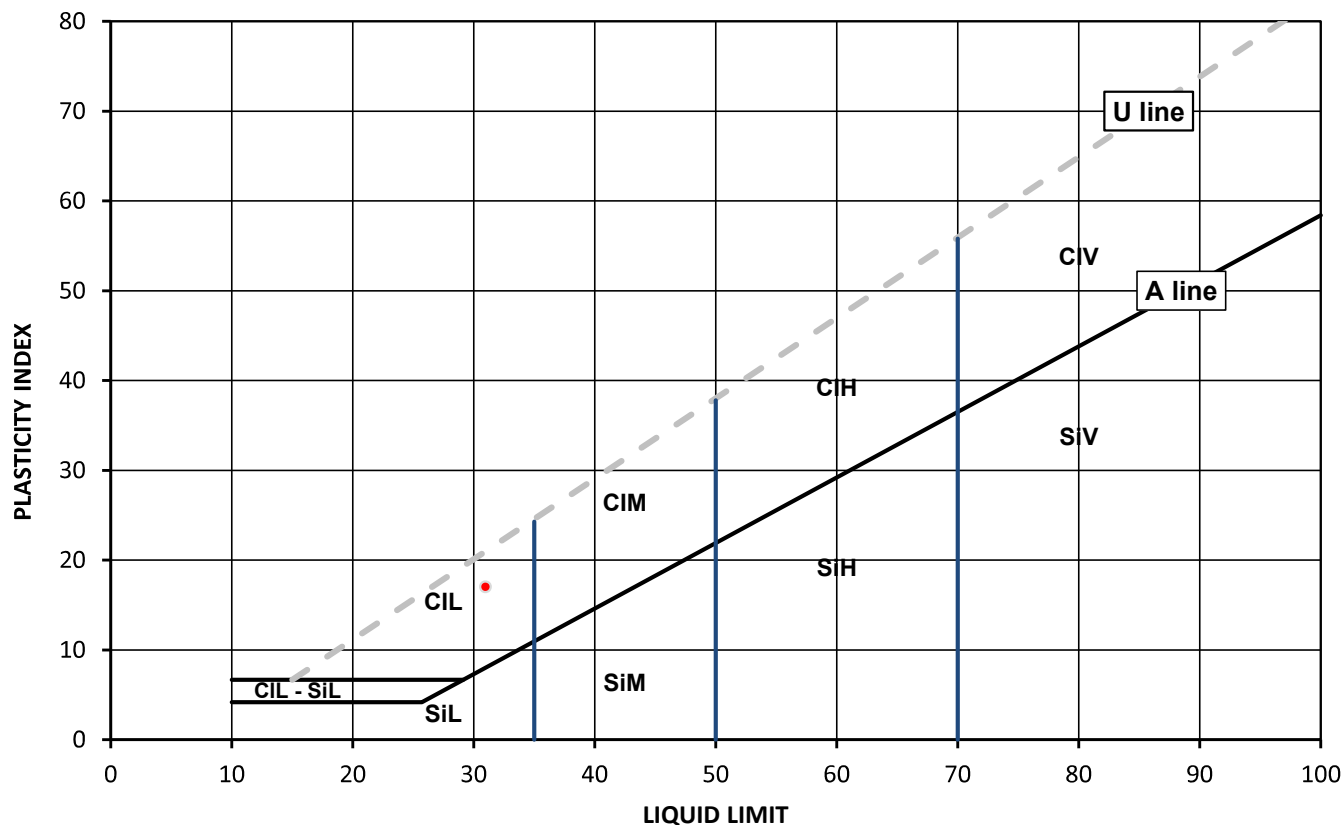
Test Results:

Laboratory Reference: 2720098
Hole No.: BH03
Sample Reference: Not Given
Sample Description: Brown slightly gravelly very sandy CLAY

Depth Top [m]: 13.00
Depth Base [m]: 13.20
Sample Type: B

Sample Preparation: Tested after washing to remove >425 µm

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
13	31	14	17	92



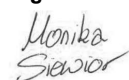
Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:



Monika Siewior
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



4041

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

Water Content by BS 1377-2:1990: Clause 3.2 Atterberg by BS 1377-2: 1990:
Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Environmental Science

Client Reference: 23046

Job Number: 23-40268-1

Date Sampled: Not Given

Date Received: 14/06/2023

Date Tested: 29/06 - 30/06/2023

Sampled By: Client - DP

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [W] %	Water Content BS EN ISO 17892-1 [W] %	Atterberg				Density			Total Porosity# %		
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3			
2720094	BH02	Not Given	7.60	8.00	B	Brown slightly gravelly sandy CLAY	Atterberg 1 Point	28		98	39	18	21						
2720095	BH02	Not Given	11.00	11.50	B	Brown very sandy CLAY	Atterberg 1 Point	27		100	31	17	14						
2720097	BH03	Not Given	7.00	7.50	B	Brown sandy CLAY	Atterberg 1 Point	25		100	36	17	19						
2720098	BH03	Not Given	13.00	13.20	B	Brown slightly gravelly very sandy CLAY	Atterberg 1 Point	13		92	31	14	17						

Note: # Non accredited; NP - Non plastic

Comments:

Signed:

*Monika Siewior*Monika Siewior
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



4041

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

Client Reference: 23046

Job Number: 23-40268-1

Date Sampled: Not Given

Date Received: 14/06/2023

Date Tested: 29/06 - 30/06/2023

Sampled By: Client - DP

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2720094	BH02	Not Given	7.60	8.00	B	Brown slightly gravelly sandy CLAY		28	Sample was quartered, oven dried at 109 °C			
2720095	BH02	Not Given	11.00	11.50	B	Brown very sandy CLAY		27	Sample was quartered, oven dried at 109 °C			
2720097	BH03	Not Given	7.00	7.50	B	Brown sandy CLAY		25	Sample was quartered, oven dried at 109 °C			
2720098	BH03	Not Given	13.00	13.20	B	Brown slightly gravelly very sandy CLAY		13	Sample was quartered, oven dried at 106.7 °C			

Comments:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed:

Monika Siewior

Monika Siewior
Reporting Specialist
for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-40268-1

Date Sampled: Not Given

Date Received: 14/06/2023

Date Tested: 30/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2720092

Hole No.: BH02

Sample Reference: Not Given

Sample Description: Brown silty CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

Depth Top [m]: 3.00

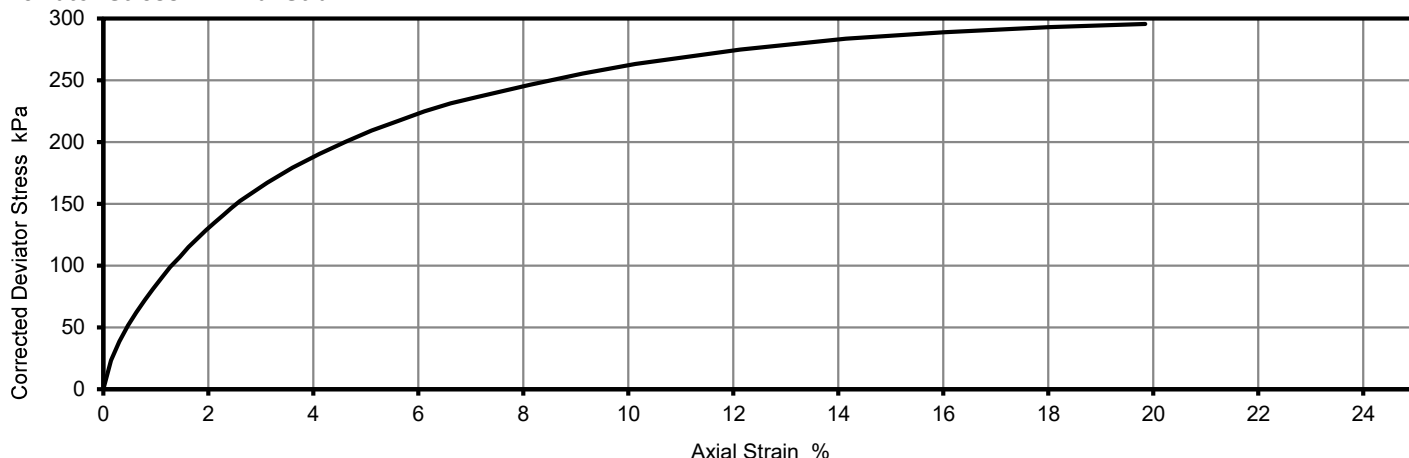
Depth Base [m]: 3.50

Sample Type: U

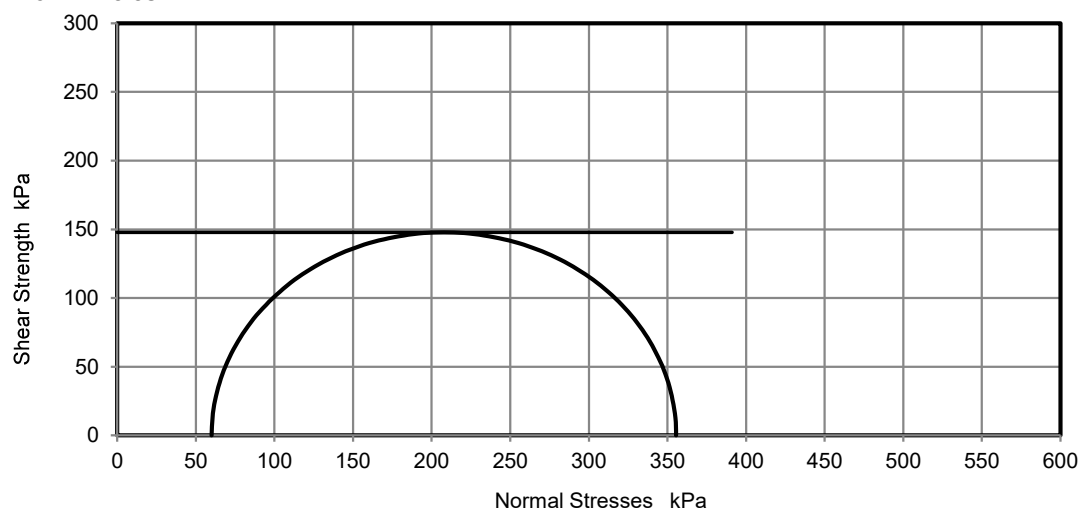
Test Number	1
Length	200.11 mm
Diameter	103.00 mm
Bulk Density	2.24 Mg/m ³
Moisture Content	11 %
Dry Density	2.02 Mg/m ³
Membrane Correction	1.00 kPa

Rate of Strain	2.00 %/min
Cell Pressure	60 kPa
Axial Strain at failure	19.8 %
Deviator Stress, ($\sigma_1 - \sigma_3$) _f	296 kPa
Undrained Shear Strength, c_u	148 kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Mode of Failure	Compound
Latex membrane thickness	0.27 mm

Deviator Stress v Axial Strain



Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377.
This is provided for information only.

Remarks:

Signed:

Monika Siewior

Monika Siewior
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

4041

Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-40268-1

Date Sampled: Not Given

Date Received: 14/06/2023

Date Tested: 30/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2720093

Hole No.: BH02

Sample Reference: Not Given

Sample Description: Dark brown gravelly CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

Depth Top [m]: 5.00

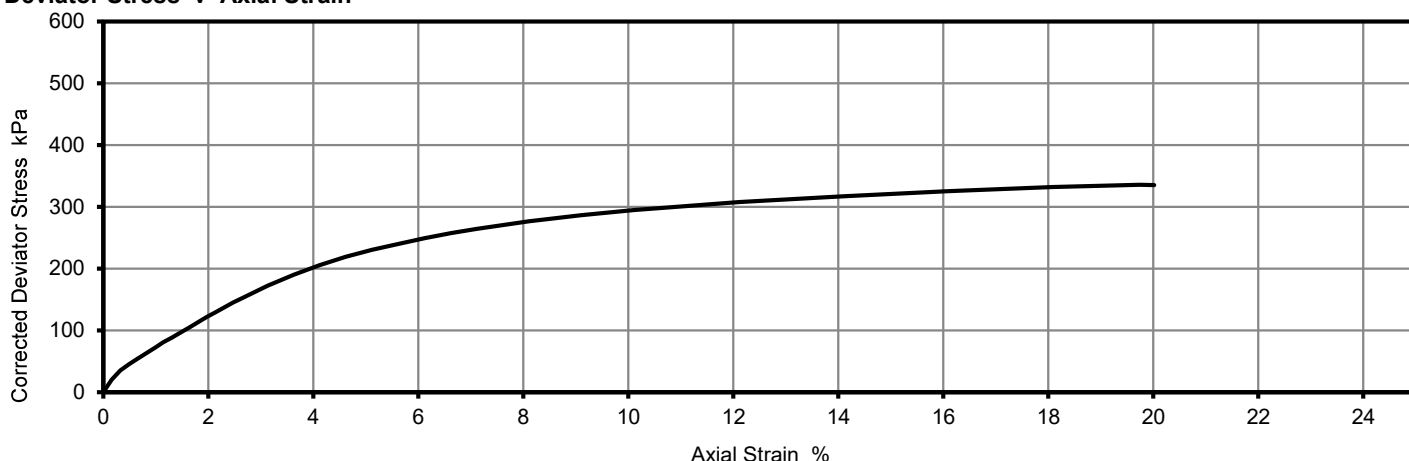
Depth Base [m]: 5.50

Sample Type: U

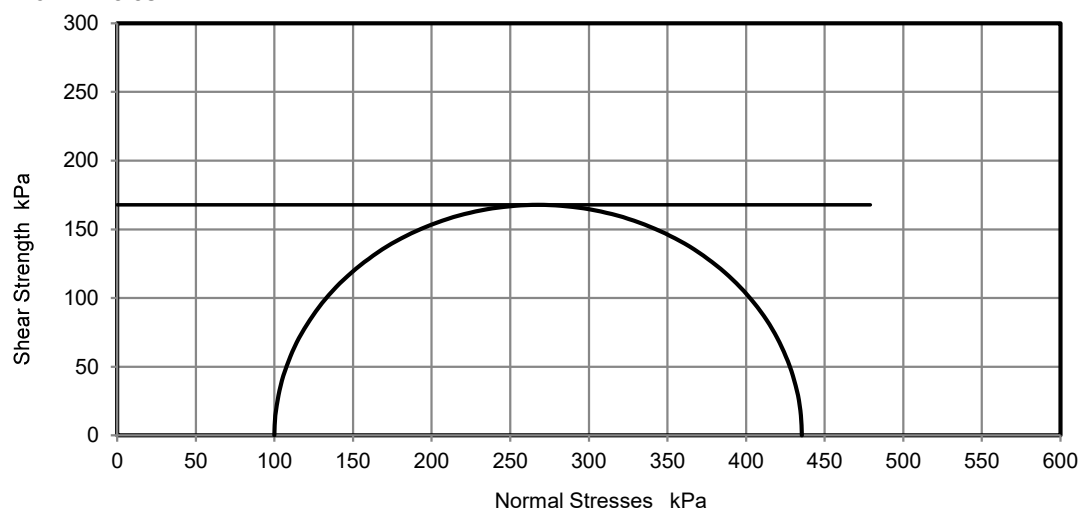
Test Number	1
Length	199.60 mm
Diameter	102.65 mm
Bulk Density	2.24 Mg/m ³
Moisture Content	13 %
Dry Density	1.98 Mg/m ³
Membrane Correction	1.04 kPa

Rate of Strain	2.00 %/min
Cell Pressure	100 kPa
Axial Strain at failure	19.7 %
Deviator Stress, ($\sigma_1 - \sigma_3$) _f	336 kPa
Undrained Shear Strength, c_u	168 kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Mode of Failure	Compound
Latex membrane thickness	0.28 mm

Deviator Stress v Axial Strain



Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377.
This is provided for information only.

Remarks:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed:

Monika Siewior

Page 1 of 1

Monika Siewior
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Date Reported: 04/07/2023

GF 184.13

4041

Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow 39, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-40268-1

Date Sampled: Not Given

Date Received: 14/06/2023

Date Tested: 30/06/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2720096

Hole No.: BH03

Sample Reference: Not Given

Sample Description: Brown silty CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

Depth Top [m]: 6.00

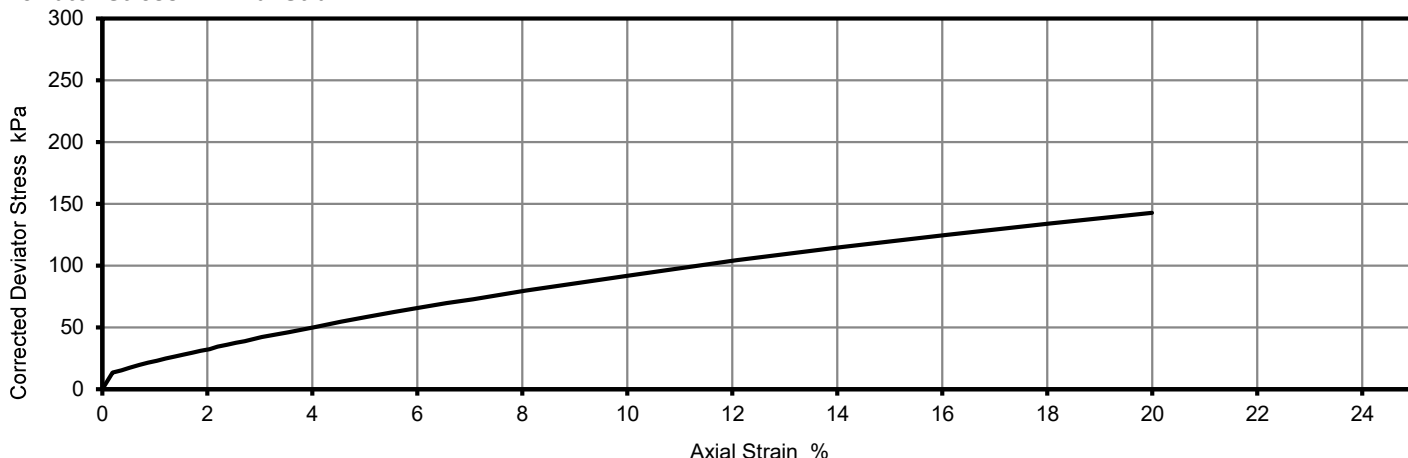
Depth Base [m]: 6.50

Sample Type: U

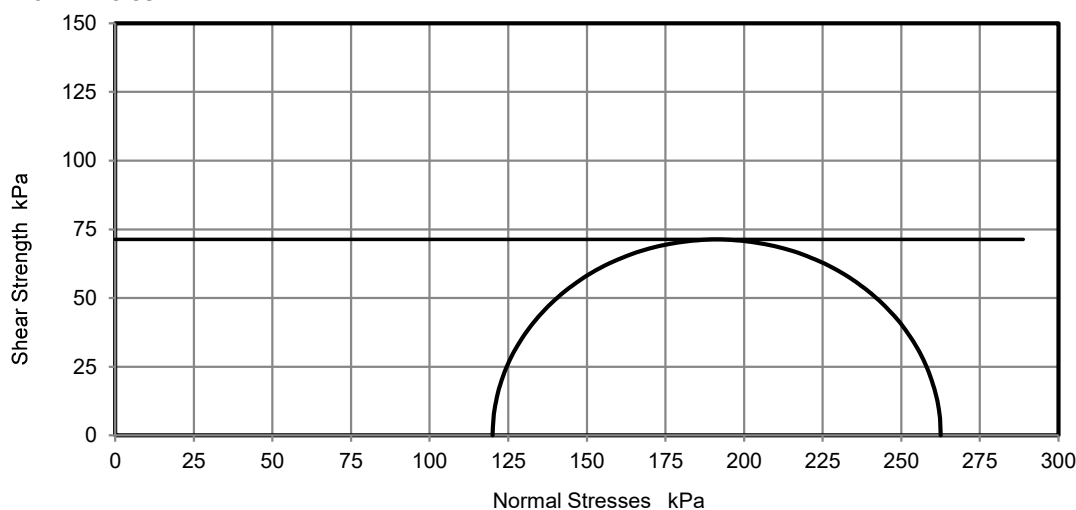
Test Number	1
Length	200.00 mm
Diameter	102.15 mm
Bulk Density	2.17 Mg/m ³
Moisture Content	15 %
Dry Density	1.89 Mg/m ³
Membrane Correction	1.05 kPa

Rate of Strain	2.00 %/min
Cell Pressure	120 kPa
Axial Strain at failure	20.0 %
Deviator Stress, ($\sigma_1 - \sigma_3$) _f	143 kPa
Undrained Shear Strength, c_u	71 kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Mode of Failure	Compound
Latex membrane thickness	0.28 mm

Deviator Stress v Axial Strain



Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377.
This is provided for information only.

Remarks:

Signed:

Monika Siewior

Monika Siewior
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Daniel Potts

Travis Baker Geo-Environmental Limited
Trinity Point
New Road
Halesowen
West Midlands
B63 3HY

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404

f: 01923 237404

e: reception@i2analytical.com

e: daniel.potts@travisbaker.co.uk

Analytical Report Number : 23-40271

Project / Site name: Bullfurlong Lane, Burbage

Samples received on: 14/06/2023

Your job number: 23046

**Samples instructed on/
Analysis started on:** 15/06/2023

Your order number: 3502G

Analysis completed by: 28/06/2023

Report Issue Number: 1

Report issued on: 29/06/2023

Samples Analysed: 4 soil samples



Signed:

Elżbieta Suchy
Junior Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 23-40271
 Project / Site name: Bullfurlong Lane, Burbage
 Your Order No: 3502G

Lab Sample Number				2720113	2720114	2720115	2720116
Sample Reference				BH02	BH02	BH03	BH03
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.50-3.60	9.00-9.50	6.50-7.00	10.00-10.50
Date Sampled				Deviating	Deviating	Deviating	Deviating
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	10	21	19	16
Total mass of sample received	kg	0.001	NONE	2	0.5	0.5	0.5

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.4	8.2	8.4	8.2
Water Soluble Sulphate as SO ₄ 16hr extraction (2:1)	mg/kg	2.5	MCERTS	420	860	570	790
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.21	0.43	0.29	0.4
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	211	428	285	397

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 23-40271

Project / Site name: Bullfurlong Lane, Burbage

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2720113	BH02	None Supplied	3.50-3.60	Brown clay with gravel.
2720114	BH02	None Supplied	9.00-9.50	Brown clay.
2720115	BH03	None Supplied	6.50-7.00	Brown sandy clay.
2720116	BH03	None Supplied	10.00-10.50	Brown clay.

Analytical Report Number : 23-40271

Project / Site name: Bullfurlong Lane, Burbage

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Sample Deviation Report



Analytical Report Number : 23-40271

Project / Site name: Bullfurlong Lane, Burbage

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
BH02	None Supplied	S	2720113	a	None Supplied	None Supplied	None Supplied
BH02	None Supplied	S	2720114	a	None Supplied	None Supplied	None Supplied
BH03	None Supplied	S	2720115	a	None Supplied	None Supplied	None Supplied
BH03	None Supplied	S	2720116	a	None Supplied	None Supplied	None Supplied



TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

4041

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-48515-1

Date Sampled: 25/07/2023

Date Received: 02/08/2023

Date Tested: 14/08/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2767979

Hole No.: CP01

Sample Reference: Not Given

Sample Description: Brownish grey slightly gravelly sandy CLAY

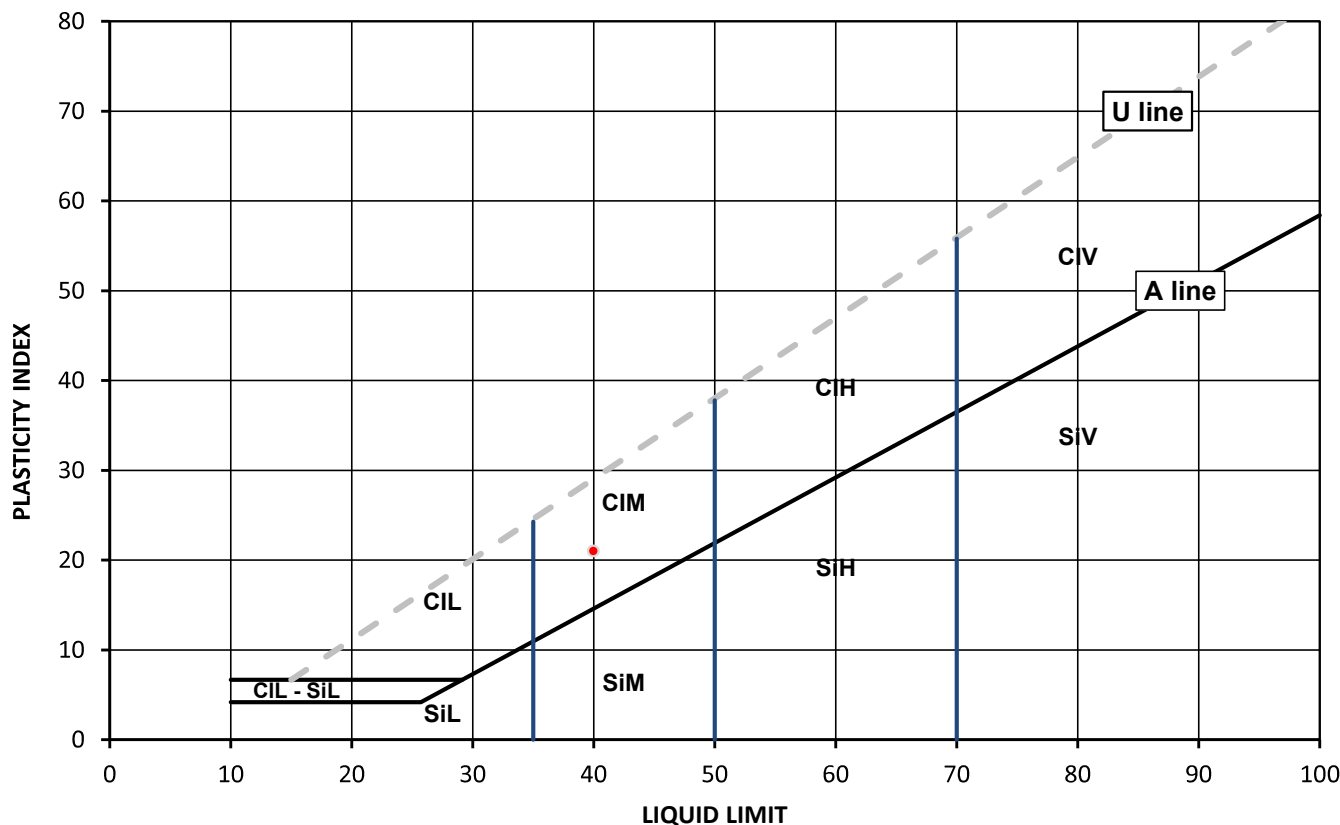
Depth Top [m]: 4.00

Depth Base [m]: 4.45

Sample Type: B

Sample Preparation: Tested after washing to remove >425 µm

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
14	40	19	21	85



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-48515-1

Date Sampled: 26/07/2023

Date Received: 02/08/2023

Date Tested: 14/08/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2767981

Hole No.: CP01

Sample Reference: Not Given

Sample Description: Brownish grey slightly gravelly sandy CLAY

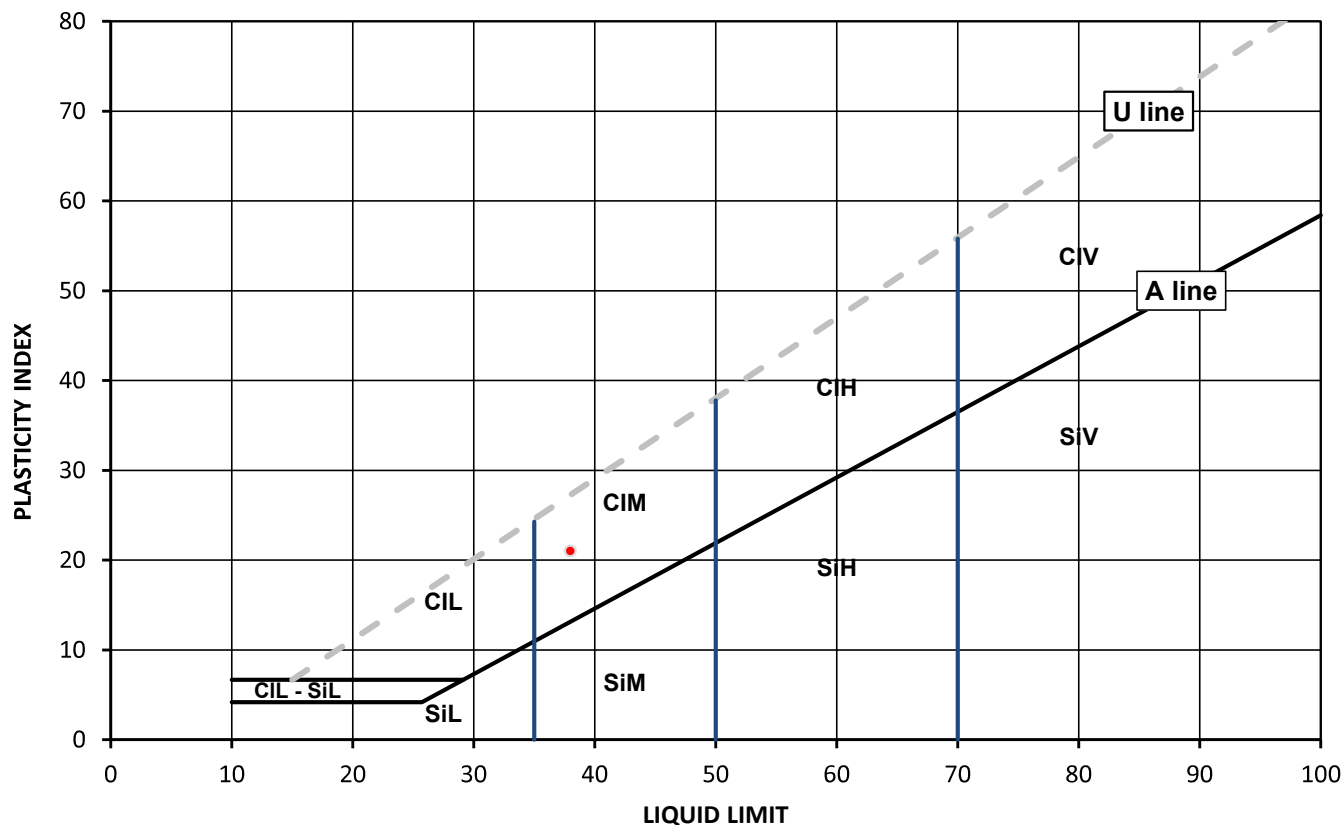
Depth Top [m]: 14.00

Depth Base [m]: 14.45

Sample Type: B

Sample Preparation: Tested after washing to remove >425 µm

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
35	38	17	21	88



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Clay	Plasticity	Liquid Limit
Cl	Clay	L Low	below 35
Si	Silt	M Medium	35 to 50
		H High	50 to 70
		V Very high	exceeding 70
		O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

4041

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-48515-1

Date Sampled: 27/07/2023

Date Received: 02/08/2023

Date Tested: 14/08/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2767982

Hole No.: CP04

Sample Reference: Not Given

Sample Description: Yellowish brown very sandy CLAY

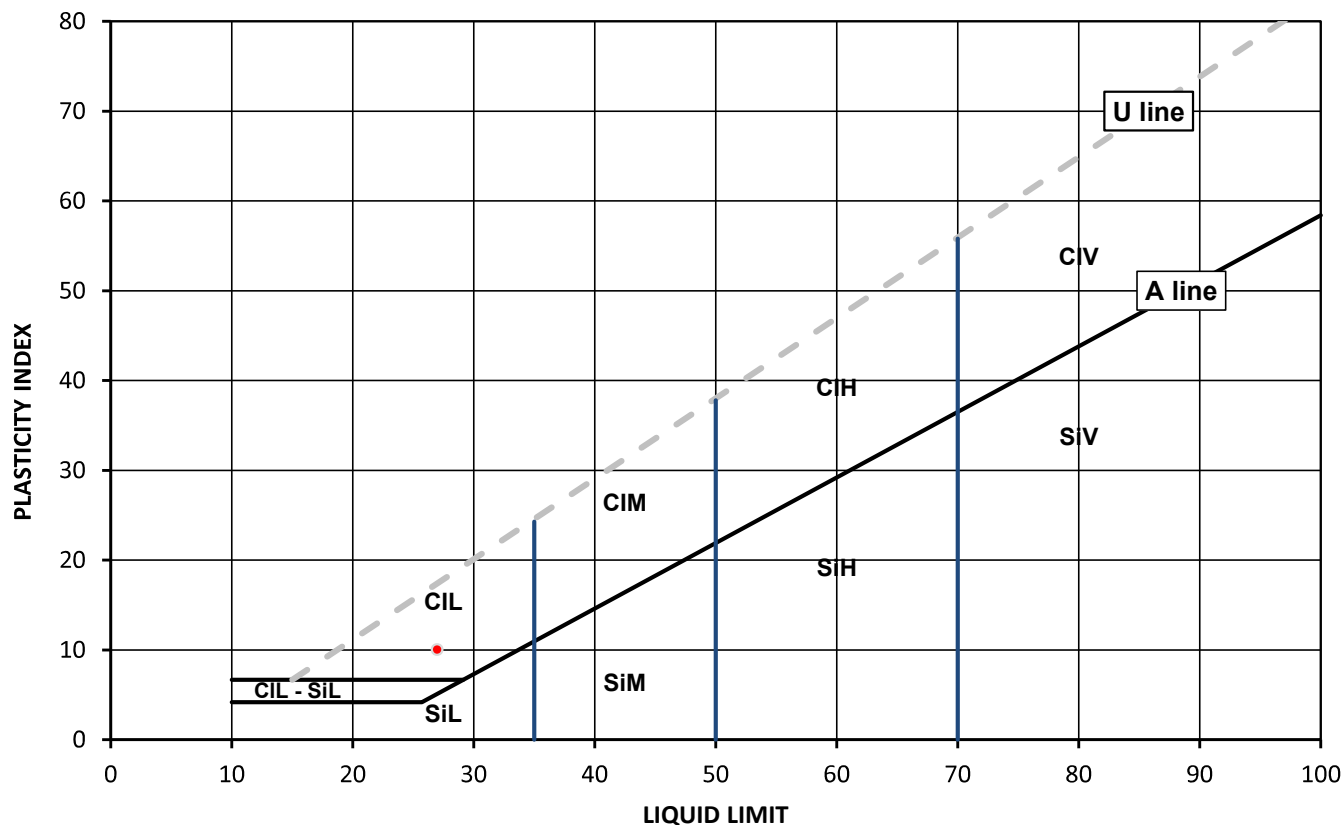
Depth Top [m]: 7.00

Depth Base [m]: 7.45

Sample Type: B

Sample Preparation: Tested in natural condition

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
23	27	17	10	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

4041

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-48515-1

Date Sampled: 27/07/2023

Date Received: 02/08/2023

Date Tested: 14/08/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2767984

Hole No.: CP04

Sample Reference: Not Given

Sample Description: Brownish grey slightly gravelly sandy CLAY

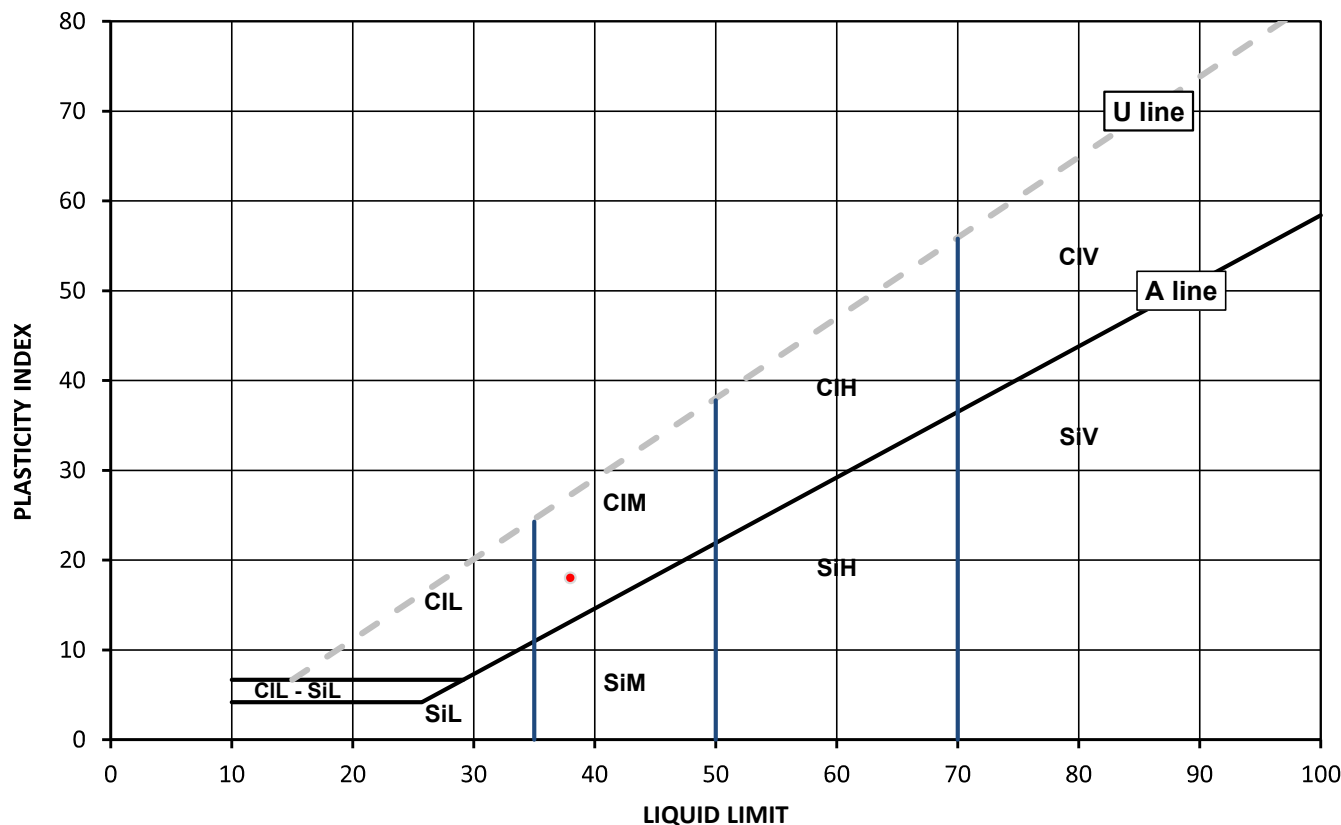
Depth Top [m]: 12.00

Depth Base [m]: 12.45

Sample Type: B

Sample Preparation: Tested after washing to remove >425 µm

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
15	38	20	18	91



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl	Clay	below 35
Si	Silt	35 to 50
	L	Low
	M	Medium
	H	High
	V	Very high
	O	Organic
		append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



TEST CERTIFICATE

DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

4041

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-48515-1

Date Sampled: 27/07/2023

Date Received: 02/08/2023

Date Tested: 14/08/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2767986

Hole No.: CP04

Sample Reference: Not Given

Sample Description: Brownish grey slightly sandy CLAY

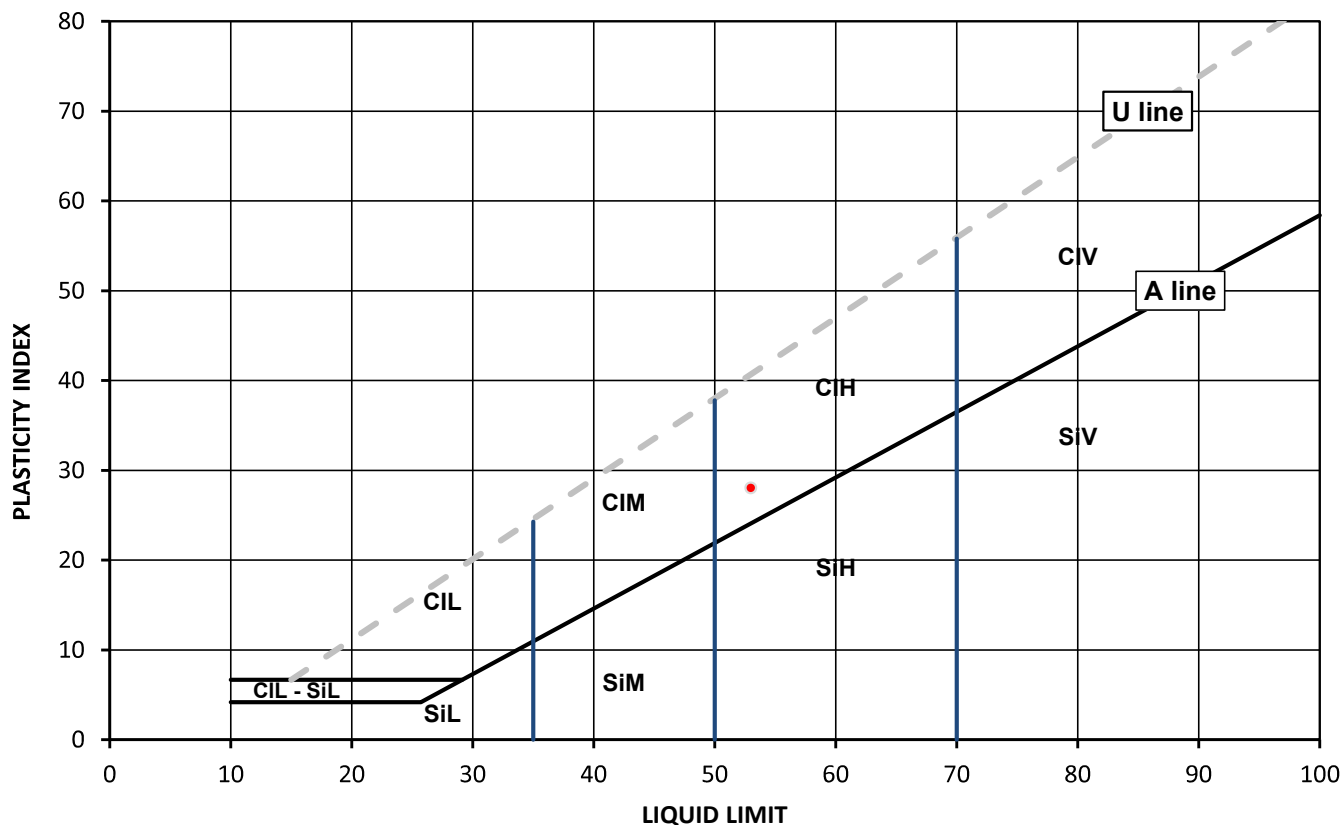
Depth Top [m]: 18.00

Depth Base [m]: 18.45

Sample Type: B

Sample Preparation: Tested in natural condition

As Received Water Content [W] %	Liquid Limit [WL] %	Plastic Limit [Wp] %	Plasticity Index [Ip] %	% Passing 425µm BS Test Sieve
23	53	25	28	100



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

	Plasticity	Liquid Limit
Cl Clay	L Low	below 35
Si Silt	M Medium	35 to 50
	H High	50 to 70
	V Very high	exceeding 70
	O Organic	append to classification for organic material (eg CIHO)

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



SUMMARY REPORT

SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



4041

Client: Travis Baker Geo-Environmental Limited

Water Content by BS 1377-2:1990: Clause 3.2 Atterberg by BS 1377-2: 1990:
Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5

Client Reference: 23046

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Job Number: 23-48515-1

Date Sampled: 25/07 - 27/07/2023

Contact: Daniel Potts

Date Received: 02/08/2023

Date Tested: 14/08/2023

Site Address: Bullfurlong Lane, Burbage

Sampled By: Client - DP

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	Water Content BS 1377-2 [W] %	Water Content BS EN ISO 17892-1 [W] %	Atterberg				Density			Total Porosity# %		
		Reference	Depth Top m	Depth Base m	Type					% Passing 425um %	WL %	Wp %	Ip %	bulk Mg/m3	dry Mg/m3	PD Mg/m3			
2767979	CP01	Not Given	4.00	4.45	B	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	14		85	40	19	21						
2767981	CP01	Not Given	14.00	14.45	B	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	35		88	38	17	21						
2767982	CP04	Not Given	7.00	7.45	B	Yellowish brown very sandy CLAY	Atterberg 1 Point	23		100	27	17	10						
2767984	CP04	Not Given	12.00	12.45	B	Brownish grey slightly gravelly sandy CLAY	Atterberg 1 Point	15		91	38	20	18						
2767986	CP04	Not Given	18.00	18.45	B	Brownish grey slightly sandy CLAY	Atterberg 1 Point	23		100	53	25	28						

Note: # Non accredited; NP - Non plastic

Comments:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



SUMMARY REPORT

DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



4041

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-48515-1

Date Sampled: 25/07 - 27/07/2023

Date Received: 02/08/2023

Date Tested: 14/08/2023

Sampled By: Client - DP

Test results

Laboratory Reference	Hole No.	Sample				Description	Remarks	WC	Sample preparation / Oven temperature at the time of testing			
		Reference	Depth Top m	Depth Base m	Type							
2767979	CP01	Not Given	4.00	4.45	B	Brownish grey slightly gravelly sandy CLAY		14	Sample was quartered, oven dried at 106.8 °C			
2767981	CP01	Not Given	14.00	14.45	B	Brownish grey slightly gravelly sandy CLAY		35	Sample was quartered, oven dried at 106.8 °C			
2767982	CP04	Not Given	7.00	7.45	B	Yellowish brown very sandy CLAY		23	Sample was quartered, oven dried at 106.8 °C			
2767984	CP04	Not Given	12.00	12.45	B	Brownish grey slightly gravelly sandy CLAY		15	Sample was quartered, oven dried at 106.8 °C			
2767986	CP04	Not Given	18.00	18.45	B	Brownish grey slightly sandy CLAY		23	Sample was quartered, oven dried at 106.8 °C			

Comments:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd



TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-48515-1

Date Sampled: 25/07/2023

Date Received: 02/08/2023

Date Tested: 16/08/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2767978

Hole No.: CP01

Sample Reference: Not Given

Sample Description: Brown gravelly CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

Depth Top [m]: 2.00

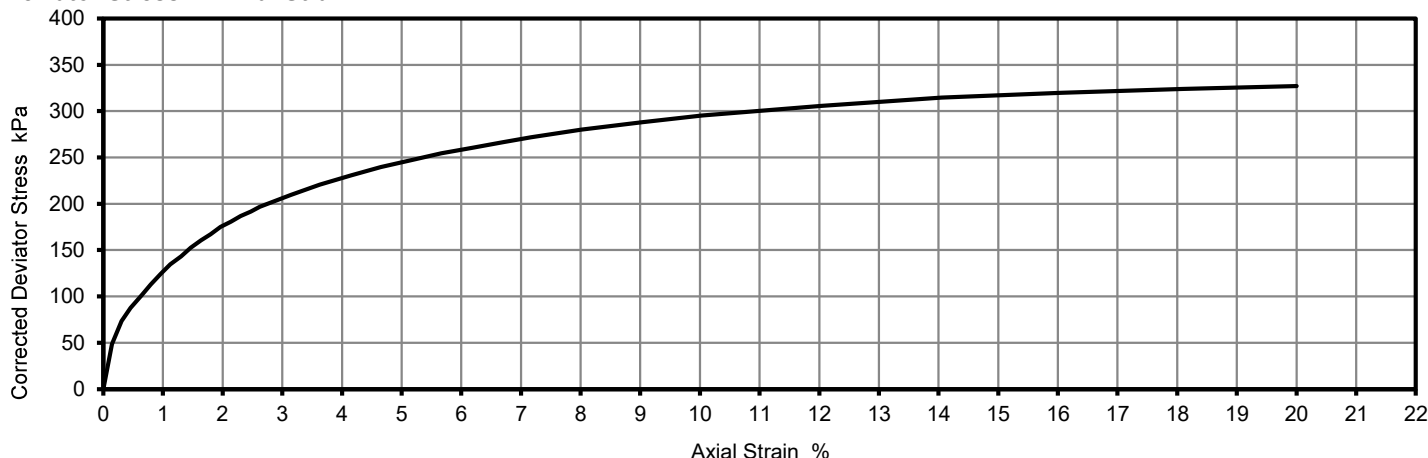
Depth Base [m]: 2.45

Sample Type: U

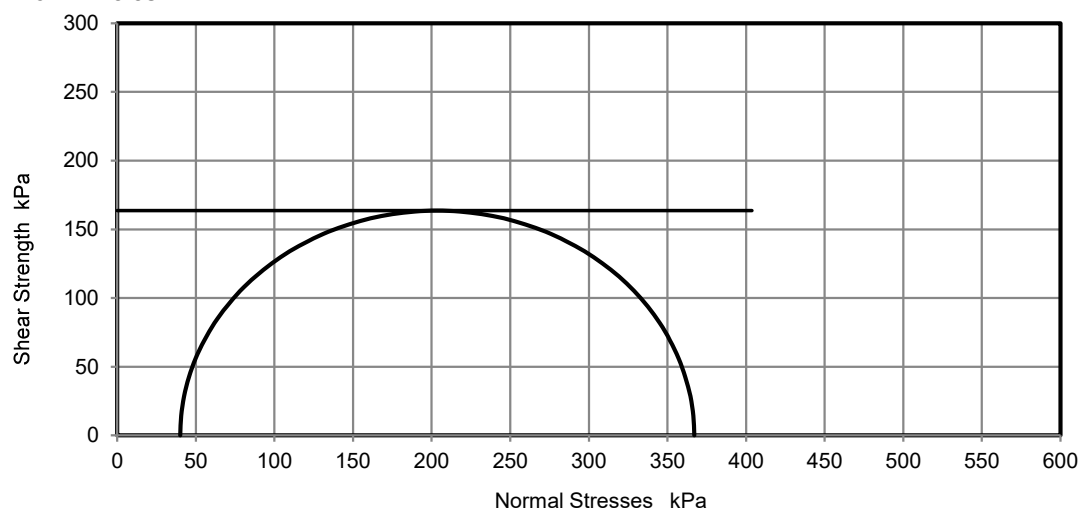
Test Number	1
Length	140.63 mm
Diameter	69.64 mm
Bulk Density	2.15 Mg/m ³
Moisture Content	16 %
Dry Density	1.85 Mg/m ³
Membrane Correction	1.44 kPa

Rate of Strain	2.00 %/min
Cell Pressure	40 kPa
Axial Strain at failure	20.0 %
Deviator Stress, ($\sigma_1 - \sigma_3$) _f	327 kPa
Undrained Shear Strength, c_u	164 kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Mode of Failure	Compound
Latex membrane thickness	0.26 mm

Deviator Stress v Axial Strain



Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377.
This is provided for information only.

Remarks:

Signed:

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-48515-1

Date Sampled: 25/07/2023

Date Received: 02/08/2023

Date Tested: 16/08/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2767980

Hole No.: CP01

Sample Reference: Not Given

Sample Description: Greyish brown CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

Depth Top [m]: 5.00

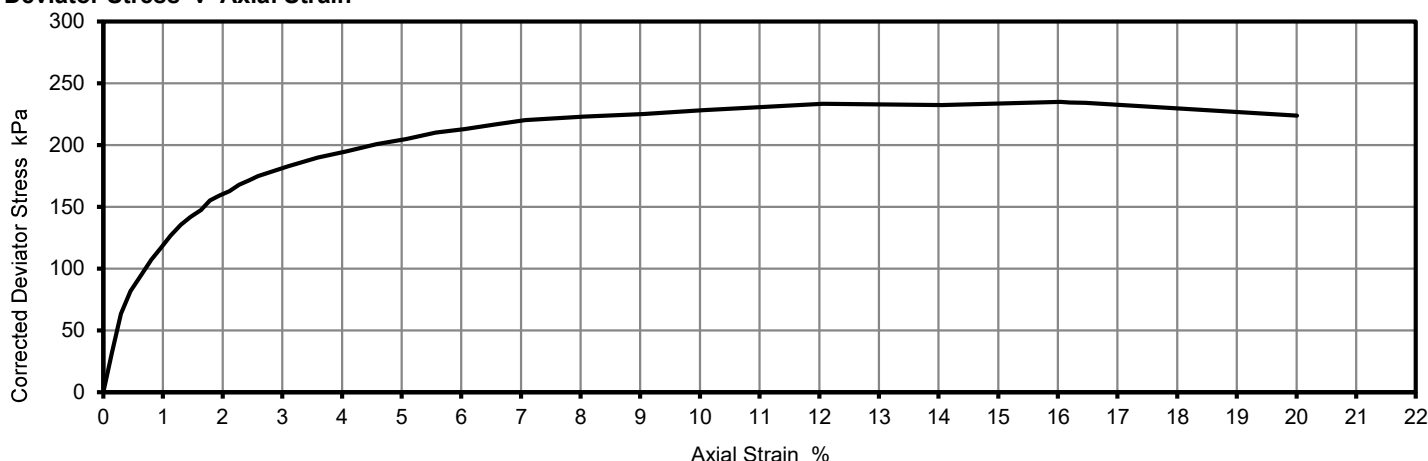
Depth Base [m]: 5.45

Sample Type: U

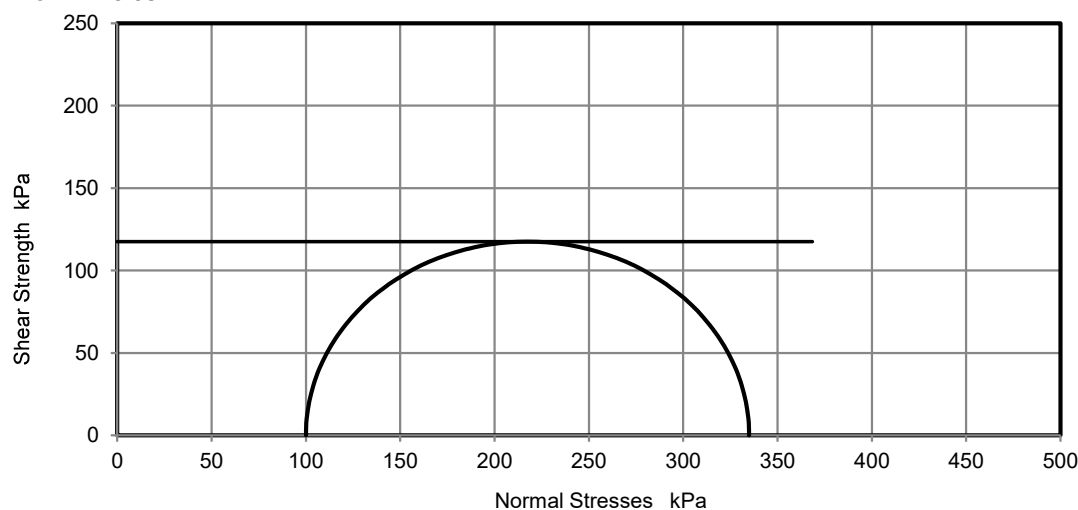
Test Number	1
Length	98.42 mm
Diameter	49.63 mm
Bulk Density	2.07 Mg/m ³
Moisture Content	23 %
Dry Density	1.69 Mg/m ³
Membrane Correction	1.55 kPa

Rate of Strain	2.00 %/min
Cell Pressure	100 kPa
Axial Strain at failure	16.0 %
Deviator Stress, ($\sigma_1 - \sigma_3$) _f	235 kPa
Undrained Shear Strength, c_u	117 kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Mode of Failure	Compound
Latex membrane thickness	0.24 mm

Deviator Stress v Axial Strain



Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377.
This is provided for information only.

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB

4041

Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-48515-1

Date Sampled: 27/07/2023

Date Received: 02/08/2023

Date Tested: 16/08/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2767983

Hole No.: CP04

Sample Reference: Not Given

Sample Description: Orangish brown sandy CLAY

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

Depth Top [m]: 9.00

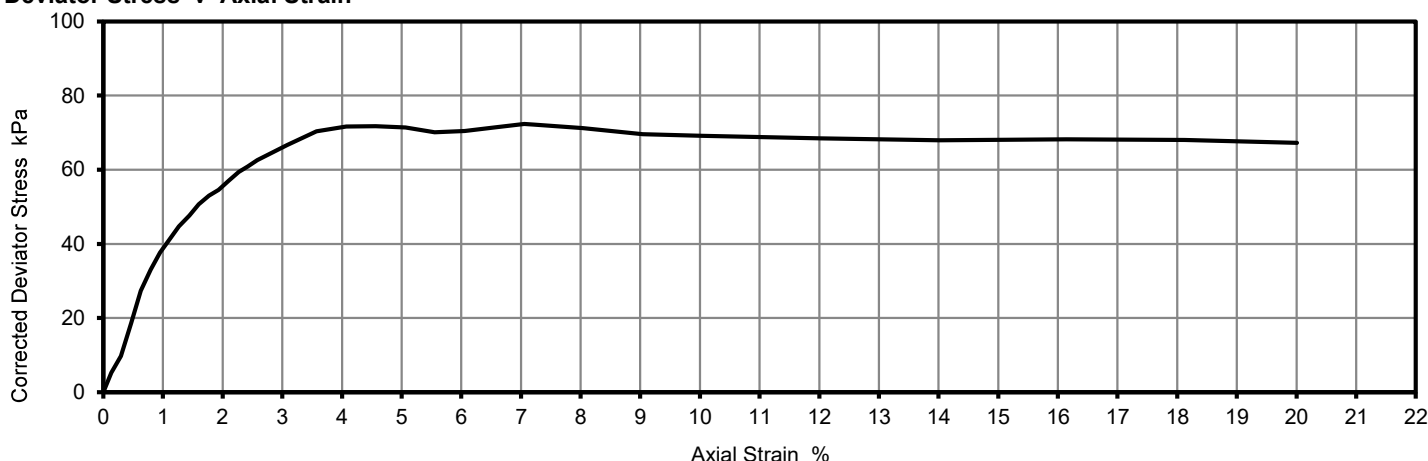
Depth Base [m]: 9.45

Sample Type: U

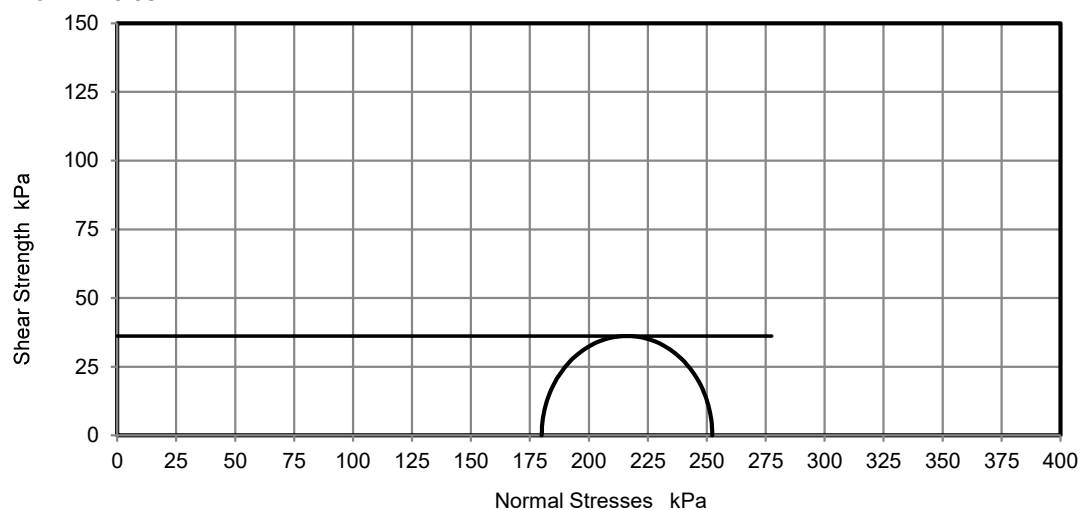
Test Number	1
Length	201.10 mm
Diameter	104.15 mm
Bulk Density	1.90 Mg/m ³
Moisture Content	30 %
Dry Density	1.46 Mg/m ³
Membrane Correction	0.49 kPa

Rate of Strain	2.00 %/min
Cell Pressure	180 kPa
Axial Strain at failure	7.1 %
Deviator Stress, ($\sigma_1 - \sigma_3$) _f	72 kPa
Undrained Shear Strength, c_u	36 kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Mode of Failure	Brittle
Latex membrane thickness	0.29 mm

Deviator Stress v Axial Strain



Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377.
This is provided for information only.

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



TEST CERTIFICATE

DETERMINATION OF THE UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION WITHOUT MEASUREMENT OF PORE PRESSURE

i2 Analytical Ltd
Unit 8 Harrowden Road
Brackmills Industrial Estate
Northampton NN4 7EB



Environmental Science

4041

Tested in Accordance with: BS 1377-7: 1990: Clause 8

Client: Travis Baker Geo-Environmental Limited

Client Address: Trinity Point, New Road,
Halesowen, West Midlands,
B63 3HY

Contact: Daniel Potts

Site Address: Bullfurlong Lane, Burbage

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23046

Job Number: 23-48515-1

Date Sampled: 27/07/2023

Date Received: 02/08/2023

Date Tested: 16/08/2023

Sampled By: Client - DP

Test Results:

Laboratory Reference: 2767985

Hole No.: CP04

Sample Reference: Not Given

Sample Description: Greyish brown gravelly CLAY with fragments of chalk

Sample Preparation: Sample prepared in accordance with BS 1377-1:2016 Clause 9.1.1.

Depth Top [m]: 13.00

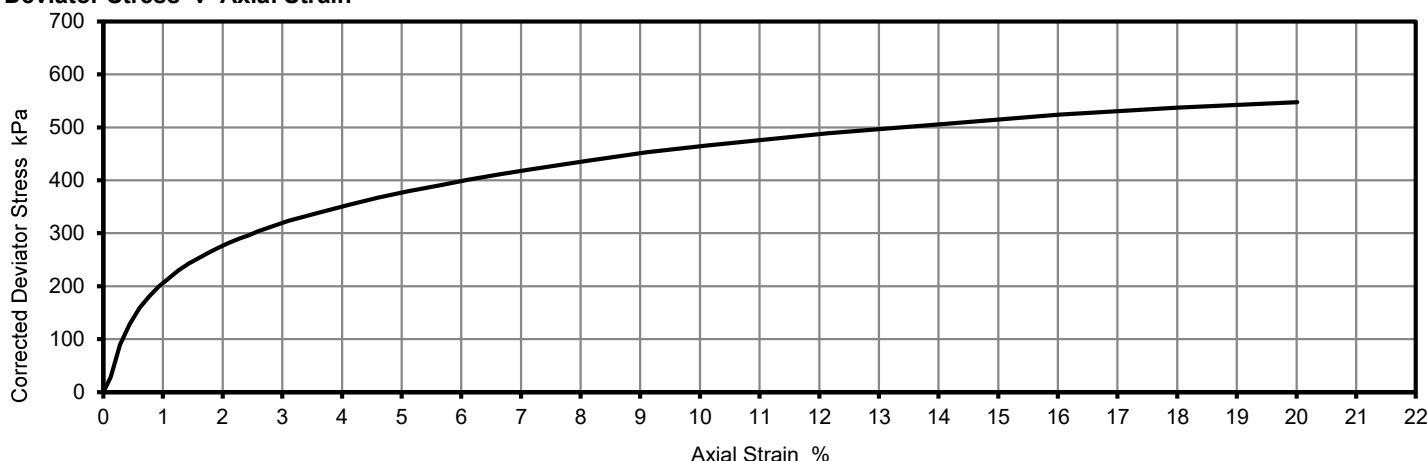
Depth Base [m]: 13.45

Sample Type: U

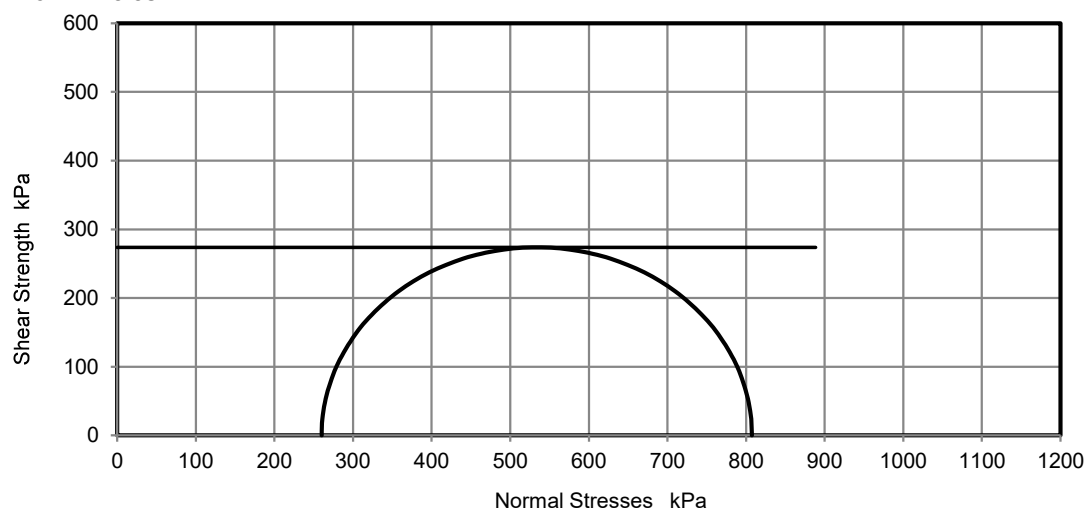
Test Number	1
Length	140.47 mm
Diameter	69.92 mm
Bulk Density	2.20 Mg/m ³
Moisture Content	12 %
Dry Density	1.96 Mg/m ³
Membrane Correction	1.38 kPa

Rate of Strain	2.00 %/min
Cell Pressure	260 kPa
Axial Strain at failure	20.0 %
Deviator Stress, ($\sigma_1 - \sigma_3$) _f	548 kPa
Undrained Shear Strength, c_u	274 kPa $\frac{1}{2}(\sigma_1 - \sigma_3)_f$
Mode of Failure	Compound
Latex membrane thickness	0.25 mm

Deviator Stress v Axial Strain



Mohr Circles



Position within sample



Note: Deviator stress corrected for area change and membrane effects. Mohr circles and their interpretation is not covered by BS1377.
This is provided for information only.

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel
Reporting Specialist
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.

**Daniel Potts**

Travis Baker Geo-Environmental Limited
Trinity Point
New Road
Halesowen
West Midlands
B63 3HY

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404

f: 01923 237404

e: reception@i2analytical.com

e: daniel.potts@travisbaker.co.uk

Analytical Report Number : 23-48560

Project / Site name: Bullfurlong Lane, Burbage

Samples received on: 31/07/2023

Your job number: 23046

**Samples instructed on/
Analysis started on:** 02/08/2023

Your order number: 3585G

Analysis completed by: 09/08/2023

Report Issue Number: 1

Report issued on: 09/08/2023

Samples Analysed: 8 soil samples

Signed: _____

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 23-48560
 Project / Site name: Bullfurlong Lane, Burbage
 Your Order No: 3585G

Lab Sample Number				2768186	2768187	2768188	2768189	2768190
Sample Reference				CP01	CP01	CP01	CP04	CP04
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				6.00	12.00	14.00	3.00	5.00
Date Sampled				27/07/2023	27/07/2023	27/07/2023	27/07/2023	27/07/2023
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	16	13	13	11	15
Total mass of sample received	kg	0.001	NONE	0.3	0.3	0.3	0.2	0.3

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.6	8.3	8	8	8.2
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0636	0.175	0.169	0.0052	0.0072

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 23-48560
 Project / Site name: Bullfurlong Lane, Burbage
 Your Order No: 3585G

Lab Sample Number				2768191	2768192	2768193
Sample Reference				CP04	CP04	CP04
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				8.00	13.00	19.00
Date Sampled				27/07/2023	28/07/2023	28/07/2023
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status			
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	18	14	15
Total mass of sample received	kg	0.001	NONE	0.2	0.3	0.2

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.3	8.3	8.4
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0858	0.185	0.259

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 23-48560

Project / Site name: Bullfurlong Lane, Burbage

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2768186	CP01	None Supplied	6	Brown clay.
2768187	CP01	None Supplied	12	Brown clay with gravel.
2768188	CP01	None Supplied	14	Brown clay with gravel.
2768189	CP04	None Supplied	3	Brown clay and sand with gravel.
2768190	CP04	None Supplied	5	Brown clay and sand with gravel.
2768191	CP04	None Supplied	8	Brown clay.
2768192	CP04	None Supplied	13	Brown clay.
2768193	CP04	None Supplied	19	Brown clay.

Analytical Report Number : 23-48560

Project / Site name: Bullfurlong Lane, Burbage

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

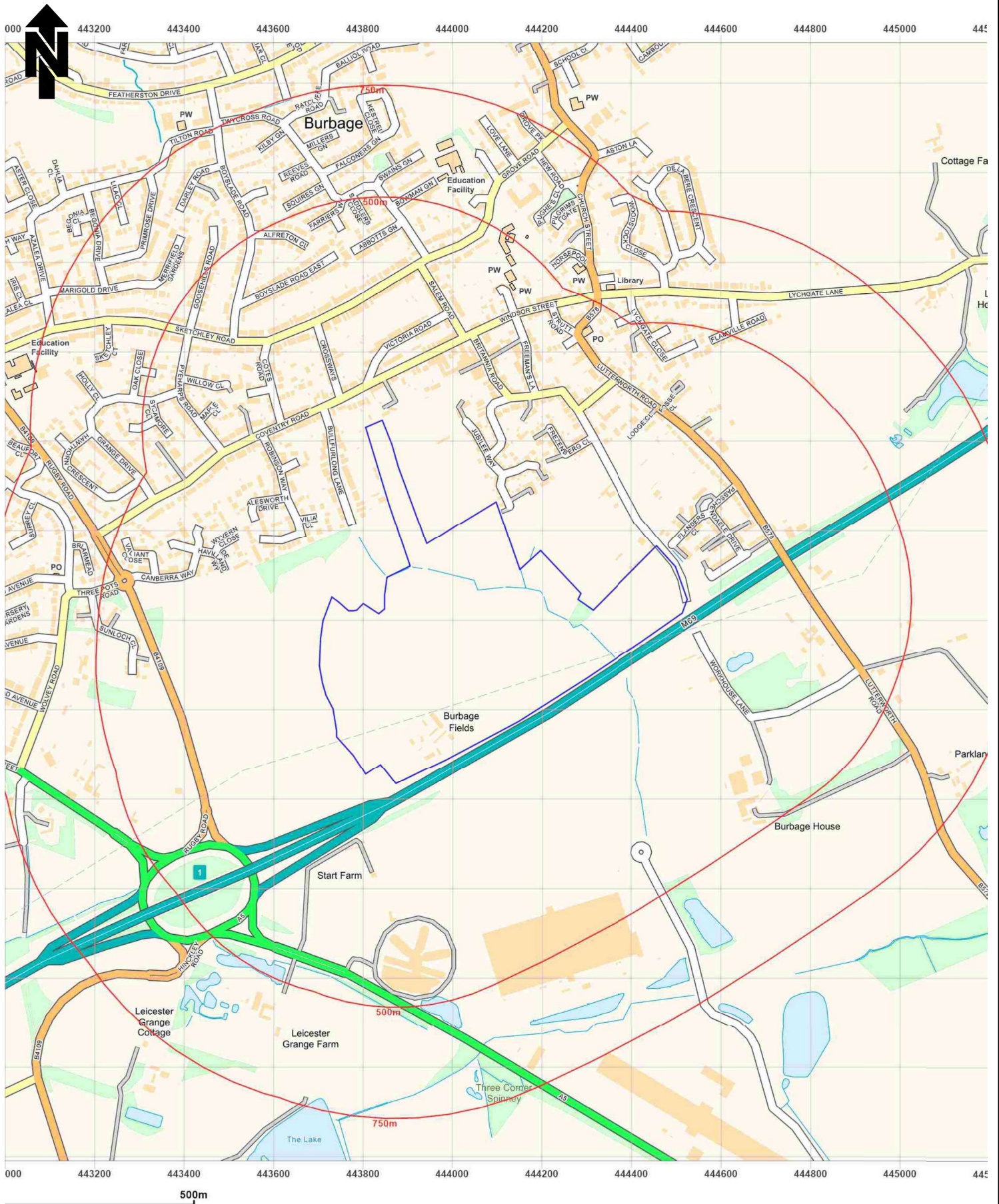
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

DRAWINGS





Travis Baker
Geo-Environmental Ltd
Trinity Point
New Road
Halesowen
West Midlands
B63 3HY

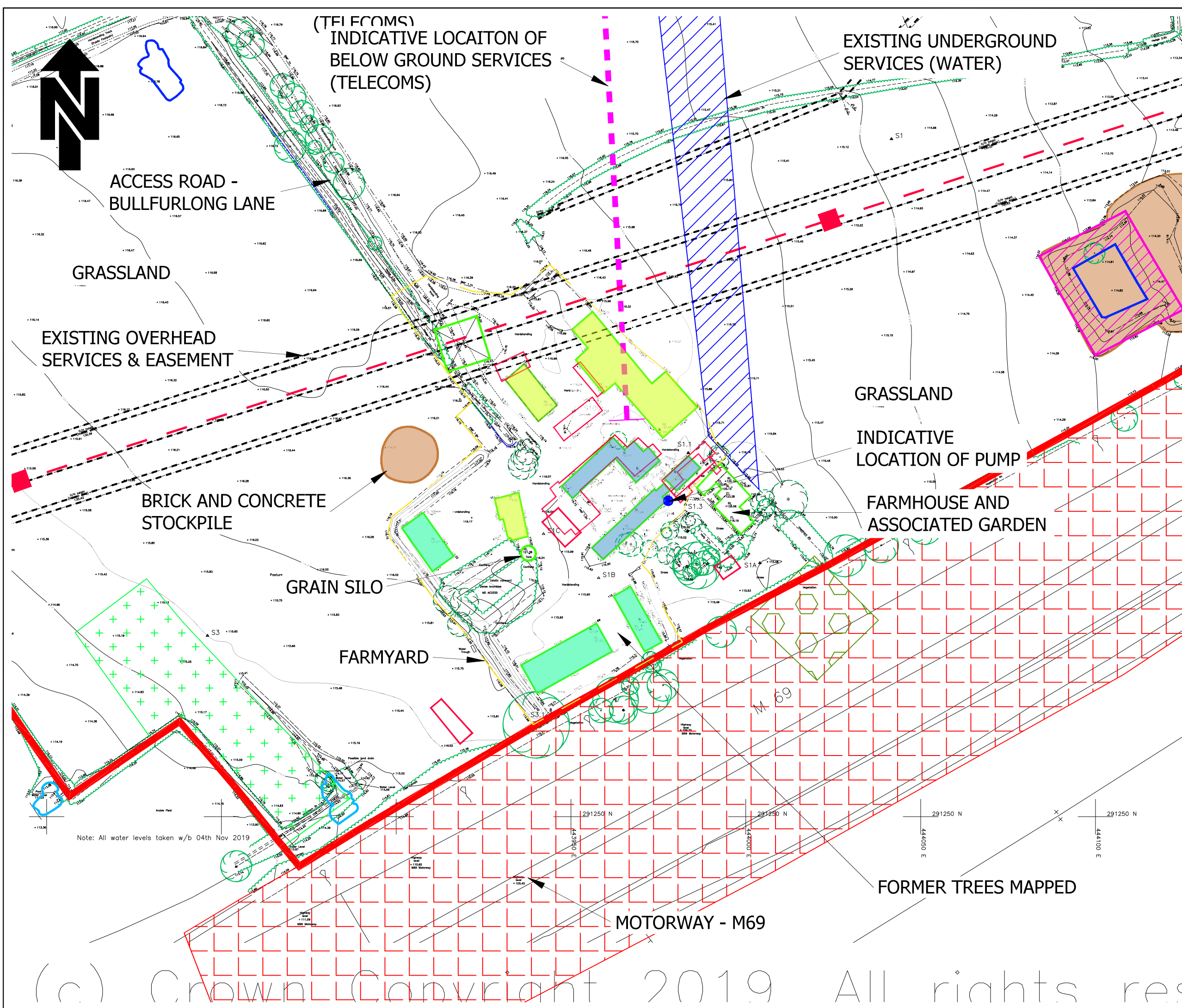
Tel: **0121 550 8037**

info@travisbaker.co.uk
www.travisbaker.co.uk

CLIENT
REDROW HOMES LIMITED & MR FARMER
PROJECT
BULLFURLONG LANE, BURBAGE
TITLE
SITE LOCATION PLAN

DRAWN	AUTHORISED	SCALE	DATE
DP	LG	NTS	26/07/23
PROJECT NO.	DRAWING NO.	REV	
23046	GE02	A	
A	ADDITIONAL CLIENT NAME ADDED	26/09/23	BH CC
REV	DESCRIPTION	DATE	BY AUTH
STATUS.			

COPYRIGHT TRAVIS BAKER GEO-ENVIRONMENTAL LIMITED, ALL RIGHTS RESERVED.



(TELECOMS)
INDICATIVE LOCATON OF
BELOW GROUND SERVICES
(TELECOMS)

EXISTING UNDERGROUND
SERVICES (WATER)

KEY:

- SITE BOUNDARY
- OVERHEAD SERVICES
- INDICATIVE LOCATION OF BURIED SERVICES (BT)
- POTENTIAL LOCATION OF BURIED SERVICES (WATER)
(LOCATION DETERMINED VIA LANDOWNER, OBSERVATION IN TRIAL PIT AND STOP TAP LOCATION)
- INDICATIVE LOCATION OF POND
- AMALGAMATED HISTORICAL LOCATIONS OF FORMER POND
- INDICATIVE LOCATION OF THE FARMYARD
- INDICATIVE LOCATION OF CURRENT BUILDINGS AND STRUCTURES
- HISTORICAL BUILDINGS
- APPROXIMATE LOCATION OF STOCKPILE
- HISTORICAL LOCATION OF FORMER MIXED WOODLAND
- HISTORICAL LOCATION OF FORMER ORCHARD
- HISTORICAL FEATURES: SURFACE GROUND WORKINGS
- INDICATIVE LOCATION OF DISTURBED GROUND
- STEEL FRAMED CANOPY BUILDINGS
- TIMBER FRAMED STORAGE SHEDS
- AGRICULTURAL STORAGE BUILDINGS OF BRICK CONSTRUCTION

A	CLIENT NAME ADDED	26/09/23	BH	CC
REV	DESCRIPTION	DATE	BY	AUTH

Travis Baker
Geo-Environmental Ltd
Trinity Point
New Road
Halesowen
West Midlands
B63 3HY

Tel: **0121 550 8037**
info@travisbaker.co.uk
www.travisbaker.co.uk

CLIENT
REDROW HOMES LIMITED & MR FARMER

PROJECT
BULLFURLONG LANE, BURBAGE

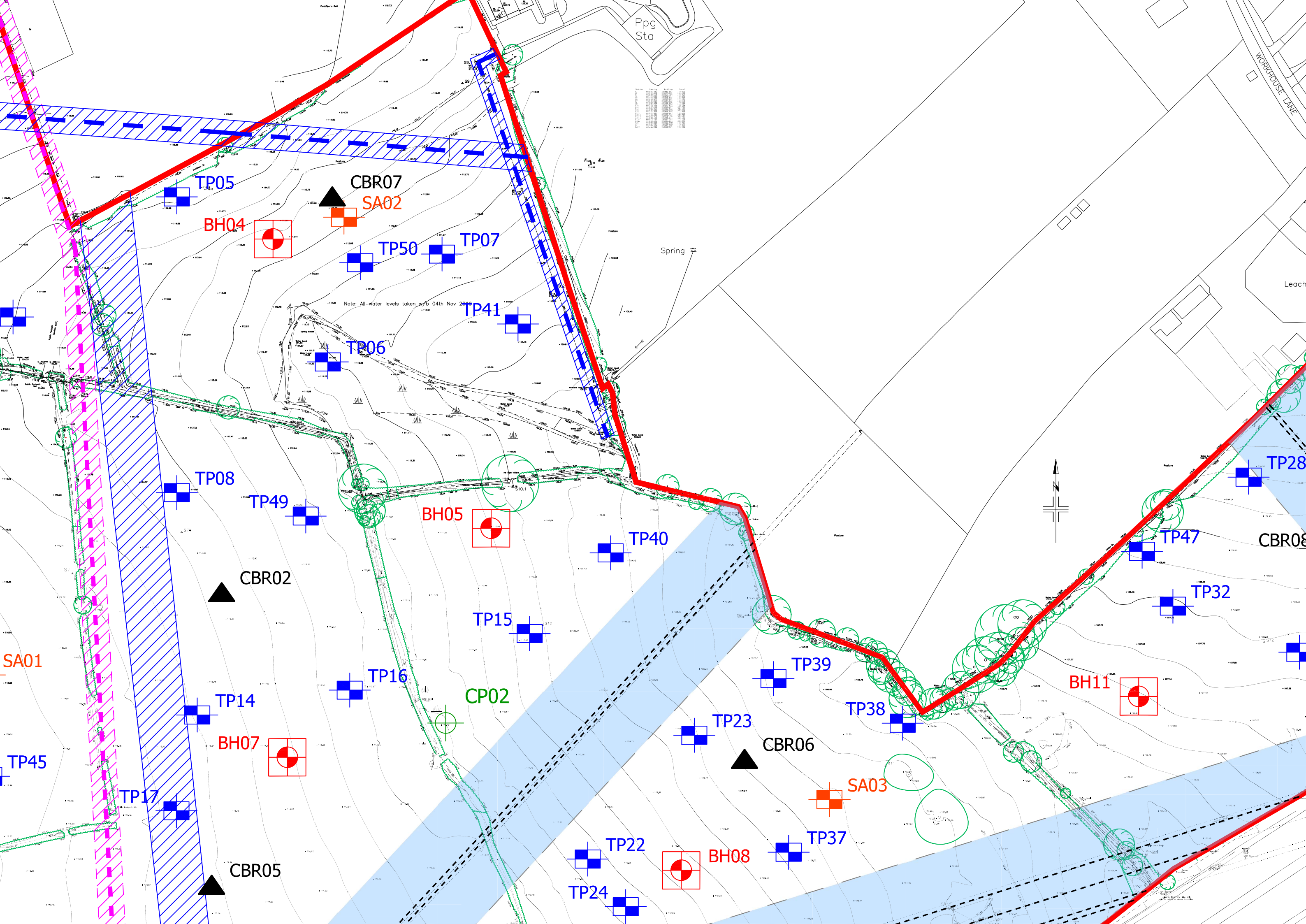
TITLE
FARMYARD FEATURES PLAN

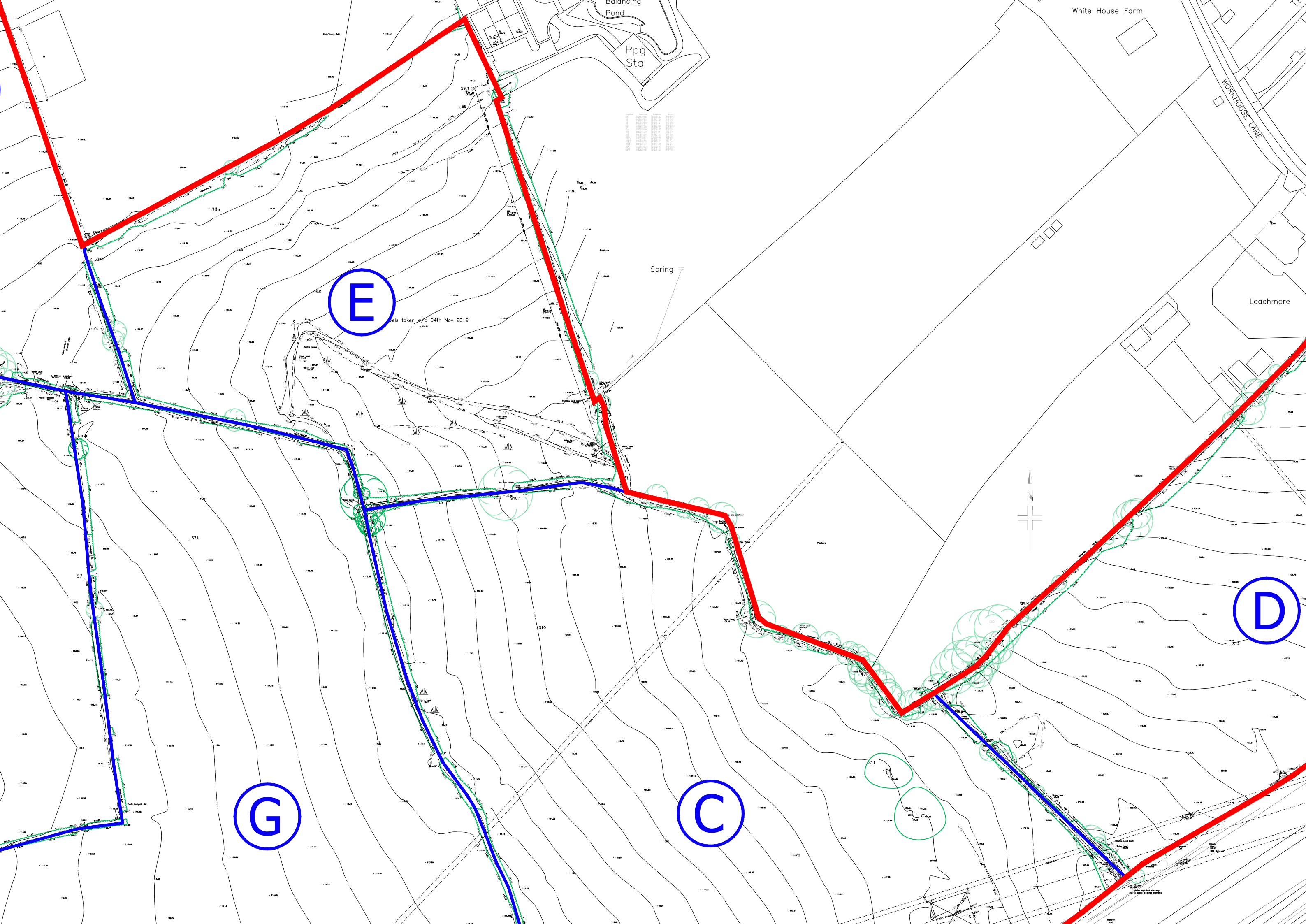
DRAWN DP	AUTHORISED LG	SCALE 1:1000@A3	DATE 21/6/23
-------------	------------------	--------------------	-----------------

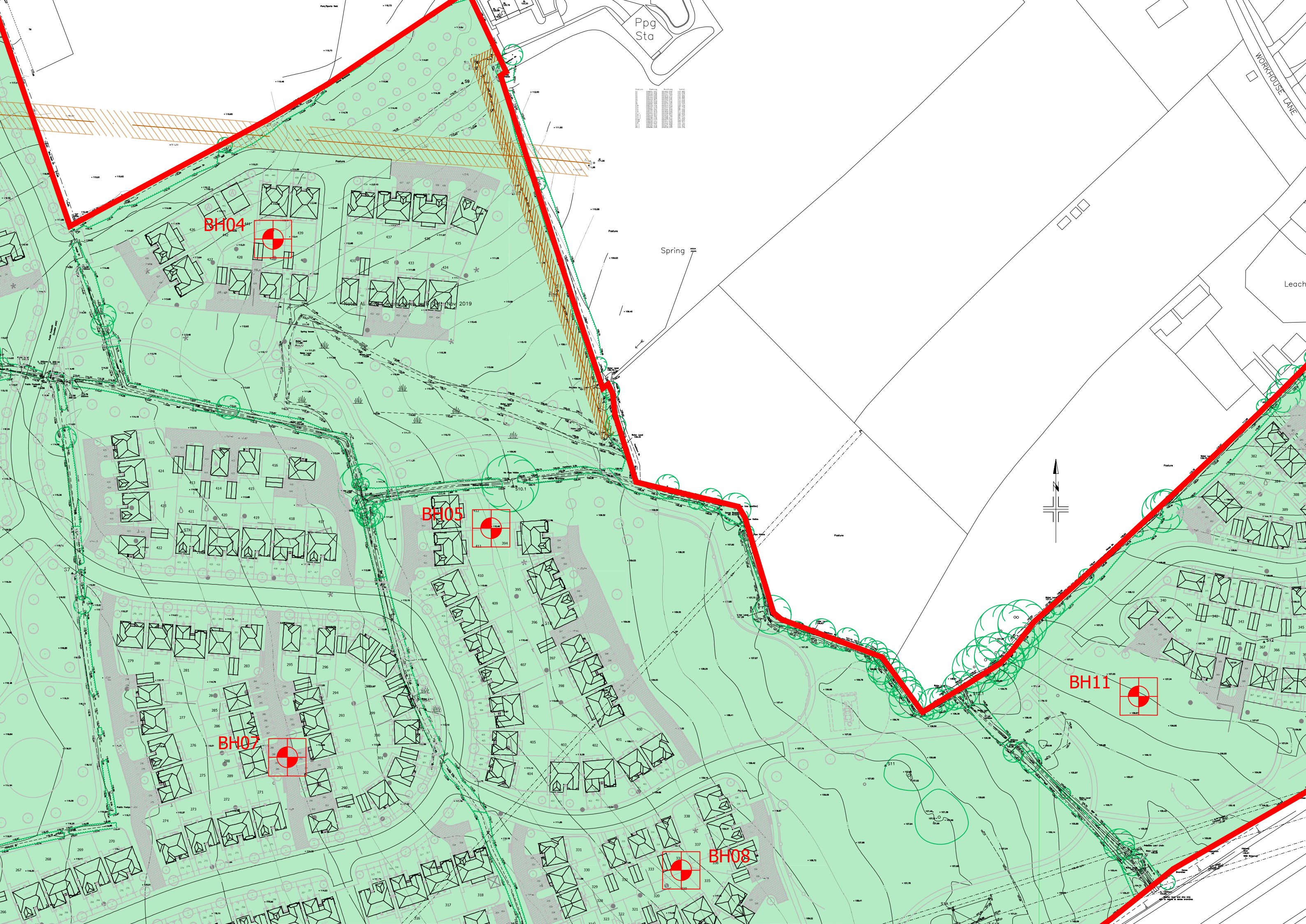
PROJECT NO. 23046	DRAWING NO. GE04	REV A
----------------------	---------------------	----------

STATUS
-

(c) Crown Copyright 2019 All rights reserved







Ppg
Sta

WORKHOUSE LANE

Leach

Spring

BH11

BH08

BH05

BH04

BH07