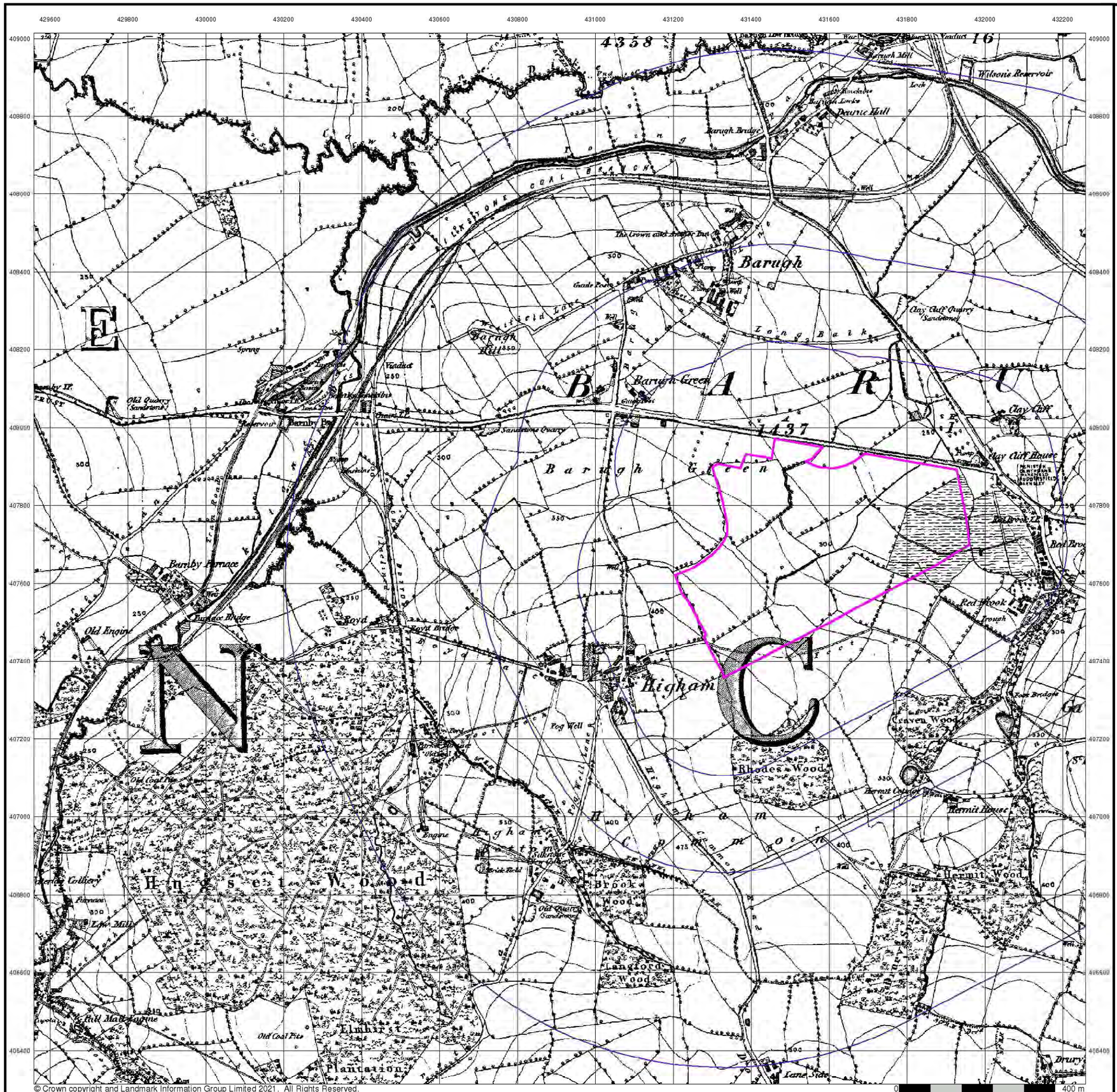


LITHOS CONSULTING

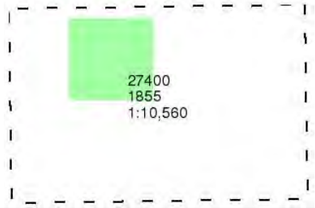
Yorkshire

Published 1855

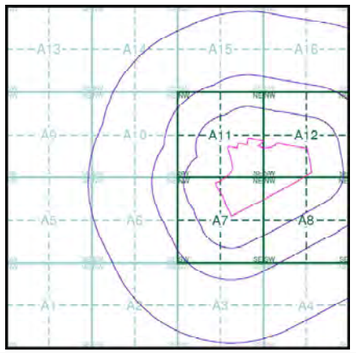
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



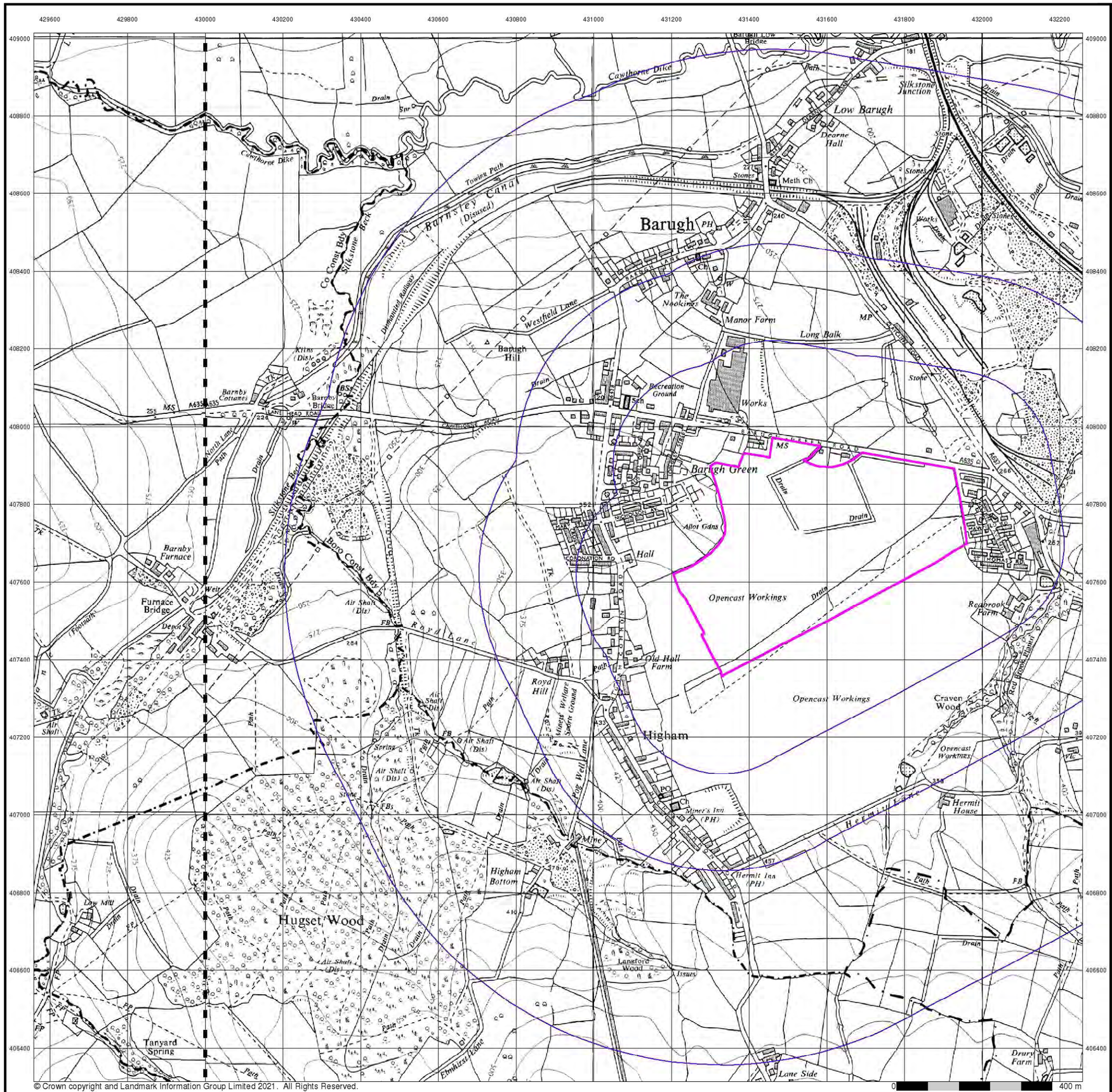
Order Details

Order Number:	285906919_1_1
Customer Ref:	PO18133/JW/3404
National Grid Reference:	431320, 407670
Slice:	A
Site Area (Ha):	26.8
Search Buffer (m):	1000

Site Details

Barugh Green Road, S75 2RW

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



LITHOS CONSULTING

Ordnance Survey Plan

Published 1965 - 1966

Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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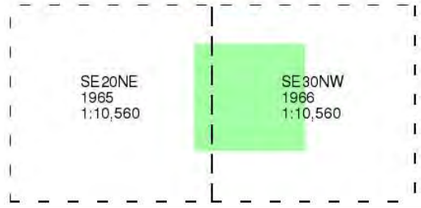
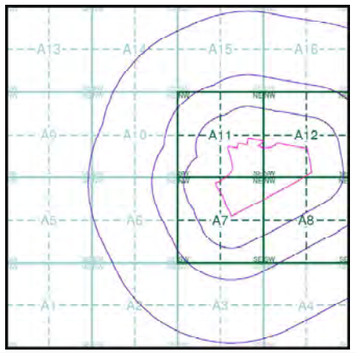


Historical Map - Slice A



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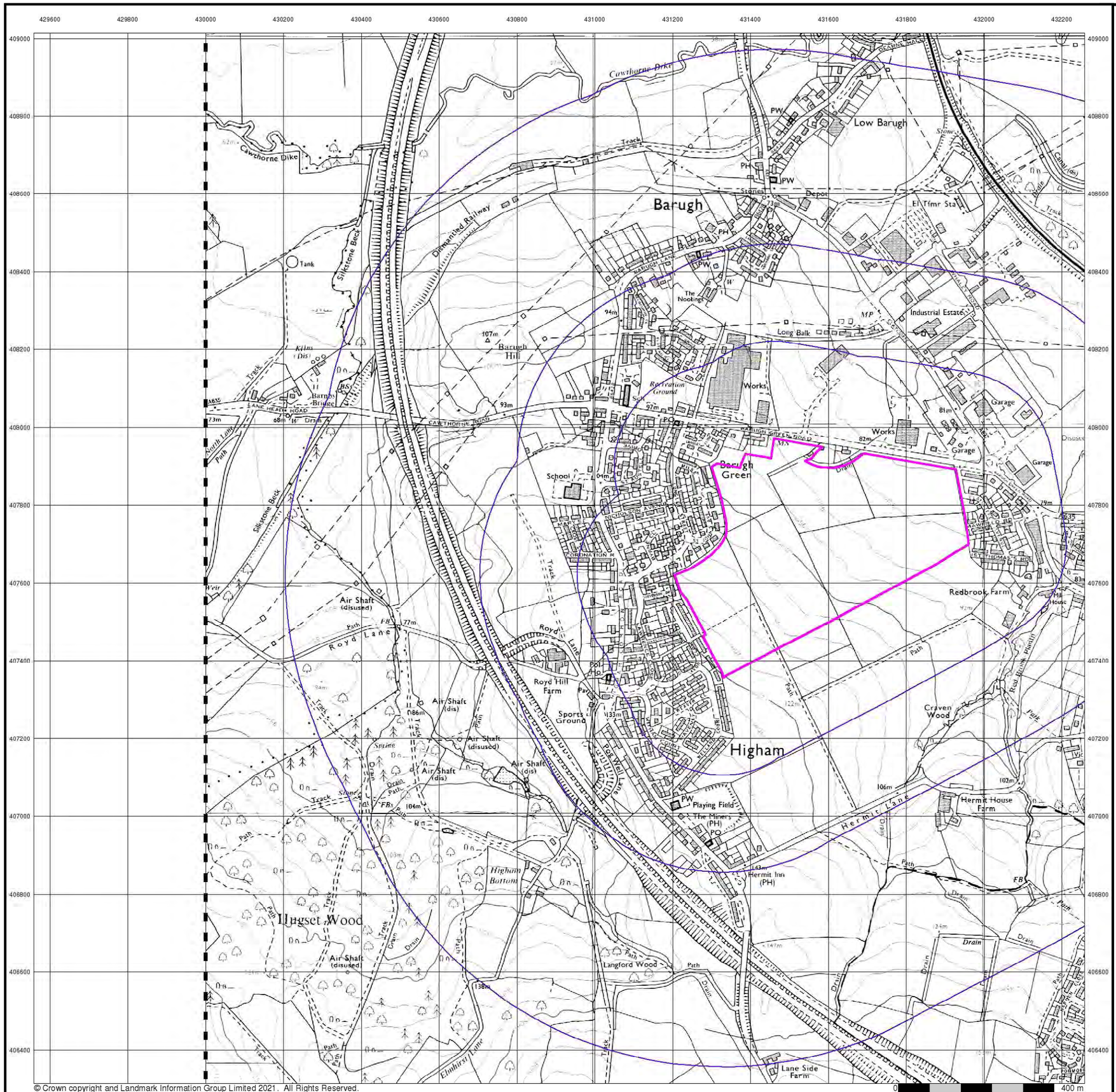

LITHOS CONSULTING

Ordnance Survey Plan

Published 1993

Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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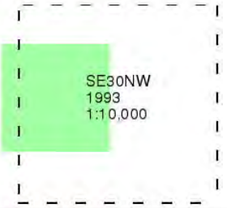
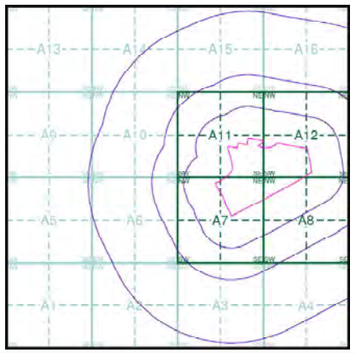


Historical Map - Slice A



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Appendix E

Search Responses & other Correspondence

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
285906919_1_1

Customer Reference:
PO18133/JW/3404

National Grid Reference:
431320, 407670

Slice:
A

Site Area (Ha):
26.8

Search Buffer (m):
1000

Site Details:

Barugh Green Road
S75 2RW

Client Details:

Mr M Perrin
Lithos Consulting Ltd
Parkhill
Walton Road
Wetherby
LS22 5DZ

Contents

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.
In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

Report Version v53.0

LITHOS CONSULTING

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 3		3	3	10
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 7		5	4	5
Local Authority Pollution Prevention and Control Enforcements	pg 9			1	1
Nearest Surface Water Feature		Yes			
Pollution Incidents to Controlled Waters	pg 9			2	13
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 12				2
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 12				1
Water Abstractions	pg 12				(*2)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 13	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 13	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 13	4	8	13	55

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 23		4	4	2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 25			1	
Local Authority Landfill Coverage	pg 25	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 25		2	5	2
Potentially Infilled Land (Non-Water)	pg 26		1	1	8
Potentially Infilled Land (Water)	pg 27		4	7	8
Registered Landfill Sites	pg 28		1	4	1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

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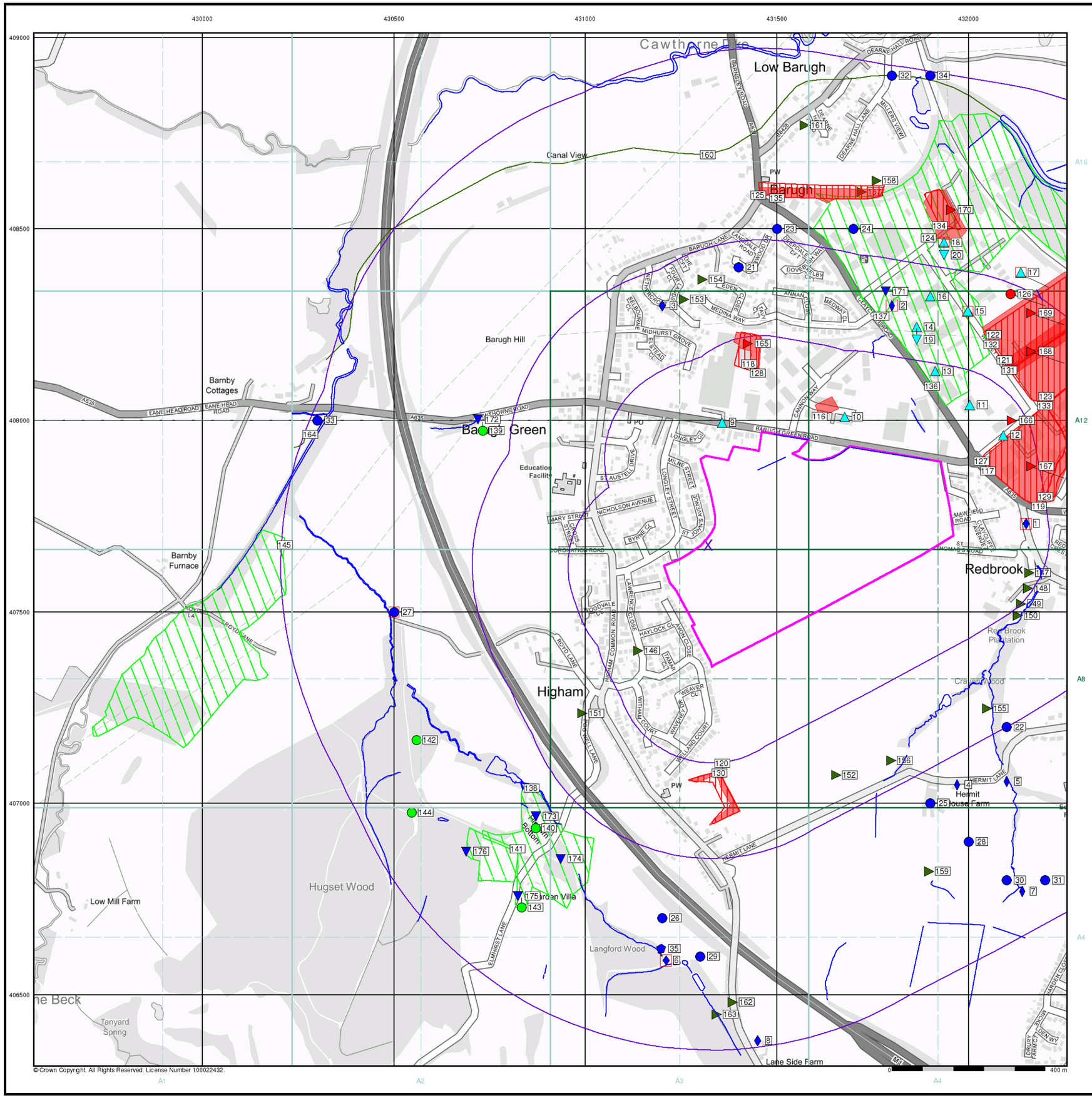
Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 31	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 31	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 33			1	5
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 34	Yes	n/a	n/a	n/a
Mining Instability	pg 34	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 34	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 34	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 34	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 35	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 35	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 35	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 35	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 36		58	16	21
Fuel Station Entries	pg 44		1		
Points of Interest - Commercial Services	pg 44		11	3	7
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 46		6	6	7
Points of Interest - Public Infrastructure	pg 48		2		
Points of Interest - Recreational and Environmental	pg 48		4	6	
Gas Pipelines					
Underground Electrical Cables					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 50				4
Areas of Adopted Green Belt	pg 50			1	
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 50	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					



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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

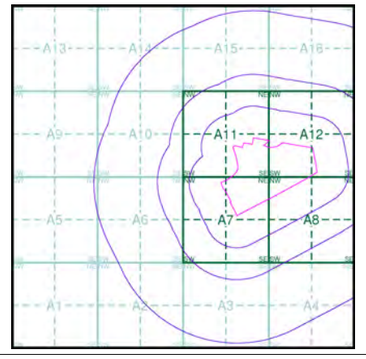
Geological

- BGS Recorded Mineral Site

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Slice A



Order Details

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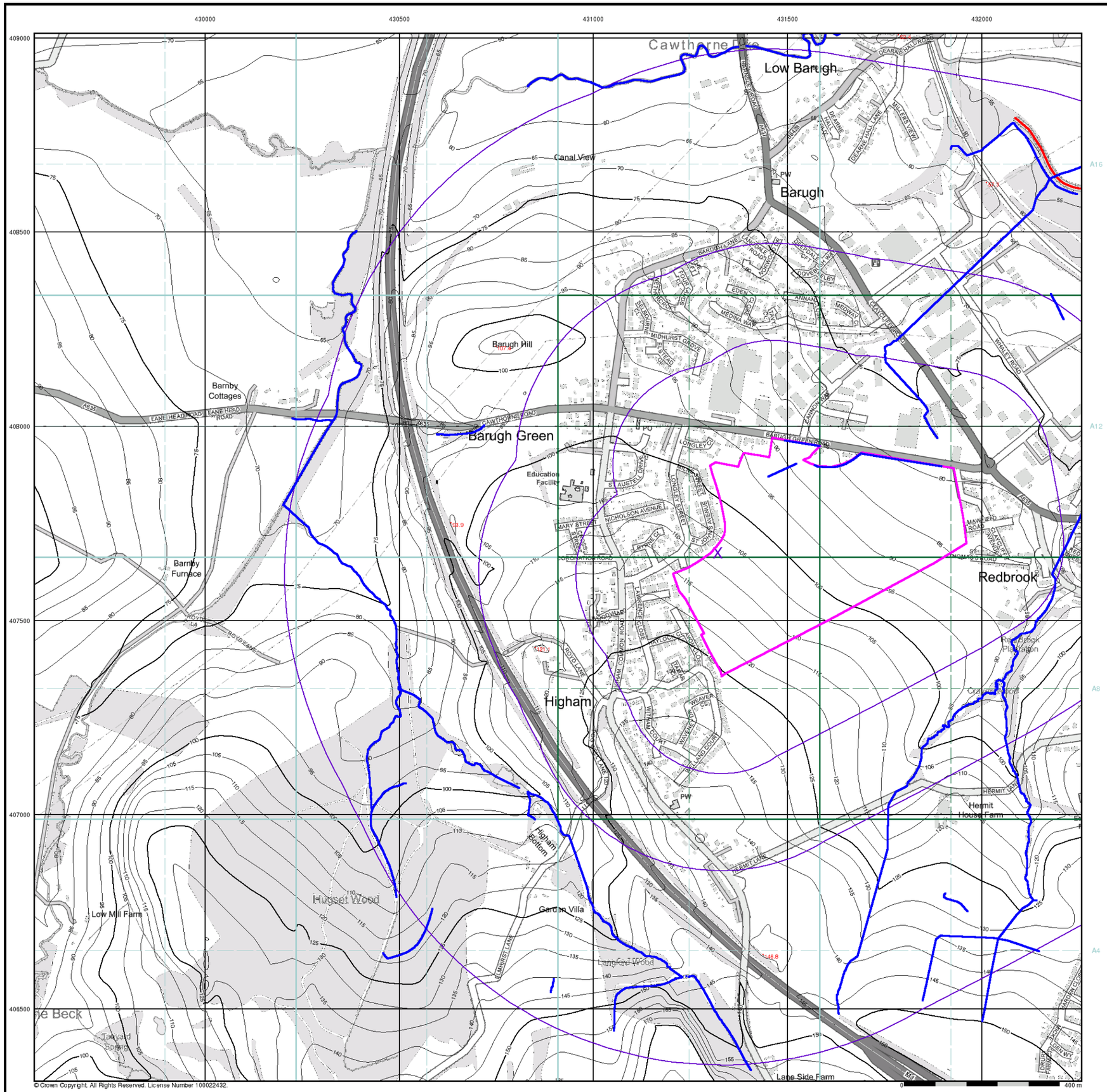
National Grid Reference:	431320, 407670
Slice:	A
Site Area (Ha):	26.8
Search Buffer (m):	1000

Site Details

Barugh Green Road, S75 2RW

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



LITHOS CONSULTING

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

OS Water Network Data

- Canal
- Reservoir
- Foreshore
- Marsh
- Tidal River
- Inland River
- Drain
- Other
- Lake
- Transfer
- Lock Or Flight Of Locks
- Sea

Contours (height in meters)

Standard Contour 105 100 95

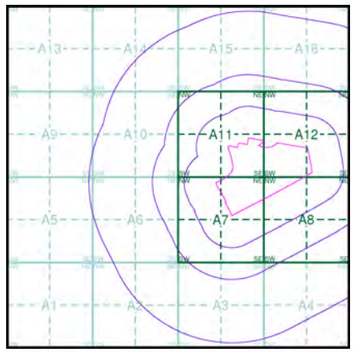
Master Contour

Spot Height 167.3

MLW Mean Low Water

MHW Mean High Water

OS Water Network Map - Slice A



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LITHOS CONSULTING

General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

Risk of Flooding from Surface Water

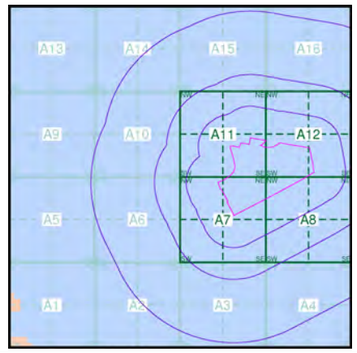
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA/NRW Suitability Map - Slice A



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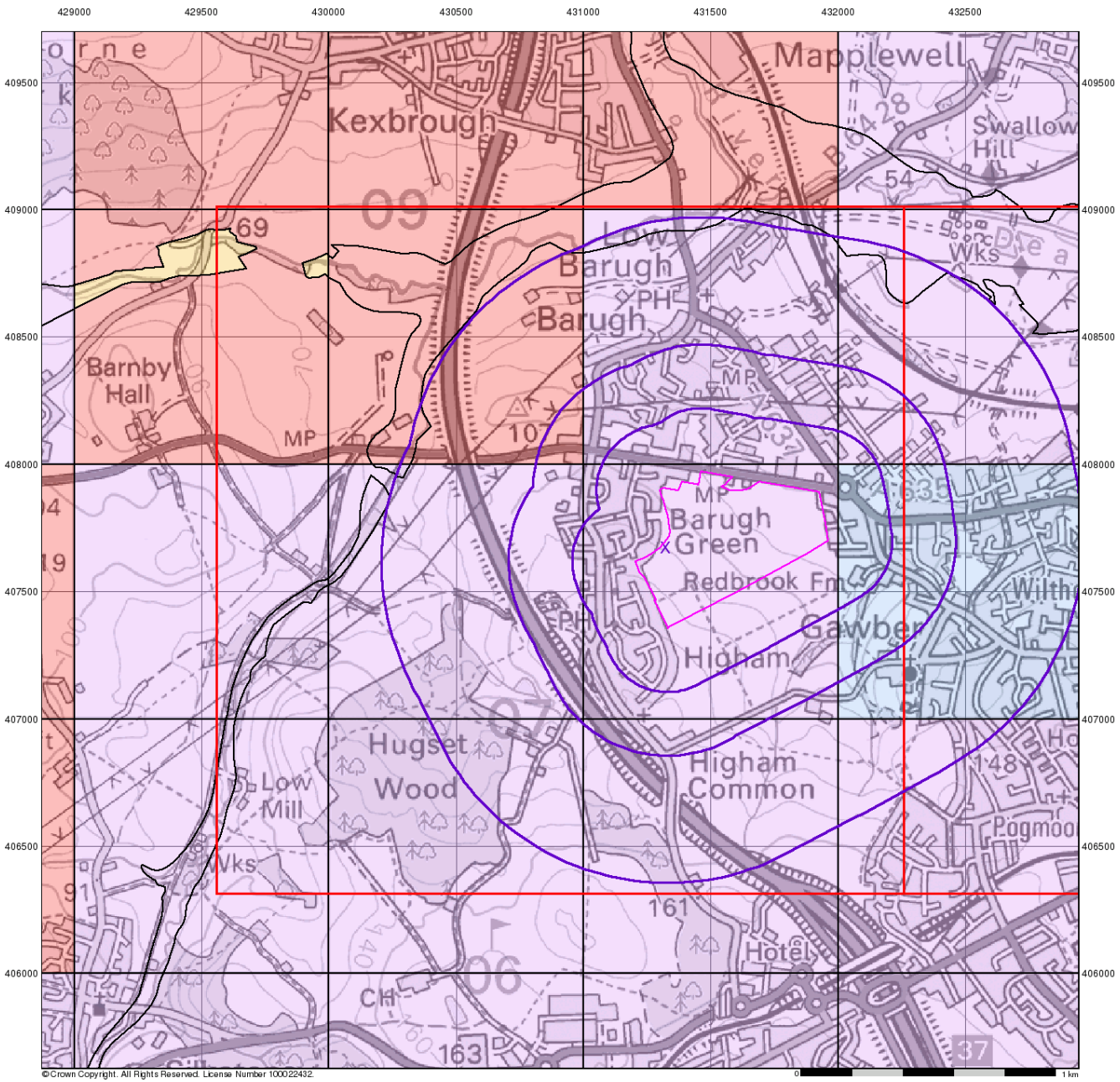

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Groundwater Vulnerability

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

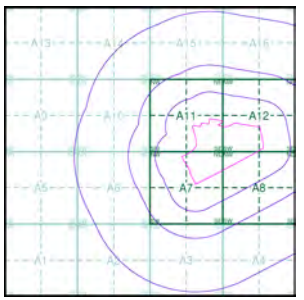
Agency and Hydrological

Bedrock Aquifers	Superficial Aquifers
High Vulnerability, Principal Aquifer	High Vulnerability, Principal Aquifer
High Vulnerability, Secondary Aquifer	High Vulnerability, Secondary Aquifer
Medium Vulnerability, Principal Aquifer	Medium Vulnerability, Principal Aquifer
Medium Vulnerability, Secondary Aquifer	Medium Vulnerability, Secondary Aquifer
Low Vulnerability, Principal Aquifer	Low Vulnerability, Principal Aquifer
Low Vulnerability, Secondary Aquifer	Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



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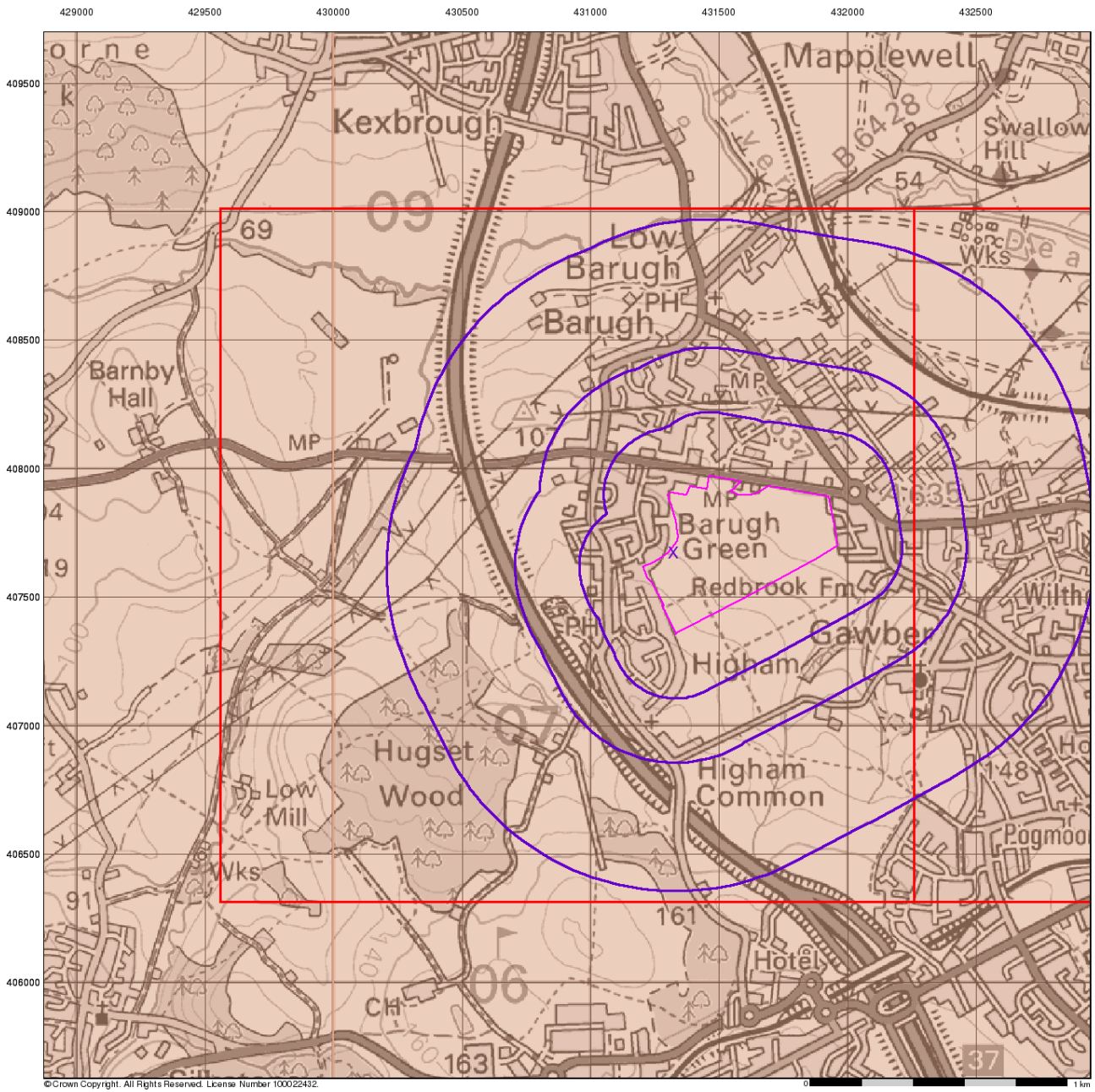

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Bedrock Aquifer Designation

General

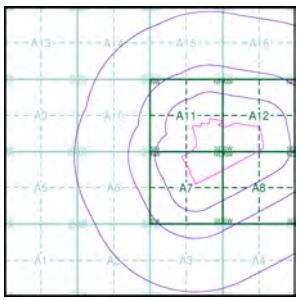
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



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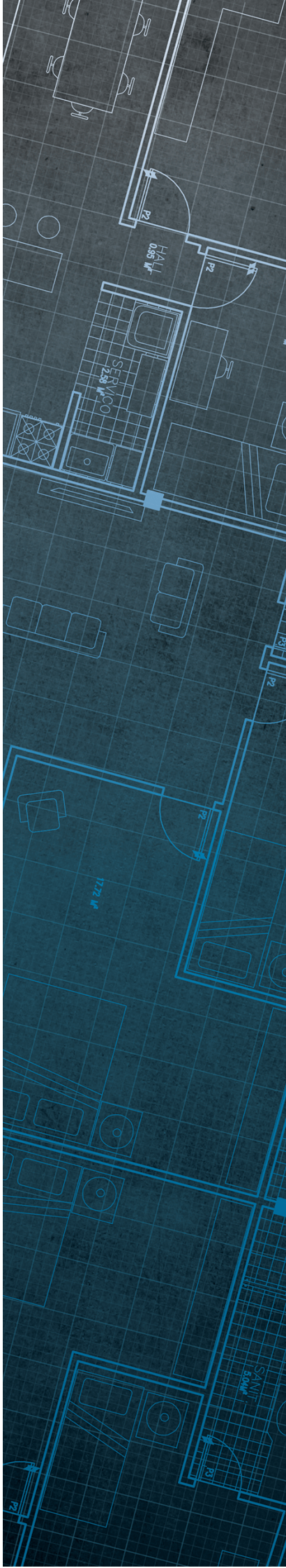
The Coal Authority

Consultants

Coal Mining Report

Barnsley West
South Yorkshire



Date of enquiry:	**28 November 2018**
Date enquiry received:	**28 November 2018**
Issue date:	**28 November 2018**
Our reference:	**51001983537002**
Your reference:	**4848/JBW**

Consultants
Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

JPG (LEEDS) LIMITED

Enquiry address

Barnsley West
South Yorkshire

Approximate position of property

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
POGMOOR	BARNSLEY	Coal	6Z77	6	Beneath Property	4.7	North-East	297	1926
FARMHOUSE LANE	BARNSLEY	Coal	6Z78	11	Beneath Property	2.6	North-East	295	1910
FARMHOUSE LANE	BARNSLEY	Coal	6Z79	16	Beneath Property	2.5	North-East	297	1900
DODWORTH	FLOCKTON THICK	Coal	6NKR	86	Beneath Property	3.8	North-East	68	1958
DODWORTH	FLOCKTON THICK	Coal	6NJR	96	Beneath Property	3.8	North-East	71	1959
DODWORTH	FLOCKTON THICK	Coal	64CW	103	Beneath Property	3.9	North-East	61	1916
DODWORTH	FLOCKTON THICK	Coal	6Z7P	108	Beneath Property	4.5	North-East	70	1915
DODWORTH	FLOCKTON THICK	Coal	6Z6U	110	Beneath Property	4.1	North-East	76	1950
DODWORTH	FLOCKTON THICK	Coal	64CV	127	Beneath Property	5.2	North-East	66	1950
DODWORTH	FLOCKTON THICK	Coal	6Z7Q	127	Beneath Property	3.6	North-East	69	1950
DODWORTH	TOP FENTON	Coal	6NCR	128	Beneath Property	2.7	North-East	79	1943
DODWORTH	TOP FENTON	Coal	6NDR	133	Beneath Property	3.3	East	81	1958
DODWORTH	FLOCKTON THICK	Coal	6NLR	133	Beneath Property	2.8	North-East	70	1952
DODWORTH	TOP FENTON	Coal	64CR	144	Beneath Property	3.9	North-East	74	1910
DODWORTH	FENTON	Coal	6NNT	146	North	3.4	North-East	91	1958
DODWORTH	FLOCKTON THICK	Coal	6Z7R	147	Beneath Property	3.2	North-East	70	1954
DODWORTH	TOP FENTON	Coal	6NER	147	North-East	3.1	North	86	1958
DODWORTH	TOP FENTON	Coal	6Z7S	149	Beneath Property	4.6	North-East	91	1935
DODWORTH	TOP FENTON	Coal	6Z6S	153	Beneath Property	4.7	North-East	81	1935
unnamed	TOP FENTON	Coal	64CQ	159	Beneath Property	3.4	North-East	74	1930
DODWORTH	TOP FENTON	Coal	6Z7U	163	Beneath Property	2.7	South	86	1936
DODWORTH	TOP FENTON	Coal	64CP	170	Beneath Property	5.3	North-West	74	1936

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
DODWORTH	PARKGATE	Coal	64CV	171	Beneath Property	2.2	North-East	137	1950
DODWORTH	PARKGATE	Coal	6Z7X	173	Beneath Property	4.7	North-East	137	1921
DODWORTH	PARKGATE	Coal	6IEF	175	South	3.8	North-East	137	1915
STANHOPE SILKSTONE	SILKSTONE	Coal	6NDS	213	Beneath Property	4.4	North-East	107	1928
DODWORTH	TOP FENTON	Coal	626T	221	North-East	3.8	North-East	185	1930
DODWORTH	SILKSTONE	Coal	6NHS	226	Beneath Property	3.9	North-East	105	1977
STANHOPE SILKSTONE	SILKSTONE	Coal	6NCV	240	North	3.9	North-East	107	1928
HIGHAM	SILKSTONE	Coal	6NES	243	West	3.6	North-East	147	1880
DODWORTH	SILKSTONE	Coal	6Z70	244	Beneath Property	4.3	North-East	105	1971
DODWORTH HIGHAM	SILKSTONE	Coal	64D3	245	Beneath Property	4.1	North-East	147	1891
unnamed	SILKSTONE	Coal	6NFS	246	Beneath Property	4.7	North-East	107	1928
ROB ROYD	SILKSTONE	Coal	6Z80	248	South-West	4.1	North-East	176	1933
unnamed	SILKSTONE	Coal	6I53	251	South-West	3.7	North-East	147	1883
DODWORTH	SILKSTONE	Coal	6Z7Z	255	Beneath Property	2.6	East	105	1944
DODWORTH	SILKSTONE	Coal	6Z7Y	256	Beneath Property	3.8	North-East	147	1893
ROB ROYD	SILKSTONE	Coal	6IEJ	257	South	4.2	North-East	167	1935
unnamed	SILKSTONE	Coal	64D2	260	Beneath Property	3.4	North-East	147	1927
DODWORTH	SILKSTONE	Coal	6NGS	269	North-East	4.0	North-East	105	1979
DODWORTH	SILKSTONE	Coal	6NDW	274	North-East	3.0	North-East	100	1978
WOOLLEY/REDBROOK	WHINMOOR	Coal	64D9	287	Beneath Property	4.1	North-East	107	1965
DODWORTH	SILKSTONE	Coal	4VL6	289	Beneath Property	3.7	North-East	105	1972
WOOLLEY/REDBROOK	WHINMOOR	Coal	Z23A	294	Beneath Property	4.4	North-East	102	1983
WOOLLEY/REDBROOK	WHINMOOR	Coal	6Z72	295	Beneath Property	4.8	North-East	107	1979
WOOLLEY/REDBROOK	WHINMOOR	Coal	Z23A	297	Beneath Property	5.2	North-East	108	1983
WOOLLEY	WHINMOOR	Coal	6NLS	298	Beneath Property	4.3	North-East	107	1979
WOOLLEY	WHINMOOR	Coal	6Z7H	301	Beneath Property	3.8	North-East	109	1969

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
WOOLLEY	WHINMOOR	Coal	6NEV	321	North-East	4.8	North-East	115	1978
WOOLLEY	WHINMOOR	Coal	Z89	326	North-East	5.2	North-East	107	1980
WOOLLEY/REDBROOK	WHINMOOR	Coal	6Z75	343	North-East	4.7	North-East	110	1977
WOOLLEY/REDBROOK	WHINMOOR	Coal	6Z7I	349	North-East	3.3	North-East	105	1976

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

Distance to spine roadway (m)	Direction to spine roadway
Within	N/A

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	431406-002	431771 406978	has probably been removed to some extent by opencast mining	Coal	
Shaft	431406-003	431771 406971	has probably been removed to some extent by opencast mining	Coal	
Shaft	431406-004	431746 406949	has probably been removed to some extent by opencast mining	Coal	
Shaft	431406-005	431840 406925	has probably been removed to some extent by opencast mining	Coal	
Shaft	431406-006	431838 406909	has probably been removed to some extent by opencast mining	Coal	
Shaft	432406-002	432364 406628		Coal	
Adit	432406-011	432302 406721		Coal	
Shaft	432406-012	432423 406995		Coal	
Shaft	432406-013	432452 406972		Coal	
Shaft	432406-014	432413 406745	has probably been removed to some extent by opencast mining	Coal	
Adit	432406-015	432298 406795		Coal	
Adit	432406-016	432305 406777		Coal	
Adit	432406-017	432280 406747		Coal	
Adit	432406-018	432324 406686		Coal	
Adit	432406-019	432349 406680		Coal	
Shaft	432406-020	432507 406628	was not encountered during drilling works undertaken by Abatech prior to development in 2007. We have no record of what steps, if any, have been taken to treat this shaft	Coal	
Shaft	432406-021	432509 406615		Coal	
Shaft	432406-031	432519 406627		Coal	
Shaft	432407-008	432004 407548		Coal	
Shaft	432407-019	432435 407008		Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

12461	NE3	FGB6
7196	7198	NE565
NE1050	SY36	7698

Our records show we have more plans than those shown above which could affect the enquiry boundary.

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
BARNSLEY	Coal	Yes	Within	N/A	12
BARNSLEY	Coal	Yes	Within	N/A	340
DUNSIL	Coal	Yes	Within	N/A	0
DUNSIL	Coal	Yes	Within	N/A	342
SWALLOW WOOD	Coal	Yes	Within	N/A	164
SWALLOW WOOD	Coal	Yes	17.8	South-West	317
TOP HAIGH MOOR	Coal	Yes	49.2	South-West	318
TOP HAIGH MOOR	Coal	Yes	Within	N/A	319

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property recorded.

Opencast mines

Please refer to the “Summary of findings” map (on separate sheet) for details of any opencast areas within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations
None recorded within 50 metres of the enquiry boundary.

Remediated sites
None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence
A damage notice or claim for alleged subsidence damage was made in November 2003 for 1 WHARFEDALE ROAD, BARNSLEY, SOUTH YORKSHIRE, S75 2LJ. However, the claim was rejected.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

There are a further 2 claim(s) within 50 metres of the property boundary that do not match the property address. These are shown on the enquiry boundary plot.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

If further subsidence damage claims information is required, please visit www.groundstability.com.

See Section 4 for further information.

Mine gas
None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes
None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

Section 46 notices
No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices
The property is in an area where notices to withdraw support were given in 1956, 1976, 1977 and 1987.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land
The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Coal mining subsidence

The site is within an area of previous interest. It is close to where the Coal Authority or licensed mine operator has investigated and where necessary remediated issues relating to coal mining subsidence.

The site requires further investigation and may influence your risk assessment. We recommend that you order the appropriate **Coal Authority Subsidence Claims Report**, which will include more information about the hazard.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

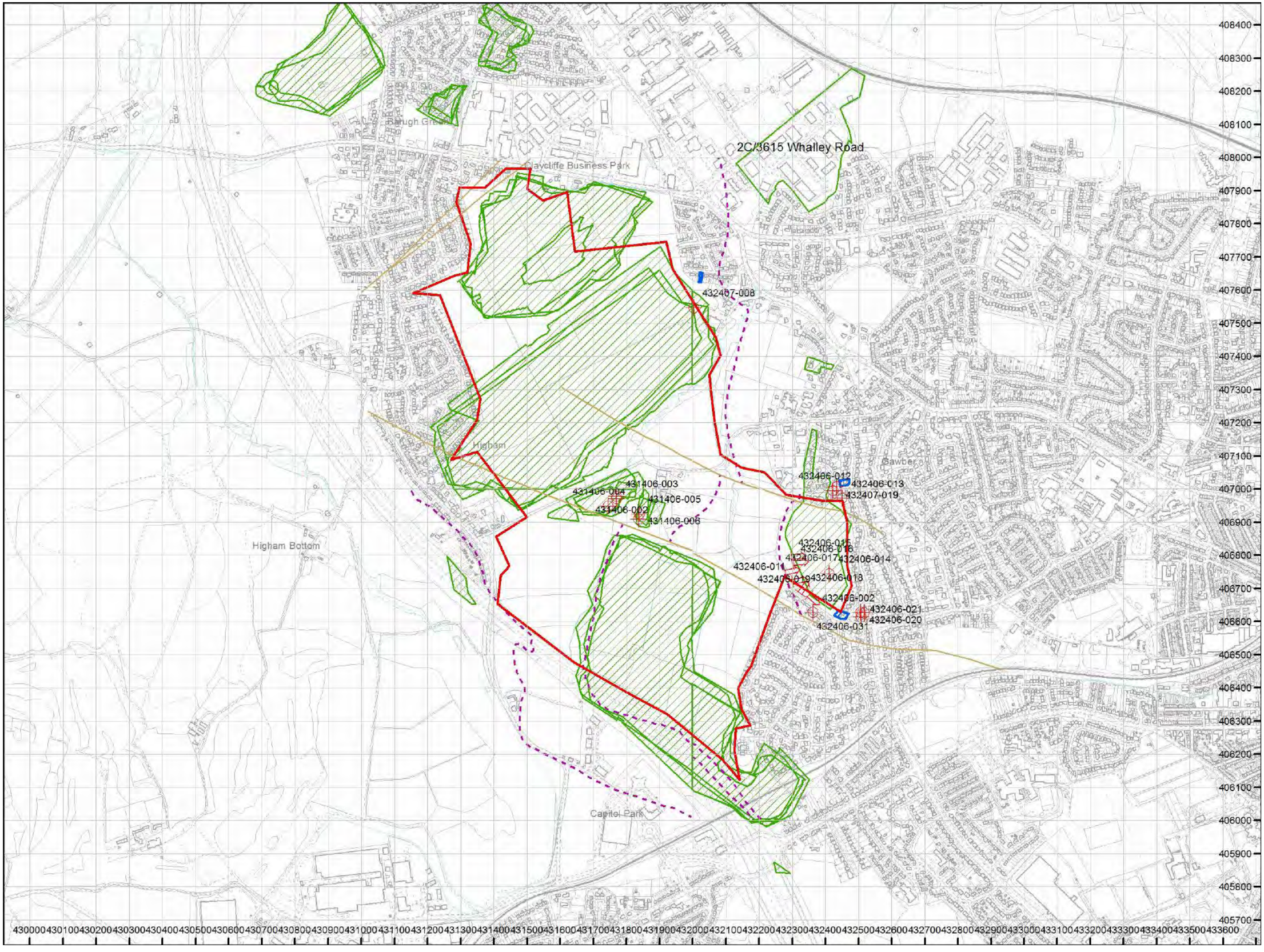
The Coal Authority

Summary of findings

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

- Approximate position of the enquiry boundary shown
- Disused mine shaft
- Disused adit
- Outcrop (Conjectured)
- Geological faults
- Opencast mine licence area
- Unlicensed opencast site
- Coal claim



How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

Appendix F

Trial Pit Logs

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP001
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431247.37 - 407563.50 Level: 117.50	Date 15/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.60	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.20	J&T		0.30	117.20		Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of siltstone and mudstone. (TOPSOIL)
	0.50	D	HVP=79				Firm light brown mottled grey silty CLAY. (COHESIVE RESIDUAL SOIL)
	0.80	D	HVP=126 HVP=109	0.70	116.80		Orangish grey silty clayey angular to subangular fine to coarse GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
	1.40	D&B		1.80	115.70		Firm locally stiff grey mottled orange gravelly silty CLAY. Gravel is angular tabular fine to medium of siltstone and mudstone. (COHESIVE RESIDUAL SOIL) *From 1.8m, clay is too gravelly for accurate hand shear vane test.*
	2.00	D		2.30	115.20		Firm locally stiff bluish grey gravelly silty CLAY. Gravel is subangular medium to coarse of siltstone and mudstone. (COHESIVE RESIDUAL SOIL)
				2.70	114.80		Grey silty clayey angular tabular fine to coarse GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
				3.00	114.50		Weak grey MUDSTONE. Recovered as slightly clayey angular tabular fine to coarse gravel. (COAL MEASURES)
				3.60	113.90		End of pit at 3.60 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP002
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431265.17 - 407528.75 Level: 118.65	Date 18/11/2021
Location: South Yorkshire		Dimensions (m): Depth 2.90; 3 × 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.30	118.35		MADE GROUND: Greyish brown slightly sandy slightly gravelly CLAY. Gravel is subangular fine of mudstone. Occasional rootlets and plant fragments. (MADE GROUND TOPSOIL)
	0.50	D		0.60	118.05		Firm light brown gravelly CLAY. Gravel is angular to subrounded fine of mudstone and ironstone nodules. (COHESIVE RESIDUAL SOIL)
	1.00	D&B		1.80	116.85		Grey slightly clayey subangular tabular medium GRAVEL of mudstone. With relict bedding planes throughout. (GRANULAR RESIDUAL SOIL) *At 0.7m, terracotta land drain.*
	2.00	D		2.60	116.05		Stiff light brown mottled grey CLAY. (COHESIVE RESIDUAL SOIL)
				2.90	115.75		Moderately weak grey MUDSTONE. Recovered a slightly clayey angular tabular medium to coarse gravel. (COAL MEASURES) End of pit at 2.90 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP003
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431265.72 - 407571.69 Level: 116.30	Date 15/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.80, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	116.00		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular to subrounded fine to coarse of mudstone and siltstone. (MADE GROUND TOPSOIL)
	0.50	D	HVP=68	0.50	115.80		MADE GROUND: Firm orange mottled grey gravelly silty CLAY. Gravel is angular to subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
	0.80	D&B					MADE GROUND: Orangish brown very gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone siltstone ironstone and rare coal. (COHESIVE OPENCAST BACKFILL)
							At 0.9m, boulder of ironstone measuring 0.4m x 0.15m x 0.3m.
				1.00	115.30		MADE GROUND: Orangish brown slightly clayey silty angular to subangular tabular fine to medium GRAVEL of mudstone siltstone and ironstone. (GRANULAR OPENCAST BACKFILL)
				1.80	114.50		Orangish grey silty/clayey angular to subangular fine to medium GRAVEL of siltstone. (GRANULAR RESIDUAL SOIL)
	2.70	D		2.40	113.90		Blueish grey silty clayey angular tabular fine to medium GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
				3.60	112.70		Weak grey MUDSTONE. Recovered as slightly clayey angular fine to medium gravel. (COAL MEASURES)
				3.80	112.50		End of pit at 3.80 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP004
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431286.20 - 407492.87 Level: 119.75	Date 18/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.00	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	D&B		0.30	119.45		MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is angular tabular fine of mudstone and rare pottery and coal. Occasional rootlets and plant fragments. (MADE GROUND TOPSOIL)
	0.50	J&T					MADE GROUND: Brown and grey gravelly CLAY. Gravel is subangular fine to coarse of mudstone. Medium subangular mudstone cobble content. (COHESIVE OPENCAST BACKFILL)
	1.80	D		1.80	117.95		Stiff brownish grey very gravelly CLAY. Gravel is angular tabular fine of mudstone lithorelicts. (COHESIVE RESIDUAL SOIL)
	2.90	D		2.70	117.05		Weak grey thickly laminated MUDSTONE. Recovered as slightly clayey angular tabular fine to medium gravel. (COAL MEASURES)
				3.00	116.75		End of pit at 3.00 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP005**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431298.56 - 407522.74 Level: 117.75	Date 18/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 2.80	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown slightly sandy slightly gravelly CLAY. Gravel is angular tabular fine to medium of mudstone. Occasional rootlets. (MADE GROUND TOPSOIL)
				0.30	117.45		
	0.40	J&T					MADE GROUND: Light brown slightly gravelly CLAY. Gravel is angular tabular fine of mudstone. (COHESIVE MADE GROUND)
				0.50	117.25		*Between 0.4m and 1.5m, overbreak and spalling.*
	0.80	J&T					MADE GROUND: Grey slightly clayey sandy fine to coarse GRAVEL of mudstone. High angular mudstone cobble content. (GRANULAR OPENCAST BACKFILL)
	1.00	D&B					*At 1.1m, bed of fine greyish brown clay.*
				1.60	116.15		Stiff brown gravelly CLAY. Gravel is angular tabular fine to medium of mudstone lithorelicts. (COHESIVE RESIDUAL SOIL)
				2.80	114.95		End of pit at 2.80 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP006**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: - Level:	Date 15/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.90	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.20	J&T	HVP=71	0.30			MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
							MADE GROUND: Firm locally stiff orangish brown gravelly silty CLAY. Gravel is angular to subangular fine to medium of siltstone and mudstone. (COHESIVE MADE GROUND)
							Below 0.4m, clay is too gravelly for accurate hand shear vane test.
	0.80	D					*At 0.8m, multiple boulders of subangular mudstone, the largest measuring 0.6m x 0.4m x 0.4m.*
							At 1.0m, a mudstone boulder creating a major obstruction of approximately 1.0m length in pit. Cannot excavate through or move without major overbreak of pit sidewall.
							At 1.4m, boulder of subangular mudstone measuring 0.45m x 0.5m x 0.5m.
				1.90			Stiff grey mottled orange gravelly slightly sandy CLAY. Gravel is angular tabular fine to medium of mudstone siltstone and ironstone. (COHESIVE OPENCAST BACKFILL)
			HVP=128				
	2.40	D					
				2.60			Stiff grey gravelly silty CLAY. Gravel is angular tabular fine to medium of mudstone. (COHESIVE RESIDUAL SOIL)
				3.60			Grey slightly clayey angular tabular fine to coarse GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
				3.80			Weak grey MUDSTONE. Recovered as slightly clayey angular tabular fine to medium GRAVEL. (COAL MEASURES)
				3.90			*At 3.9m, it is difficult to excavate further.*
							End of pit at 3.90 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP007**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431294.97 - 407595.57 Level: 113.75	Date 15/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.20, 0.6 x 3	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	D&B					MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular to subrounded fine to medium of mixed lithologies. (MADE GROUND TOPSOIL)
				0.30	113.45		
	0.40	D	HVP=88				MADE GROUND: Firm orange mottled grey gravelly silty CLAY. Gravel is subangular to subrounded fine to medium of siltstone mudstone and ironstone. (COHESIVE MADE GROUND)
				0.50	113.25		MADE GROUND: Bluish grey silty clayey angular tabular fine to coarse GRAVEL of mudstone. (GRANULAR OPENCAST BACKFILL) *At 0.8m, dry terracotta land drain running north to south.*
	0.90	J&T					
	1.00	B					
	1.00	D					
				1.50	112.25		MADE GROUND: Brownish grey silty clayey angular tabular fine to coarse GRAVEL of mudstone and ironstone. (GRANULAR OPENCAST BACKFILL) *At 1.8m, groundwater inflow.*
▼	1.80	B					
	1.80	D					
				2.20	111.55		MADE GROUND: Stiff grey mottled orange gravelly silty CLAY with rare subangular siltstone cobbles. Gravel is angular fine to medium of siltstone and mudstone. (COHESIVE OPENCAST BACKFILL) *At 2.2m, mudstone boulder encountered measuring 0.6m x 0.3m x 0.3m.*
				2.80	110.95		Stiff grey gravelly silty CLAY. Gravel is angular tabular fine to coarse of mudstone. (COHESIVE RESIDUAL SOIL)
				3.10	110.65		
				3.20	110.55		Weak grey MUDSTONE. Recovered as angular tabular fine to medium GRAVEL. (COAL MEASURES)
							End of pit at 3.20 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent at 1.8m during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable between 0.0m and 1.8m depth during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP008
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431260.39 - 407606.09 Level: 114.20	Date 15/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.00	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.20	J&T	HVP=84	0.30	113.90		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is angular tabular fine to medium of mudstone and siltstone. (MADE GROUND TOPSOIL)
	0.80	D		0.70	113.50		MADE GROUND: Firm orange mottled grey gravelly silty CLAY. Gravel is angular tabular fine to medium of siltstone and mudstone. (COHESIVE MADE GROUND)
	1.40	D	HVP=130	1.30	112.90		MADE GROUND: Bluish grey silty clayey angular tabular fine to coarse GRAVEL of mudstone. (GRANULAR OPENCAST BACKFILL)
	2.80	D		1.80	112.40		MADE GROUND: Stiff grey mottled orange gravelly silty CLAY. Gravel is angular tabular fine to coarse of mudstone and siltstone. (COHESIVE OPENCAST BACKFILL)
				2.70	111.50		Stiff grey gravelly silty CLAY. Gravel is angular to subangular tabular fine to medium of mudstone and ironstone. (COHESIVE RESIDUAL SOIL)
				3.00	111.20		Weak grey MUDSTONE. Recovered as angular tabular fine to medium gravel. (COAL MEASURES)
							End of pit at 3.00 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP009
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431284.94 - 407632.31 Level: 111.45	Date 16/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.00	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	111.15		Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone and siltstone. (TOPSOIL)
	0.50	D	HVP=104 HVP=141				Firm locally stiff orange mottled grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone siltstone and ironstone. (COHESIVE RESIDUAL SOIL)
	0.90	D	HVP=110				*At 0.9m, dry terracotta land drain running north to south.*
			HVP=132				*At 1.2m, clay is gravelly.*
							From 1.4m, clay is grey with slight orange mottling.
	1.60	D	HVP=115				
				1.90	109.55		Brown and grey clayey angular tabular fine to coarse GRAVEL of siltstone. (GRANULAR RESIDUAL SOIL)
				2.10	109.35		Extremely weak black vitreous COAL. Recovered as angular fine to medium gravel. (THIN COAL)
	2.20	D					
				2.40	109.05		Firm orange and grey gravelly sandy CLAY. Gravel is subangular fine to medium of mudstone. (SEAT EARTH)
							From 2.4m, clay is too gravelly for accurate hand shear vane test.
				2.90	108.55		Grey angular tabular fine to medium GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
				3.00	108.45		End of pit at 3.00 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP010**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431316.57 - 407661.72 Level: 108.20	Date 16/11/2021
Location: South Yorkshire		Dimensions (m): Depth 2.60, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.20	J&T		0.30	107.90		Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine of mudstone and siltstone. (TOPSOIL)
			HVP=123				Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of ironstone mudstone and siltstone. (COHESIVE RESIDUAL SOIL)
			HVP=139				
			HVP=123				*From 0.8m to 1.5m, no blocks arising to undertake hand shear vane tests.*
	1.00	D					
	1.50	D		1.50	106.70		Grey and orange silty clayey angular tabular fine to coarse GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
				2.50	105.70		Weak grey MUDSTONE. Recovered as angular tabular fine to coarse gravel. (COAL MEASURES)
				2.60	105.60		*At 2.5m, bright orange staining on gravel arisings.* End of pit at 2.60 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP011**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431343.17 - 407688.85 Level: 105.45	Date 16/11/2021
Location: South Yorkshire		Dimensions (m): Depth 4.10, 3 x 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
▼				0.30	105.15		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is angular to subangular fine to medium of siltstone and mudstone. (MADE GROUND TOPSOIL)
			HVP=112				MADE GROUND: Stiff orange mottled grey gravelly silty CLAY. Gravel is angular tabular fine to coarse of mudstone and siltstone. (COHESIVE MADE GROUND) *At 0.3m, groundwater seepage below topsoil.*
	0.90	D	HVP=96				
				1.50	103.95		MADE GROUND: Grey slightly clayey angular tabular fine to coarse GRAVEL of mudstone. High angular mudstone cobble content. (GRANULAR OPENCAST BACKFILL) *From 1.5m to 4.1m, spalling of sidewall.*
	1.80 1.80	D T					
	2.00	D&B					*At 2.0m, mudstone boulder encountered measuring 0.5m x 0.6m x 0.1m.*
				4.10	101.35		End of pit at 4.10 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent at 0.3m during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable between 1.5m and 4.1m depth during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP012
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431353.64 - 407652.81 Level: 107.25	Date 16/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.20	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10 0.10	B J&T					MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone and siltstone. (MADE GROUND TOPSOIL)
			HVP=152	0.30	106.95		MADE GROUND: Firm locally stiff orange mottled grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone and siltstone. (COHESIVE MADE GROUND)
	0.80	J&T		0.60	106.65		MADE GROUND: Stiff grey very gravelly silty CLAY. Gravel is angular to subangular fine to medium of mudstone siltstone coal and ironstone. (COHESIVE OPENCAST BACKFILL) *Below 0.6m, clay is too gravelly to undertake accurate hand shear vane test.*
							At 1.6m, two subangular mudstone boulders, 0.5m x 0.5m x 0.3m and 0.6m x 0.4m x 0.2m.
	2.40	D					*At 2.8m, clay is yellowish grey.*
				3.20	104.05		End of pit at 3.20 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP013
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431323.47 - 407620.97 Level: 110.65	Date 16/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.50	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	110.35		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of siltstone mudstone and rare coal. (MADE GROUND TOPSOIL)
			HVP=113	0.70	109.95		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone and siltstone. (COHESIVE MADE GROUND)
	0.90	D&B					MADE GROUND: Grey silty clayey angular to subrounded fine to coarse GRAVEL of mudstone. High angular mudstone cobble and small boulder content. (GRANULAR OPENCAST BACKFILL) *From 0.7m, multiple mudstone boulders, the largest measuring 0.4m x 0.4m x 0.1m.*
	1.90	D		1.80	108.85		MADE GROUND: Stiff orange and grey gravelly silty CLAY. Gravel is subangular to subrounded fine to medium of mudstone, siltstone and coal. (COHESIVE OPENCAST BACKFILL) *At 2.8m, clay contains a lens of interbedded black ashy silty clay of approximately 0.5m width and 0.2m.*
				3.50	107.15		End of pit at 3.50 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP014**

Sheet 1 of 1

Project Name:	Barnsley West (LT1)	Project No. 3104	Co-ords: 431334.95 - 407587.91 Level: 112.20
Location:	South Yorkshire	Dimensions (m): Depth 3.90	3 / 0.6
Client:	Strata Homes		

Date 16/11/2021

Scale 1:25

Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	111.90		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of siltstone and mudstone. (MADE GROUND TOPSOIL)
	0.40	D		0.60	111.60		MADE GROUND: Stiff locally firm orange mottled grey slightly gravelly CLAY. Gravel is subangular fine to medium of siltstone and mudstone. (COHESIVE MADE GROUND)
				1.00	111.20		MADE GROUND: Grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone. Medium angular mudstone cobble content. (COHESIVE OPENCAST BACKFILL) *Below 0.6m, clay is too gravelly to undertake accurate hand shear vane test.* *From 0.6m, major overbreak of sidewalls due to excavation of oversize material.*
				2.00	110.20		MADE GROUND: Grey silty/clayey angular to subangular GRAVEL of mudstone. High angular mudstone cobble and small boulder content. (GRANULAR OPENCAST BACKFILL) *From 1.0m, high cobble content of angular mudstone.* *At 1.2m, multiple boulders of mudstone, the largest measuring 0.7m x 0.4m x 0.2m.*
	2.20	D					MADE GROUND: Stiff greyish brown gravelly silty CLAY. Gravel is angular to subangular fine to medium of mudstone siltstone and coal. (COHESIVE OPENCAST BACKFILL) *From 0.6m to 2.0m, spalling of sidewalls.*
				3.00	109.20		*At 2.8m, clay contains a lens of interbedded black ashy silty clay of approximately 0.5m width and 0.2m.*
	3.20	D&B	HVP=123				MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of siltstone mudstone and ironstone. (COHESIVE OPENCAST BACKFILL)
				3.80	108.40		
				3.90	108.30		MADE GROUND: Grey slightly silty angular to subangular fine to medium GRAVEL of mudstone. (GRANULAR OPENCAST BACKFILL) End of pit at 3.90 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable between 0.6m and 2.0m depth during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP015**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431361.36 - 407610.31 Level: 109.70	Date 16/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.50	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.20 0.20	B J&T		0.30	109.40		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone and siltstone. (MADE GROUND TOPSOIL)
				0.50	109.20		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone, siltstone and rare brick. (COHESIVE MADE GROUND)
	0.80	J&T					MADE GROUND: Greyish brown silty clayey and to subangular fine to medium GRAVEL of mudstone and siltstone. (GRANULAR OPENCAST BACKFILL)
							At 1.5m, mudstone boulder encountered measuring 0.5m x 0.5m x 0.1m.
				1.80	107.90		MADE GROUND: Grey slightly silty angular to subangular fine to coarse GRAVEL of mudstone and siltstone. (GRANULAR OPENCAST BACKFILL)
▼				3.30	106.40		MADE GROUND: Stiff greyish brown gravelly silty CLAY. Gravel is angular to subangular fine to medium of mixed lithologies including siltstone, mudstone and coal. (COHESIVE OPENCAST BACKFILL)
	3.50	D&B		3.50	106.20		*At 3.3m, groundwater inflow.*
							End of pit at 3.50 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent at 3.3 during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP016
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431371.71 - 407570.89 Level: 111.60	Date 16/11/2021
Location: South Yorkshire		Dimensions (m): Depth 2.80, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	111.30		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is angular to subangular fine to medium of siltstone and mudstone. (MADE GROUND TOPSOIL)
			HVP=119	0.60	111.00		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to medium of siltstone and mudstone. (COHESIVE MADE GROUND)
	0.80 0.80	B J&T					MADE GROUND: Grey silty clayey angular to subangular fine to coarse GRAVEL of siltstone and mudstone with a medium cobble content of angular mudstone. (GRANULAR OPENCAST BACKFILL) *At 0.7m, dry terracotta land drain running North to South.*
				1.20	110.40		MADE GROUND: Greyish brown very clayey angular to subangular fine to coarse GRAVEL of mudstone siltstone and rare coal. Medium cobble content of subangular mudstone. (GRANULAR OPENCAST BACKFILL) *At 1.3m, mudstone boulder encountered measuring 0.5m x 0.4m x 0.25m.*
	1.40	D&B					*At 2.3m, mudstone boulder encountered measuring 0.8m x 0.6m x 0.3m.*
				2.80	108.80		*At 2.8m, cannot excavate further due to high boulder content at base of pit.* End of pit at 2.80 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP017**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431345.36 - 407548.77 Level: 114.30	Date 18/11/2021
Location: South Yorkshire		Dimensions (m): Depth 2.50; 3 × 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	D&B					MADE GROUND: Greyish brown slightly sandy slightly gravelly CLAY. Gravel is angular tabular fine of mudstone. Occasional rootlets. (MADE GROUND TOPSOIL)
				0.40	113.90		
	0.50	D					MADE GROUND: Stiff light brown mottled grey slightly gravelly CLAY. Gravel is angular to subangular fine to medium of mudstone and occasional siltstone. (COHESIVE RESIDUAL SOIL)
	0.70	J&T		0.60	113.70		MADE GROUND: Grey very gravelly slightly sandy CLAY. Gravel is angular to subangular fine to coarse of mudstone, occasional siltstone and rare bricks. High subangular mudstone and siltstone cobble content. (COHESIVE OPENCAST BACKFILL)
	1.00	D&B					
				1.40	112.90		MADE GROUND: COARSE SOIL: Grey subangular COBBLES and small BOULDERS of mudstone and occasional siltstone. With much fine content of clayey sandy angular to subangular fine to coarse gravel of mudstone. (GRANULAR OPENCAST BACKFILL)
							From 1.4m, hard to dig with overbreak of trial pit walls.
							From 2.2m, with boulders up to 0.6m diameter.
				2.50	111.80		End of pit at 2.50 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP018
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431395.72 - 407550.76 Level: 111.35	Date 16/11/2021
Location: South Yorkshire		Dimensions (m): Depth 2.30, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone and siltstone. (MADE GROUND TOPSOIL)
				0.30	111.05		MADE GROUND: Stiff orangish brown mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone and siltstone. (COHESIVE MADE GROUND)
	0.60	D&B		0.50	110.85		MADE GROUND: Stiff grey gravelly silty CLAY. Gravel is angular to subangular tabular fine to coarse of mudstone and siltstone. (COHESIVE OPENCAST BACKFILL)
	0.70	J&T					*Below 0.5m, clay is too gravelly for accurate hand shear vane tests.*
				1.20	110.15		MADE GROUND: Grey silty/clayey angular to subangular tabular GRAVEL of mudstone. Low cobble content of angular mudstone. (GRANULAR OPENCAST BACKFILL)
							From 1.8m, high cobble content of angular mudstone.
							At 2.0m, mudstone boulder encountered measuring 0.6m x 0.3m x 0.2m.
							At 2.3m, unable to excavate further due to mudstone boulders at the base of pit.
				2.30	109.05		End of pit at 2.30 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP019**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431380.27 - 407521.74 Level: 113.70	Date 18/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.00; 3 × 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown silty CLAY. occasional rootlets and plant fragments. (MADE GROUND TOPSOIL)
	0.30	J&T		0.25	113.45		MADE GROUND: Light brown mottled grey slightly gravelly CLAY. Gravel is angular tabular fine of mudstone. (COHESIVE MADE GROUND)
				0.45	113.25		MADE GROUND: Grey very gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone. Low angular to subangular mudstone cobble content. (COHESIVE OPENCAST BACKFILL)
	0.70	J&T					
				1.50	112.20		MADE GROUND: COARSE SOIL: Grey subangular mudstone COBBLES with many subangular small boulders of mudstone and occasional siltstone. With much finer material of slightly clayey subangular fine to coarse gravel of mudstone. (GRANULAR OPENCAST BACKFILL)
							From 1.6m, overbreak.
				2.40	111.30		MADE GROUND: Stiff light brown CLAY. (COHESIVE OPENCAST BACKFILL)
▼	2.60	D					*At 2.6m, groundwater seepage.*
				3.00	110.70		End of pit at 3.00 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent at 2.6m during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable from 1.1m depth during excavation with some overbreak in the granular strata.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP020
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431349.22 - 407502.65 Level: 116.30	Date 18/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 2.40	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown slightly sandy slightly gravelly SILT. Gravel is subangular fine of mudstone and occasional siltstone. Occasional rootlets. (MADE GROUND TOPSOIL)
				0.30	116.00		
	0.40	D&B					MADE GROUND: Light brown mottled brown and grey gravelly CLAY. Gravel is angular to subangular fine to coarse of siltstone, mudstone and rare pottery. (COHESIVE MADE GROUND)
				0.50	115.80		
	0.70	J&T					MADE GROUND: Grey very gravelly CLAY. Gavel is angular to subangular fine to coarse of mudstone and are coal and pottery. High angular to subangular mudstone cobble content (COHESIVE OPENCAST BACKFILL)
	0.90	D&B					
							From 1.7m,. High subangular mudstone boulder content. Hard to dig and overbreak.
							At 2.0m, large mudstone boulder.
				2.40	113.90		End of pit at 2.40 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

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Trial Pit Log

Trialpit No **TP021**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431384.19 - 407479.79 Level: 115.60	Date 16/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.10	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	115.30		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone and siltstone. (MADE GROUND TOPSOIL)
	0.40	D	HVP=96	0.50	115.10		MADE GROUND: Firm locally stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone ironstone and siltstone. (COHESIVE MADE GROUND)
	0.60	D					MADE GROUND: Stiff blackish brown gravelly silty CLAY. Gravel is angular to subangular fine to medium of mudstone and rare coal. (COHESIVE OPENCAST BACKFILL)
	0.60	J&T	HVP=122	1.00	114.60		MADE GROUND: Grey silty clayey angular to subangular fine to coarse GRAVEL of mudstone and siltstone. Medium cobble content of subangular mudstone. Medium subangular small to medium mudstone boulders. (GRANULAR OPENCAST BACKFILL)
	1.30	J&T					*From 1.0m to 2.0m, major overbreak of sidewall.* *From 1.2m to 2.0m, multiple mudstone boulders encountered, the largest measuring 0.8m x 0.5m x 0.3m.*
	2.10	D		2.00	113.60		Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subrounded fine of mudstone. (COHESIVE RESIDUAL SOIL)
	3.10	D		3.00 3.10	112.60 112.50		Weak grey MUDSTONE. Recovered as slightly clayey angular tabular gravel of mudstone and ironstone. (COAL MEASURES)
							End of pit at 3.10 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable between 1.0m and 2.0m depth during excavation.

AGS

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Trial Pit Log

Trialpit No
TP022
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431419.74 - 407453.74 Level: 115.15	Date 16/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 2.60	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	114.85		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone and siltstone. (MADE GROUND TOPSOIL)
				0.40	114.75		MADE GROUND: Firm orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of siltstone and mudstone. (COHESIVE MADE GROUND)
	0.50	D&B					*From 0.3m to 0.4m, clay is too gravelly to undertake accurate hand shear vane test.*
	0.60	J&T					MADE GROUND: Firm locally stiff greyish brown gravelly silty CLAY. Gravel is angular to subangular fine to medium of mudstone siltstone and rare coal and brick. (COHESIVE OPENCAST BACKFILL)
							At 1.2m, fragment of wood contained in arisings.
				1.30	113.85		Stiff bluish grey silty CLAY. (COHESIVE RESIDUAL SOIL)
	1.50	D					*From 1.3m to 1.6m, no suitable blocks arising to undertaken hand shear vane test.*
				1.60	113.55		Brownish grey silty angular tabular fine to medium GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
				1.80	113.35		Extremely weak black vitreous COAL. Recovered as angular fine to medium gravel. (THIN COAL)
	1.90	T					
				2.20	112.95		Light grey slightly clayey subangular fine to medium GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
	2.30	D&B					
				2.50	112.65		Grey silty angular tabular fine to medium GRAVEL of siltstone. (GRANULAR RESIDUAL SOIL)
				2.60	112.55		End of pit at 2.60 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

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Trial Pit Log

Trialpit No
TP023
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431363.93 - 407442.02 Level: 118.70	Date 17/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.30	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.30	118.40		MADE GROUND: Light grey silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone and siltstone. (MADE GROUND TOPSOIL)
			HVP=97	1.00	117.70		MADE GROUND: Firm locally stiff orange mottled grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone and siltstone. (COHESIVE MADE GROUND) *At 0.6m, some local black staining to clay.*
	1.20	J&T					MADE GROUND: Firm locally stiff grey gravelly silty CLAY. Gravel is subangular fine to coarse of mudstone. Low cobble content of subangular mudstone. (COHESIVE OPENCAST BACKFILL)
	1.30	D&B		1.40	117.30		*At 1.2m, subangular mudstone boulder encountered measuring 0.6m x 0.5m x 0.2m.* *From 1.3m, high cobble content of subangular mudstone.*
	1.70	D	HVP=141				Stiff grey mottled orange silty CLAY with rare subangular fine to medium gravel of mudstone lithorelicts. (COHESIVE RESIDUAL SOIL) *At 1.4m, whole red brick encountered.* *At 1.4m, mudstone boulder in northernmost metre of pit. Cannot excavate beyond.*
				2.30	116.40		*From 2.2m, clay is gravelly of angular fine to medium mudstone.* Grey clayey angular fine to medium GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
				3.00	115.70		Moderately weak grey MUDSTONE. Recovered as angular tabular medium to coarse gravel. Low cobble content of angular mudstone. (COAL MEASURES)
				3.30	115.40		End of pit at 3.30 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP024
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431328.24 - 407413.05 Level: 122.45	Date 17/11/2021
Location: South Yorkshire		Dimensions (m): 3 x 0.6, Depth 3.30	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	122.15		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone and siltstone with rare coal. (MADE GROUND TOPSOIL)
				0.40	122.05		MADE GROUND: Firm to stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
	0.60	D&B					MADE GROUND: Firm greyish brown very gravelly silty CLAY. Medium cobble content of angular mudstone. Gravel is angular to subangular fine to coarse of mudstone siltstone and coal. (COHESIVE OPENCAST BACKFILL)
							At 0.5m, dry terracotta land drain orientated east to west.
							At 1.2m, mudstone boulder encountered measuring 0.3m x 0.2m x 0.1m.
	1.70	D					*At 1.6m, mudstone boulder encountered measuring 0.3m x 0.3m x 0.1m.*
				2.00	120.45		
	2.10	D	HVP=107				Stiff locally firm orange mottled grey silty CLAY. (COHESIVE RESIDUAL SOIL)
				2.50	119.95		Grey slightly clayey angular to subangular fine to coarse GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
				3.20	119.25		
				3.30	119.15		Moderately weak grey MUDSTONE. Recovered as slightly clayey angular to subangular fine to medium gravel. (COAL MEASURES)
							End of pit at 3.30 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP025
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431305.85 - 407444.00 Level: 121.85	Date 18/11/2021
Location: South Yorkshire		Dimensions (m): Depth 4.20, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
▼	0.20 0.20	B J&T	HVP=90	0.30	121.55		MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is subangular fine to medium of siltstone mudstone and rare coal. (MADE GROUND TOPSOIL)
	0.50	J&T		0.40	121.45		MADE GROUND: Firm orange mottled grey silty slightly gravelly CLAY. Gravel is subangular to subrounded medium of mudstone and siltstone. (COHESIVE MADE GROUND) *At 0.3m, groundwater seepage.*
							MADE GROUND: Stiff locally firm greyish brown gravelly silty CLAY. Gravel is subangular to subrounded of predominantly mudstone with rare ironstone and coal. (COHESIVE OPENCAST BACKFILL) *From 0.4m, clay is too gravelly to undertake accurate hand shear vane test.* *At 0.6m, rounded ironstone cobble encountered measuring 0.25m diameter.*
				1.70	120.15		MADE GROUND: Greyish brown clayey angular to subangular fine to coarse GRAVEL of mudstone and siltstone. High cobble content of subangular mudstone. (GRANULAR OPENCAST BACKFILL) *From 1.7m to 2.3m, some overbreak of trial pit sidewall.* *At 1.9m, mudstone boulder, 1.0m x 0.6m x 0.4m.*
	2.40	D	HVP=131	2.30	119.55		Stiff orange mottled grey silty CLAY. (COHESIVE RESIDUAL SOIL) *From 2.5m, clay becomes gravelly with angular to subangular fine to medium mudstone lithorelicts.*
	3.80	D		3.10	118.75		Grey and orange clayey subangular fine to medium GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
				4.20	117.65		End of pit at 4.20 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent at 0.3m during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

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Trial Pit Log

Trialpit No
TP026
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431339.61 - 407468.91 Level: 118.55	Date 18/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.30	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	118.25		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
				0.40	118.15		MADE GROUND: Firm orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
	0.50	D					
	0.50	J&T					
				0.80	117.75		MADE GROUND: Firm brownish grey silty slightly gravelly CLAY. Gravel is subangular to subrounded fine to medium of mudstone and rare ironstone. (COHESIVE OPENCAST BACKFILL) *From 0.4m to 0.8m, clay is too gravelly to undertake accurate hand shear vane test.*
	0.90	B					MADE GROUND: Grey silty clayey angular to subangular fine to coarse GRAVEL of mudstone. Low cobble content of angular mudstone. (GRANULAR OPENCAST BACKFILL) *At 1.1m, frequent mudstone boulders, the largest measuring 0.8m x 0.3m x 0.2m.* *At 1.2m, cobble content increase to high of angular mudstone.*
				1.80	116.75		
				1.90	116.65		Firm grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone lithorelicts. (COHESIVE RESIDUAL SOIL)
	2.00	D					
				2.10	116.45		Extremely weak black vitreous COAL. Recovered as angular fine to medium gravel. (THIN COAL)
				2.40	116.15		Firm to stiff grey gravelly silty CLAY. Gravel is subangular fine to medium of mudstone. (SEAT EARTH)
	2.60	D	HVP=130				Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine of mudstone. (COHESIVE RESIDUAL SOIL) *From 2.6m, clay is gravelly of angular fine to coarse mudstone.*
				2.90	115.65		Orange and grey clayey angular fine to coarse GRAVEL of mudstone and rare ironstone. (GRANULAR RESIDUAL SOIL)
				3.20	115.35		
	3.30	D		3.30	115.25		Stiff brown mottled grey silty slightly gravelly CLAY. Gravel is subangular fine of mudstone lithorelicts. (COHESIVE RESIDUAL SOIL)
							End of pit at 3.30 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP027
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431469.84 - 407487.03 Level: 110.10	Date 18/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.40	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.20	J&T		0.30	109.80		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
			HVP=100	0.60	109.50		MADE GROUND: Stiff orangish brown mottled grey silty slightly gravelly CLAY. Gravel is fine to medium of mudstone. (COHESIVE MADE GROUND)
	0.80	J&T					MADE GROUND: Firm bluish grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone and ironstone. (COHESIVE OPENCAST BACKFILL)
	1.00	D					*At 0.6m, dry terracotta land drain running East to West.*
	1.20	D&B		1.10	109.00		MADE GROUND: Orangish brown clayey angular to subangular fine to coarse GRAVEL of mudstone and siltstone. (GRANULAR OPENCAST BACKFILL)
	1.30	J&T					*At 1.6m, mudstone boulder encountered measuring 0.3m x 0.4m x 0.2m.*
	1.90	D	HVP=140	1.80	108.30		Stiff orange mottled grey silty CLAY. (COHESIVE RESIDUAL SOIL) *At 1.9m, traces of black clay present as laminations contained within natural strata.* *At 2.0m, clay becomes gravelly with subangular fine to medium mudstone.*
				2.50	107.60		Moderately weak grey MUDSTONE recovered as angular fine to coarse gravel. (COAL MEASURES)
				3.40	106.70		End of pit at 3.40 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP028
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431439.84 - 407547.04 Level: 108.95	Date 18/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.50	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.30	108.65		MADE GROUND: Greyish brown gravelly slightly sandy CLAY. Gravel is subrounded fine to medium of mixed lithologies. Occasional rootlets. (MADE GROUND TOPSOIL)
	0.50	J&T					MADE GROUND: Grey very clayey slightly sandy angular to subangular fine to coarse GRAVEL of mudstone, siltstone, occasional sandstone and rare pottery and coal. Low subangular mudstone cobble content. (GRANULAR OPENCAST BACKFILL)
	0.90	D					*From 0.3m to 0.5m, intermittent band of light brown CLAY across trial pit.*
							From 1.8m, with small and medium subangular siltstone boulders.
				3.50	105.45		End of pit at 3.50 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP029
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431481.11 - 407568.67 Level: 105.65	Date 18/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.80	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.35	105.30		MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is subangular to subrounded fine to medium of mudstone and occasional sandstone and siltstone. Occasional rootlets. (MADE GROUND TOPSOIL)
	0.70	J&T					MADE GROUND: Grey clayey angular to subangular, occasionally tabular, fine to coarse GRAVEL of mudstone and occasional siltstone. High subangular tabular mudstone cobble content. (GRANULAR OPENCAST BACKFILL)
							From 1.0m, to 2.0m, little overbreak.
							From 1.9m, a low subangular small boulder content.
				3.80	101.85		End of pit at 3.80 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable between 1.0m and 2.0m depth during excavation with little overbreak in the granular strata.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP030
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431441.53 - 407590.46 Level: 106.70	Date 19/11/2021
Location: South Yorkshire		Dimensions (m): Depth 2.80, 3 × 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown sandy slightly gravelly CLAY. Gravel is subangular fine of mudstone. Frequent rootlets.
	0.30	D		0.25	106.45		(MADE GROUND TOPSOIL)
				0.45	106.25		MADE GROUND: Light brown mottled grey slightly gravelly CLAY. Gravel is angular tabular fine to medium of mudstone and mudstone lithorelicts. (COHESIVE MADE GROUND)
	0.60	J&T					MADE GROUND: Brownish grey very gravelly slightly sandy CLAY. Gravel is angular to subrounded fine to medium of mudstone and occasional mixed lithologies. (COHESIVE OPENCAST BACKFILL)
	0.70	D&B					
							From 1.4m,. Low mudstone and siltstone subangular cobble and boulder content.
							From 2.6m, with boulder sized lenses of firm light brown clay.
				2.80	103.90		End of pit at 2.80 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP031
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431401.24 - 407598.60 Level: 108.60	Date 19/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 1.50	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	D&B					MADE GROUND: Greyish brown silty slightly sandy CLAY. Some rootlets. (MADE GROUND TOPSOIL)
	0.30	J&T		0.25	108.35		MADE GROUND: Firm light brown mottled grey CLAY. (COHESIVE MADE GROUND)
				0.40	108.20		MADE GROUND: Grey occasionally brown very clayey angular to subangular fine to coarse GRAVEL of mudstone, occasional siltstone and rare pottery and coal. Medium subangular mudstone cobble content and medium subangular small mudstone and siltstone boulder content. (GRANULAR OPENCAST BACKFILL)
▼	0.60	J&T					*At 1.0m, with many subangular mudstone boulders of up to 0.8m in diameter. Difficult to excavate & over break of trial pit walls.*
							At 1.1m, little groundwater inflow.
							At 1.2m, large (1.2m diameter) siltstone boulder.
				1.50	107.10		End of pit at 1.50 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was apparent at 1.1m during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP032**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431432.92 - 407622.60 Level: 105.65	Date 19/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.10, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.30	105.35		MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is subangular to subrounded fine to medium of mudstone and siltstone. Frequent rootlets. (MADE GROUND TOPSOIL)
	0.50	D		0.60	105.05		MADE GROUND: Firm light brown mottled grey slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
	0.80	J&T					MADE GROUND: Grey very gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone. Medium subangular mudstone and siltstone cobble content. (COHESIVE OPENCAST BACKFILL)
	1.00	D		1.40	104.25		MADE GROUND: COARSE SOIL: Grey angular to subangular tabular COBBLES with some subangular small boulders of siltstone and mudstone. Some finer material of clayey slightly sandy subangular fine to coarse gravel of mudstone. (GRANULAR OPENCAST BACKFILL) *From 1.5m, hard dig with overbreak.*
			HVP=128	2.10	103.55		MADE GROUND: Stiff brown slightly gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone. Medium subangular mudstone cobble content. (COHESIVE OPENCAST BACKFILL) *From 2.7m, with small to medium siltstone boulders. Hard dig.*
				3.10	102.55		End of pit at 3.10 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP033
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431461.84 - 407642.53 Level: 103.15	Date 19/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.00 — 3 × 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.40	J&T		0.30	102.85		MADE GROUND: Greyish brown silty slightly sandy CLAY. Frequent rootlets. (MADE GROUND TOPSOIL)
				0.70	102.45		MADE GROUND: Light brown mottled grey slightly gravelly CLAY. Gravel is subangular medium of siltstone. Occasional rootlets. (COHESIVE MADE GROUND)
	0.90	D&B					MADE GROUND: Grey very clayey angular to subangular fine to coarse GRAVEL of mudstone, occasional siltstone and rare brick. Medium subangular siltstone cobble and subangular small mudstone and siltstone boulder content. (GRANULAR OPENCAST BACKFILL)
							From 1.5m,. High cobble and boulder content. Hard dig with some overbreak.
	2.50	D					
				3.00	100.15		End of pit at 3.00 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable from 1.5m depth during excavation with little overbreak in the granular strata.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP034**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431467.57 - 407605.26 Level: 104.75	Date 19/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.10, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown sandy slightly gravelly CLAY. Gravel is subangular fine of mudstone and occasional coal. Some rootlets. (MADE GROUND TOPSOIL)
				0.30	104.45		MADE GROUND: Stiff light brown CLAY. Occasional rootlets. (COHESIVE MADE GROUND)
	0.50	D					
				0.60	104.15		MADE GROUND: Grey, occasionally dark grey and greyish brown, clayey slightly sandy angular to subangular fine to coarse GRAVEL of mudstone and occasional siltstone, brick and coal. High angular mudstone cobble and low subangular small mudstone boulder content. (GRANULAR OPENCAST BACKFILL)
	0.90	D					
				1.40	103.35		MADE GROUND: Brownish grey gravelly CLAY. Gravel is subangular fine to coarse of mudstone and occasional siltstone and sandstone. High angular to subangular mudstone cobble subangular small to medium mudstone and siltstone boulder content. (COHESIVE OPENCAST BACKFILL)
	1.70	D					
				2.30	102.45		MADE GROUND: Grey clayey subangular medium to coarse GRAVEL of mudstone. Medium subangular mudstone cobble content. (GRANULAR OPENCAST BACKFILL) *From 2.5m, hard dig.*
				3.10	101.65		End of pit at 3.10 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP035
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431387.74 - 407628.17 Level: 107.55	Date 19/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 2.40	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	D&B		0.25	107.30		MADE GROUND: Greyish brown silty CLAY. Some rootlets. (MADE GROUND TOPSOIL)
				0.50	107.05		MADE GROUND: Light brown mottled grey CLAY. Rare subangular coarse gravel of mudstone. (COHESIVE MADE GROUND)
	0.80	D&B		2.40	105.15		MADE GROUND: Grey very clayey angular to subangular fine to coarse GRAVEL of mudstone and occasional siltstone and sandstone. Medium subangular tabular mudstone cobble content and low subangular small mudstone boulder content. (GRANULAR OPENCAST BACKFILL) End of pit at 2.40 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP036**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431427.68 - 407661.34 Level: 103.70	Date 19/11/2021
Location: South Yorkshire		Dimensions (m): Depth 2.60, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.40	103.30		MADE GROUND: Greyish brown slightly silty sandy CLAY. Occasional rootlets. (MADE GROUND TOPSOIL)
	0.60	J&T		0.50	103.20		MADE GROUND: Firm light brown mottled grey slightly gravelly CLAY. Gravel is subangular fine to medium of siltstone. (COHESIVE MADE GROUND)
	0.80	D					MADE GROUND: Grey very gravelly slightly sandy CLAY. Gravel is angular to subangular fine to coarse of mudstone. Medium subangular mudstone cobble content. (COHESIVE OPENCAST BACKFILL)
							At 0.6m, terracotta land drain.
							From 1.0m,. High angular tabular mudstone cobble and medium subangular small to medium mudstone and siltstone boulder content. Hard dig and overbreak.
▼							*At 2.4m, groundwater seepage in North pit wall.*
				2.60	101.10		End of pit at 2.60 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater seepage was apparent at 2.4m during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable from 1.0m depth during excavation with little overbreak in the granular strata.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP037
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431455.76 - 407675.98 Level: 101.70	Date 19/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.00, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	101.40		MADE GROUND: Brown silty slightly gravelly CLAY. Gravel is angular to subangular fine to medium of mudstone and occasional coal and pottery. (MADE GROUND TOPSOIL)
	0.40	D&B		0.60	101.10		MADE GROUND: Light brown mottled grey slightly gravelly CLAY. Gravel is subangular fine to medium of siltstone. (COHESIVE MADE GROUND)
	1.00	D&B					MADE GROUND: Grey clayey slightly sandy angular to subangular fine to coarse GRAVEL of mudstone and occasional siltstone. (GRANULAR OPENCAST BACKFILL)
	1.30	J&T					
				1.90	99.80		MADE GROUND: Brown gravelly CLAY. Gravel is subangular fine to medium of mudstone. Low subangular mudstone cobble content. (COHESIVE OPENCAST BACKFILL)
	2.20	D					
				3.00	98.70		End of pit at 3.00 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP038
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431382.40 - 407676.35 Level: 104.55	Date 22/11/2021
Location: South Yorkshire		Dimensions (m): 3 x 0.6, Depth 3.00	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	104.25		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone and siltstone. (MADE GROUND TOPSOIL)
			HVP=100	0.50	104.05		MADE GROUND: Firm locally stiff orange mottled grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
	1.00	J&T					MADE GROUND: Grey silty clayey angular to subangular fine to coarse GRAVEL of mudstone. (GRANULAR OPENCAST BACKFILL)
							At 1.4m, a low cobble content of subangular mudstone.
				1.60	102.95		MADE GROUND: Stiff orange mottled grey silty CLAY. (COHESIVE OPENCAST BACKFILL)
			HVP=98				*At 1.6m, mudstone boulder encountered measuring 0.45m x 0.4m x 0.4m.*
	2.00	D					*From 0.5m to 1.6m, some overbreak of trial pit sidewalls.*
				2.30	102.25		MADE GROUND: Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to medium of mudstone. (COHESIVE OPENCAST BACKFILL)
				3.00	101.55		End of pit at 3.00 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP039**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431413.77 - 407696.43 Level: 102.30	Date 22/11/2021
Location: South Yorkshire		Dimensions (m): Depth 2.00, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10 0.10	B J&T					MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
			HVP=87	0.30	102.00		MADE GROUND: Firm orange mottled grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
	1.00	D&B		0.80	101.50		MADE GROUND: Grey silty clayey angular to subangular fine to coarse GRAVEL of mudstone. Low cobble content of subangular mudstone. (GRANULAR OPENCAST BACKFILL) *At 1.3m, mudstone boulders encountered measuring 0.5m x 0.3m x 0.15m and 0.4m x 0.3m x 0.2m.* *From 1.6m, a high cobble content of angular mudstone.*
				1.80	100.50		MADE GROUND: Grey angular fine to coarse GRAVEL of mudstone. High cobble content of angular mudstone and medium angular small to medium mudstone boulder content. (GRANULAR OPENCAST BACKFILL) *At 1.9m, mudstone boulder encountered measuring 0.7m x 0.3m x 0.15m.* *At 2.0m, multiple large mudstone boulders at base of pit. Extremely difficult to excavate.*
				2.00	100.30		End of pit at 2.00 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP040
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431451.18 - 407727.51 Level: 99.15	Date 22/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.00	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	98.85		MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
	0.50	D	HVP=118				MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
	0.70	D		0.60	98.55		MADE GROUND: Stiff grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL)
							From 0.6m, clay is too gravelly for accurate hand shear vane tests.
							At 1.0m, large mudstone boulder encountered in west of trial pit. Cannot excavate out; left in situ - exposed surface measures 0.6m x 0.5m x 1.0m.
	2.50	J&T					
				3.00	96.15		End of pit at 3.00 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP041
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431494.54 - 407739.91 Level: 96.60	Date 22/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.00, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
				0.30	96.30		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine of mudstone. (COHESIVE MADE GROUND)
				0.50	96.10		MADE GROUND: Stiff to very stiff grey gravelly silty CLAY. Low cobble content of subangular mudstone. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL) *From 0.5m, clay is too gravelly to undertake accurate hand shear vane tests.* *From 0.5m to 1.5m, some overbreak of trial pit sidewalls.*
	1.40	D&B					
				2.40	94.20		MADE GROUND: Grey slightly clayey angular fine to coarse GRAVEL of mudstone. Low cobble content of angular mudstone. (GRANULAR OPENCAST BACKFILL)
				3.00	93.60		End of pit at 3.00 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP042
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431474.98 - 407775.71 Level: 95.75	Date 22/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.20, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	95.45		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
				0.45	95.30		MADE GROUND: Firm orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
	0.80	J&T					MADE GROUND: Stiff to very stiff grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL)
	0.90	D					*From 0.45m, clay is too gravelly to undertake accurate hand shear vane tests.*
	2.20	D					
				3.20	92.55		End of pit at 3.20 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP043**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431438.50 - 407757.55 Level: 98.30	Date 22/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.30	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10 0.10	B J&T					MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
				0.30	98.00		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to coarse of mudstone. (COHESIVE MADE GROUND)
	0.60	D	HVP=118	0.70	97.60		MADE GROUND: Stiff locally very stiff grey gravelly silty CLAY. Low cobble content of angular mudstone. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL) *From 0.7m, clay is too gravelly to undertake accurate hand shear vane tests.*
				1.30	97.00		MADE GROUND: Grey slightly clayey angular fine to coarse GRAVEL of mudstone. High angular mudstone cobble content and medium subangular medium mudstone boulder content. (GRANULAR OPENCAST BACKFILL) *At 1.6m, boulder of angular mudstone encountered measuring 0.6m x 0.5m x 0.45m.* *At 1.8m, boulder of subangular mudstone encountered measuring 0.7m x 0.6m x 0.3m.*
	2.40	D&B		2.10	96.20		MADE GROUND: Firm to stiff brownish grey gravelly silty CLAY. Gravel is subangular medium to coarse of mudstone. (COHESIVE OPENCAST BACKFILL) *From 1.3m to 2.1m, overbreak of trial pit sidewall.*
				3.30	95.00		End of pit at 3.30 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP044
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431411.74 - 407738.30 Level: 100.20	Date 22/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.40, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	99.90		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
			HVP=99	0.70	99.50		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE MADE GROUND)
	0.80	D&B					MADE GROUND: Grey silty clayey angular to subangular fine to coarse GRAVEL of mudstone. Medium subangular mudstone and siltstone cobble content and subangular small mudstone boulder content. (GRANULAR OPENCAST BACKFILL)
	1.20	J&T		1.20	99.00		MADE GROUND: COARSE SOIL: Grey angular BOULDERS of mudstone with many angular mudstone cobbles. With some finer material of clayey subangular fine to coarse mudstone and siltstone gravel. (GRANULAR OPENCAST BACKFILL) *From 1.2m to 1.7m, significant overbreak in trial pit sidewall.*
				1.70	98.50		MADE GROUND: Firm to stiff greyish brown gravelly silty CLAY. Low cobble content of angular mudstone. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL)
				3.40	96.80		End of pit at 3.40 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP045
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431373.97 - 407720.11 Level: 102.60	Date 22/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.30	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
				0.30	102.30		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE MADE GROUND)
			HVP=130				
	0.90	J&T					
				1.00	101.60		MADE GROUND: Grey silty clayey angular fine to coarse GRAVEL of mudstone. High cobble content of angular mudstone. (GRANULAR OPENCAST BACKFILL)
							At 1.1m, angular mudstone boulder encountered measuring 0.5m x 0.4m x 0.2m.
	2.00	J&T					
							At 2.4m, angular mudstone boulder encountered measuring 0.6m x 0.4m x 0.2m.
				3.30	99.30		End of pit at 3.30 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP046
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431485.15 - 407712.94 Level: 98.45	Date 22/11/2021
Location: South Yorkshire		Dimensions (m): Depth 1.20, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10 0.10	B J&T					MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is subangular fine to coarse of mudstone. (MADE GROUND TOPSOIL)
				0.30	98.15		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to coarse of mudstone. (COHESIVE MADE GROUND)
			HVP=107				
			HVP=94				
				0.80	97.65		MADE GROUND: Grey silty clayey angular to subangular fine to coarse GRAVEL of mudstone. High cobble content of angular mudstone. Medium angular small mudstone boulder content. (GRANULAR OPENCAST BACKFILL)
	1.00	D&B					*At 1.0m, a mudstone boulder is preventing further excavation in east of pit.*
				1.20	97.25		*At 1.1m, a mudstone boulder is preventing further excavation in west of pit.*
							End of pit at 1.20 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP047
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431442.59 - 407805.69 Level: 95.90	Date 23/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.70, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	95.60		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to coarse of mudstone. (MADE GROUND TOPSOIL)
	0.60	J&T	HVP=114				MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL)
				0.80	95.10		MADE GROUND: Stiff grey gravelly silty CLAY. Gravel is angular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL)
	1.00	D&B					*Below 0.8m, clay is too gravelly for accurate hand shear vane tests.* *From 1.1m, low cobble content of angular mudstone.*
	2.50	D					
				3.70	92.20		End of pit at 3.70 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP048
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431405.86 - 407782.00 Level: 98.35	Date 23/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.10	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.30	98.05		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to coarse of mudstone. (MADE GROUND TOPSOIL)
	0.40	D&B	HVP=89				MADE GROUND: Firm locally stiff orange mottled grey silty slightly gravelly CLAY. Gravel is angular fine to coarse of mudstone. (COHESIVE MADE GROUND)
			HVP=126	0.90	97.45		MADE GROUND: Stiff grey gravelly silty CLAY. Gravel is angular fine to coarse of mudstone, coal and carbonaceous mudstone. (COHESIVE OPENCAST BACKFILL)
							From 1.4m, high cobble content. Cobbles are angular of mudstone.
	1.60	J&T					*Below 1.9m, clay is too gravelly for accurate hand shear vane tests.*
	2.80	D		3.10	95.25		End of pit at 3.10 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP049**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431381.83 - 407764.20 Level: 100.10	Date 23/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.40	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	99.80		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is angular fine to medium of mudstone. (MADE GROUND TOPSOIL)
	0.60	D	HVP=108				MADE GROUND: Stiff locally firm orange mottled grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE MADE GROUND) *At 0.5m, boulder of mudstone encountered measuring 0.3m x 0.3m x 0.1m.*
				1.00	99.10		MADE GROUND: Very stiff grey gravelly silty CLAY. Low cobble content of angular mudstone. Gravel is angular fine to coarse of mudstone, coal and carbonaceous mudstone. (COHESIVE OPENCAST BACKFILL) *Below 1.0m, clay is too gravelly for accurate hand shear vane tests.*
				1.90	98.20		MADE GROUND: Grey silty clayey angular to subangular fine to coarse GRAVEL of mudstone. Low cobble content of angular mudstone. (GRANULAR OPENCAST BACKFILL)
	2.50	D&B					
				3.40	96.70		End of pit at 3.40 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

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Trial Pit Log

Trialpit No
TP050
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431347.13 - 407746.11 Level: 102.30	Date 23/11/2021
Location: South Yorkshire		Dimensions (m): Depth 2.70, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.30	102.00		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to coarse of mudstone. (MADE GROUND TOPSOIL)
			HVP=129 HVP=117	0.90	101.40		MADE GROUND: Stiff orange mottled grey gravelly silty CLAY. Gravel is subangular fine to coarse of mudstone. (COHESIVE MADE GROUND)
	1.00	D	HVP=105 HVP=90				Stiff orangish grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone and ironstone. (COHESIVE RESIDUAL SOIL)
	2.40	D		2.30	100.00		Grey silty clayey angular fine to coarse GRAVEL of mudstone and ironstone. (GRANULAR RESIDUAL SOIL)
				2.50	99.80		Moderately weak greyish brown MUDSTONE. Recovered as slightly clayey angular fine to coarse gravel. (COAL MEASURES)
				2.70	99.60		End of pit at 2.70 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP051
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431342.96 - 407769.93 Level: 101.20	Date 23/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 2.80	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	100.90		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
			HVP=119	0.60	100.60		MADE GROUND: Stiff orange and grey silty slightly gravelly CLAY. Gravel is subangular fine to coarse of mudstone, ironstone and coal. (COHESIVE MADE GROUND)
	0.80	D&B					Stiff orange and grey gravelly silty CLAY. Gravel is angular to subrounded fine to coarse of mudstone and ironstone. (COHESIVE RESIDUAL SOIL)
			HVP=113				
				1.80	99.40		Grey clayey angular fine to coarse GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
				2.70	98.50		Moderately weak grey MUDSTONE. Recovered as angular tabular fine to coarse gravel of mudstone and occasional ironstone. (COAL MEASURES)
				2.80	98.40		End of pit at 2.80 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

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Trial Pit Log

Trialpit No
TP052
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431369.10 - 407800.01 Level: 98.95	Date 23/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.20	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10 0.10	B J&T					MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
				0.30	98.65		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to coarse of mudstone. (COHESIVE MADE GROUND)
			HVP=123				
	0.80	J&T					*Below 1.0m, no blocks arising to undertake hand shear vane tests.*
				1.50	97.45		MADE GROUND: Stiff to very stiff grey gravelly silty CLAY. Gravel is angular fine to coarse of mudstone, coal and ironstone. (COHESIVE OPENCAST BACKFILL)
	1.70	J&T					
				3.20	95.75		End of pit at 3.20 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP053
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431400.65 - 407819.14 Level: 97.05	Date 23/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.50	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	96.75		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to coarse of mudstone. (MADE GROUND TOPSOIL)
			HVP=115				MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to coarse of mudstone. (COHESIVE MADE GROUND)
	0.90	D	HVP=142				
				1.10	95.95		MADE GROUND: Stiff to very stiff grey very gravelly silty CLAY. Low cobble content of angular mudstone. Gravel is angular tabular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL)
				1.40	95.65		*Below 1.1m, clay is too gravelly for accurate hand shear vane tests.*
							MADE GROUND: Grey silty clayey angular tabular fine to coarse GRAVEL of mudstone. High cobble content of angular mudstone. (GRANULAR OPENCAST BACKFILL)
							Between 1.9m and 3.4m, spalling of trial pit sidewalls.
	2.10	D					
				3.50	93.55		End of pit at 3.50 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable between 1.9m and 3.4m depth during excavation due to spalling.

AGS

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Trial Pit Log

Trialpit No
TP054
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431445.78 - 407840.88 Level: 94.45	Date 24/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.30	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.30	94.15		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
			HVP=89	0.60	93.85		MADE GROUND: Stiff locally firm orange mottled grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE MADE GROUND)
							MADE GROUND: Very stiff grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL) *Below 0.6m, clay is too gravelly for accurate hand shear vane tests.*
	1.30	D					*From 1.3m, high cobble content of angular mudstone.*
	2.00	J&T					
				3.30	91.15		End of pit at 3.30 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP055
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431335.72 - 407810.84 Level: 99.40	Date 24/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 2.60	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							Greyish brown silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (TOPSOIL)
				0.30	99.10		Very stiff orangish brown mottled grey silty slightly gravelly CLAY. Gravel is angular to subrounded fine to medium of mudstone. (COHESIVE RESIDUAL SOIL)
			HVP=120				
	0.80	D	HVP=142				
			HVP=142				*From 1.0m, clay becomes gravelly.*
				2.00	97.40		Grey silty clayey angular to subangular fine to coarse GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
	2.30	D					
				2.40	97.00		Moderately weak grey MUDSTONE. Recovered as angular fine to coarse GRAVEL. (COAL MEASURES)
				2.60	96.80		End of pit at 2.60 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP056
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431338.54 - 407851.37 Level: 97.85	Date 24/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 2.80	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.30	97.55		Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (TOPSOIL)
			HVP=138				Stiff to very stiff orange and grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone and rare ironstone. (COHESIVE RESIDUAL SOIL)
			HVP=121				
	1.60	D		1.90	95.95		Grey clayey angular to subangular fine to coarse GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
	2.80	D		2.70 2.80	95.15 95.05		Moderately weak brownish grey MUDSTONE. Recovered as angular to subangular fine to coarse GRAVEL. (COAL MEASURES) End of pit at 2.80 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

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Trial Pit Log

Trialpit No
TP057
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431373.42 - 407840.65 Level: 97.25	Date 24/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6 Depth 3.70	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.30	96.95		MADE GROUND: Dark greyish brown silty slightly gravelly CLAY. Gravel is subangular fine of mudstone. (MADE GROUND TOPSOIL)
	0.40	J&T					MADE GROUND: Light brown mottled grey slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone and siltstone. (COHESIVE MADE GROUND)
	0.60	D					
	1.60	D&B		1.50	95.75		MADE GROUND: Grey mottled brown very clayey angular to subangular fine to coarse GRAVEL of mudstone, occasional siltstone and rare coal and pottery. Low subangular mudstone cobble content. (GRANULAR OPENCAST BACKFILL)
				3.70	93.55		End of pit at 3.70 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP058
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431317.43 - 407892.01 Level: 97.75	Date 24/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6 Depth 3.60	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.30	97.45		Greyish brown silty CLAY. Frequent rootlets. (TOPSOIL)
	0.50	D					Stiff light brown mottled grey gravelly CLAY. Gravel is angular tabular fine to medium of mudstone. Low angular tabular mudstone cobble content. (COHESIVE RESIDUAL SOIL)
	1.20	D		2.30	95.45		Weak brown and grey thickly laminated MUDSTONE. Recovered as slightly clayey slightly sandy angular tabular fine to medium gravel. (COAL MEASURES)
	3.00	D		3.60	94.15		End of pit at 3.60 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP059
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431367.45 - 407886.06 Level: 96.20	Date 24/11/2021
Location: South Yorkshire		Dimensions (m): Depth 2.20, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	D&B		0.25	95.95		Greyish brown slightly sandy slightly gravelly CLAY. Gravel is subangular fine of mudstone and rare coal. Some rootlets. (TOPSOIL)
	0.50	D	HVP=106				Stiff light brown mottled grey slightly gravelly CLAY. Gravel is angular tabular medium to coarse of mudstone. (COHESIVE RESIDUAL SOIL) *0.4m terracotta land drain encountered with little ingress of water.*
			HVP=112				*From 1.2m clay is grey in colour and gravelly.*
	2.00	D		1.80	94.40		Weak greyish brown thinly bedded MUDSTONE. Recovered as slightly clayey angular tabular medium to coarse gravel. (COAL MEASURES)
				2.20	94.00		End of pit at 2.20 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP060
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431391.85 - 407906.23 Level: 94.85	Date 24/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 2.90	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	94.55		Greyish brown silty CLAY. Frequent rootlets. (TOPSOIL)
	0.80	D	HVP=114				Stiff light brown mottled grey CLAY. (COHESIVE RESIDUAL SOIL)
							From 1.1m greyish brown in colour.
				1.70	93.15		Stiff grey very gravelly CLAY. Gravel is angular tabular fine of mudstone lithorelicts. With relict bedding and laminations. (COHESIVE RESIDUAL SOIL)
	1.90	D		2.00	92.85		Grey and brown slightly clayey angular tabular fine to coarse GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
				2.90	91.95		End of pit at 2.90 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP061
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431400.00 - 407882.80 Level: 95.00	Date 24/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.10	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown silty slightly gravelly SAND. Some rootlets. (TOPSOIL)
				0.30	94.70		
	0.40	D	HVP=96				MADE GROUND: Light brown mottled grey CLAY. (COHESIVE RESIDUAL SOIL)
				0.60	94.40		
	0.80	J&T					MADE GROUND: Grey very clayey angular to subangular fine to coarse GRAVEL of mudstone, occasional siltstone and sandstone and rare pottery. Low subangular mudstone cobble content. (GRANULAR RESIDUAL SOIL)
	1.20	D&B					
				3.10	91.90		End of pit at 3.10 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP062
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431468.85 - 407884.80 Level: 91.85	Date 24/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.70	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.20	91.65		MADE GROUND: Greyish brown sandy silty CLAY. Some rootlets. (MADE GROUND TOPSOIL)
	0.50	J&T					MADE GROUND: Grey very clayey slightly sandy angular to subangular fine to coarse GRAVEL of mudstone and occasional siltstone. Low subangular mudstone cobble content. (COHESIVE MADE GROUND)
							From 1.4m with high cobble content.
				2.20	89.65		MADE GROUND: Greyish brown gravelly CLAY. Gravel is very angular to subangular fine to coarse of mudstone, siltstone and occasional ironstone and sandstone. (COHESIVE OPENCAST BACKFILL)
	3.00	D&B					
				3.70	88.15		End of pit at 3.70 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP063
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431435.01 - 407896.28 Level: 93.00	Date 25/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.90	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. Occasional rootlets. (MADE GROUND TOPSOIL)
				0.50	92.50		MADE GROUND: Brownish grey clayey slightly sandy angular to subangular predominantly tabular fine to coarse GRAVEL of mudstone. Low subangular mudstone cobble content. (GRANULAR OPENCAST BACKFILL)
	2.70	J&T					
				2.80	90.20		MADE GROUND: Brownish grey very gravelly CLAY. Gravel is subangular fine to medium of mudstone and occasional siltstone and sandstone. (COHESIVE OPENCAST BACKFILL)
				3.90	89.10		End of pit at 3.90 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP064
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431460.92 - 407921.18 Level: 91.15	Date 25/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6 Depth 3.20	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Dark greyish brown slightly sandy slightly gravelly CLAY. Gravel is subangular fine of mudstone and rare coal and sandstone. Occasional rootlets. (MADE GROUND TOPSOIL)
				0.50	90.65		
	0.60	J&T					MADE GROUND: Light brown mottled grey slightly gravelly CLAY. Gravel is angular tabular medium of mudstone. (COHESIVE MADE GROUND)
	0.70	D					
				0.80	90.35		MADE GROUND: Grey very gravelly slightly sandy CLAY. Gravel is angular to subangular fine to coarse of mudstone and occasional siltstone. Medium angular tabular mudstone cobble content. (COHESIVE OPENCAST BACKFILL)
	2.00	D&B					*From 2.2m with low cobble content.*
				3.20	87.95		End of pit at 3.20 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

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Trial Pit Log

Trialpit No
TP065
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431477.06 - 407950.70 Level: 89.70	Date 25/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 2.80	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	B		0.30	89.40		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to coarse of mudstone. (MADE GROUND TOPSOIL)
			HVP=131	0.60	89.10		MADE GROUND: Stiff orangish brown silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
	0.80	J&T		0.90	88.80		MADE GROUND: Stiff to very stiff greyish brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse mudstone. (COHESIVE OPENCAST BACKFILL)
			HVP=142				Very stiff orangish brown mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE RESIDUAL SOIL) *At 0.9m, dry terracotta land drain orientated north to south.*
	1.60	D		2.20	87.50		Brownish grey clayey angular fine to coarse GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
				2.60	87.10		Moderately weak greyish brown MUDSTONE. Recovered as angular tabular fine to coarse GRAVEL. (COAL MEASURES)
				2.80	86.90		End of pit at 2.80 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

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Trial Pit Log

Trialpit No
TP066
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431534.06 - 407939.67 Level: 87.00	Date 25/11/2021
Location: South Yorkshire		Dimensions (m): Depth 2.90, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20	86.80		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
				0.40	86.60		MADE GROUND: Stiff to very stiff grey gravelly silty CLAY. Gravel is subangular fine to coarse of mudstone. (COHESIVE MADE GROUND)
			HVP=137				*Between 0.2m and 0.4m, clay is too gravelly to undertake accurate hand shear vane tests.*
	0.90	D&B					Very stiff orange mottled grey silty CLAY. (COHESIVE RESIDUAL SOIL)
							At 0.9m, clay becomes slightly gravelly of subangular fine to medium mudstone.
				2.30	84.70		Grey and brown clayey angular to subangular fine to coarse GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
	2.70	D					
				2.90	84.10		End of pit at 2.90 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

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Trial Pit Log

Trialpit No
TP067
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431503.53 - 407917.94 Level: 89.30	Date 25/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.20, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	89.00		MADE GROUND: Greyish brown sandy silty CLAY. Some rootlets. (MADE GROUND TOPSOIL)
			HVP=92	0.50	88.80		MADE GROUND: Firm grey mottled light brown CLAY. (COHESIVE MADE GROUND)
	0.70	J&T					MADE GROUND: Grey clayey slightly sandy angular to subangular fine to coarse GRAVEL of mudstone. Low angular mudstone cobble content. (GRANULAR OPENCAST BACKFILL)
	0.90	D&B					*From 1.9m with medium subangular mudstone cobble content.*
				3.20	86.10		End of pit at 3.20 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

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Trial Pit Log

Trialpit No
TP068
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431476.46 - 407846.61 Level: 92.95	Date 25/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.00, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10 0.10	B J&T					MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
				0.30	92.65		
				0.40	92.55		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
							MADE GROUND: Stiff to very stiff grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL)
							From 0.9m, medium cobble content of angular mudstone.
				3.00	89.95		End of pit at 3.00 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP069**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431511.95 - 407875.02 Level: 90.40	Date 25/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.90; 3 × 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	90.10		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
							Between 0.25m to 0.3m, firm to stiff orange silty CLAY.
	0.60 0.70	J&T D&B					MADE GROUND: Brownish grey silty clayey angular to subangular GRAVEL of mudstone and rare ironstone. Low cobble content of mudstone. (GRANULAR OPENCAST BACKFILL)
				1.40	89.00		MADE GROUND: COARSE SOIL: Brownish grey angular to subangular COBBLES of mudstone. With much finer material of silty angular to subangular fine to coarse gravel of mudstone. (GRANULAR OPENCAST BACKFILL)
				2.40	88.00		MADE GROUND: Brownish grey silty clayey angular to subangular GRAVEL of mudstone and ironstone. High cobble content of mudstone. (GRANULAR OPENCAST BACKFILL)
				3.90	86.50		End of pit at 3.90 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. Spalling of the sides of the trial pit between 1.4m and 2.4m depth during excavation.

AGS

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Trial Pit Log

Trialpit No
TP070
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431518.92 - 407833.61 Level: 91.55	Date 25/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.70, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
			HVP=142	0.30	91.25		MADE GROUND: Orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
				0.50	91.05		MADE GROUND: Stiff to very stiff grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL)
	0.90	J&T					
							From 1.3m, low cobble content of angular to subangular mudstone.
	1.90	D					*From 1.8m, clay is firm.*
				3.70	87.85		End of pit at 3.70 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

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Trial Pit Log

Trialpit No
TP071
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431489.33 - 407813.64 Level: 93.60	Date 25/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.20	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10 0.10	B J&T					Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
				0.30	93.30		
				0.40	93.20		MADE GROUND: Stiff brownish orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
	1.00	D&B					MADE GROUND: Firm brownish grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL)
	2.00	D&B					
				3.20	90.40		End of pit at 3.20 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

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Trial Pit Log

Trialpit No **TP101** Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431512.75 - 407527.74 Level: 105.70	Date 18/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 4.10	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	105.40		MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
			HVP=105	0.60	105.10		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
	0.80	D	HVP=120				MADE GROUND: Stiff grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone, ironstone and rare coal and brick. (COHESIVE OPENCAST BACKFILL)
			HVP=140				
	1.20	D&B					*At 1.2m, fragment of wood contained in arisings.*
							At 1.8m, low cobble content of angular to subrounded mudstone and ironstone.
				1.90	103.80		MADE GROUND: Brownish grey silty clayey angular to subrounded fine to coarse GRAVEL of mudstone and occasional coal and ironstone. High cobble content of angular mudstone. (GRANULAR OPENCAST BACKFILL)
	2.40	D&B					
	2.50	J&T					
							From 2.9m to 4.1m, spalling of the sidewall.
				4.10	101.60		End of pit at 4.10 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable between 2.9m and 4.1m depth during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP102
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431518.76 - 407587.80 Level: 102.85	Date 18/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.90	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.20 0.20	D&B J		0.30	102.55		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine of mudstone with rare coal. (MADE GROUND TOPSOIL)
	0.50	D	HVP=104				MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to coarse of mudstone. (COHESIVE MADE GROUND)
	0.90	J&T		0.70	102.15		MADE GROUND: Grey silty clayey angular to subangular fine to coarse GRAVEL of mudstone. High cobble content of subangular mudstone and medium subangular small to medium subangular boulders. (GRANULAR OPENCAST BACKFILL) *From 0.7m to 1.6m, spalling of side walls.* *At 0.9m, mudstone boulder encountered measuring 0.65m x 0.4m x 0.1m.* *At 1.1m, mudstone boulder encountered measuring 0.7m x 0.7m x 0.3m.*
	1.20	D&B					*At 1.5m, gravel contains a frequent coal fraction.*
	1.80	D		1.60	101.25		MADE GROUND: Stiff brownish grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone ironstone and coal. (COHESIVE OPENCAST BACKFILL)
				3.90	98.95		End of pit at 3.90 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable between 0.7m and 1.6m depth during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP103
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431548.61 - 407616.30 Level: 100.15	Date 18/11/2021
Location: South Yorkshire		Dimensions (m): 3 x 0.6 Depth 3.90	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	99.85		MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
			HVP=89	0.80	99.35		MADE GROUND: Stiff locally firm orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone and rare pottery. (COHESIVE MADE GROUND)
	1.40	D&B					MADE GROUND: Stiff grey very gravelly silty CLAY. Low cobble content of subangular mudstone. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL) *From 0.8m, clay is to gravelly to undertake accurate hand shear vane testing.* *At 1.2m, multiple mudstone boulders encountered, the largest measuring 0.8m x 0.5m x 0.2m.* *Between 1.6m and 1.8m, clay is wet and firm locally soft.* *From 0.8m to 1.8m, some overbreak of trial pit sidewalls.*
				1.80	98.35		MADE GROUND: Black clayey angular fine to medium GRAVEL of carbonaceous mudstone and coal. (GRANULAR OPENCAST BACKFILL)
	2.20	D		2.00	98.15		MADE GROUND: Stiff grey gravelly silty CLAY. Gravel is angular fine to coarse of mudstone, coal and carbonaceous mudstone. (COHESIVE OPENCAST BACKFILL) *Below 2.0m, clay is to gravelly to undertake accurate hand shear vane tests.*
	2.90	D&B					
				3.30	96.85		Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone lithorelicts. (COHESIVE RESIDUAL SOIL)
	3.60	D		3.50	96.65		Extremely weak black vitreous COAL. Recovered as angular fine to medium gravel. (THIN COAL)
				3.70	96.45		Stiff brownish grey mottled orange silty CLAY. (SEAT EARTH)
				3.90	96.25		End of pit at 3.90 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP104**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431511.75 - 407631.07 Level: 101.50	Date 18/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.40	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.30	101.20		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
			HVP=95	0.60	100.90		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
	1.00	J&T					MADE GROUND: Firm locally stiff grey gravelly silty CLAY. Low cobble content of angular mudstone. (COHESIVE OPENCAST BACKFILL) *From 0.6m, clay is too gravelly to undertake accurate hand shear vane test.*
	1.50	D&B					*At 1.8m, immovable mudstone boulder in west of pit.*
	2.00	D		1.90	99.60		MADE GROUND: Stiff brown gravelly silty CLAY. Gravel is subangular fine to medium of mudstone and coal. (COHESIVE OPENCAST BACKFILL)
				3.40	98.10		End of pit at 3.40 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP105
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431514.55 - 407691.22 Level: 98.05	Date 22/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.50	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.20 0.20	B J&T		0.30	97.75		MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is subangular fine to coarse of mudstone. (MADE GROUND TOPSOIL)
	0.50	D&B	HVP=141	0.60	97.45		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE MADE GROUND)
	1.00	D&B					MADE GROUND: Stiff grey gravelly silty CLAY. High cobble content of angular mudstone. Gravel is angular to subangular fine to coarse of mudstone and rare carbonaceous mudstone. (COHESIVE OPENCAST BACKFILL) *Below 0.6m, clay is too gravelly to undertake accurate hand shear vane tests.*
				1.20	96.85		MADE GROUND: Stiff brownish grey silty slightly gravelly CLAY. Gravel is subangular fine to coarse of mudstone with rare ironstone and coal. (COHESIVE OPENCAST BACKFILL)
	1.50	D					*At 2.1m, clay is gravelly.*
	2.70	D					
	3.10	D	HVP=91	3.00	95.05		Stiff orange and grey silty slightly gravelly CLAY. Gravel is angular fine to medium of mudstone lithorelicts. (COHESIVE RESIDUAL SOIL)
	3.30	T		3.20	94.85		Soft black ash gravelly CLAY. Gravel is angular fine to coarse of coal. (THIN COAL)
				3.40	94.65		Stiff grey and buff silty CLAY. (SEAT EARTH)
				3.50	94.55		End of pit at 3.50 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP106
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431546.33 - 407664.90 Level: 97.80	Date 22/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.20	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown silty CLAY. Occasional rootlets. (MADE GROUND TOPSOIL)
				0.25	97.55		
			HVP=82				MADE GROUND: Light brown mottled grey slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone and occasional siltstone. (COHESIVE MADE GROUND)
	0.50	J&T					
				0.70	97.10		MADE GROUND: Grey very gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone and rare coal. High angular tabular mudstone cobble content. Low subangular small mudstone and siltstone boulder content. (COHESIVE OPENCAST BACKFILL) *From 1.0m to 2.2m little spalling and overbreak of trial pit walls.*
	1.00	J&T					
	1.20	D&B					*1.6m to 1.8m bed of brown CLAY.*
				2.50	95.30		Stiff brown mottled grey gravelly CLAY. Gravel is angular tabular fine to medium of mudstone and mudstone lithorelicts. With relict bedding and lamination throughout. (COHESIVE RESIDUAL SOIL)
	2.80	D&B	HVP=78				
				3.20	94.60		End of pit at 3.20 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit spalled during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP107
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431527.15 - 407648.54 Level: 99.75	Date 23/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.00, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.30	99.45		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to coarse of mudstone. (MADE GROUND TOPSOIL)
	0.50	D	HVP=115	0.70	99.05		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE MADE GROUND)
							MADE GROUND: Firm to stiff grey gravelly silty CLAY. Gravel is angular to rounded fine to coarse of mudstone and rare carbonaceous mudstone, ironstone and coal. (COHESIVE OPENCAST BACKFILL)
							Below 0.7m, clay is too gravelly for accurate hand shear vane tests.
	1.40	J&T					*From 1.4m, high cobble content. Cobbles are angular of mudstone.*
				1.70	98.05		MADE GROUND: Stiff greyish brown gravelly silty CLAY. Gravel is angular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL)
				2.00	97.75		*Below 1.7m, too gravelly for accurate hand shear vane tests.*
	2.30	D					Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone lithorelicts. (COHESIVE RESIDUAL SOIL)
				3.00	96.75		End of pit at 3.00 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP201
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431551.34 - 407862.92 Level: 88.90	Date 25/11/2021
Location: South Yorkshire		Dimensions (m): Depth 2.90; 3 × 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone and rare coal and pottery. Occasional rootlets. (MADE GROUND TOPSOIL)
				0.30	88.60		
	0.40	J&T	HVP=72				MADE GROUND: Light brown mottled grey gravelly CLAY. Gravel is angular to subangular fine to medium of mudstone and siltstone. (COHESIVE MADE GROUND)
				0.50	88.40		MADE GROUND: Grey gravelly slightly sandy CLAY. Gravel is angular to subangular fine to coarse of mudstone. Low subangular mudstone cobble content. (COHESIVE OPENCAST BACKFILL)
	0.80	D&B					*From 1.3m greyish brown in colour.*
				2.90	86.00		End of pit at 2.90 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

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Trial Pit Log

Trialpit No
TP202
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431595.73 - 407854.87 Level: 87.60	Date 25/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.10, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	D&B					MADE GROUND: Brown silty slightly sandy CLAY. (MADE GROUND TOPSOIL)
				0.30	87.30		
	0.40	D		0.45	87.15		MADE GROUND: Light brown mottled grey slightly gravelly CLAY. Gravel is subangular medium of mudstone and siltstone. (COHESIVE MADE GROUND)
	0.60	J&T					MADE GROUND: Grey sandy gravelly CLAY. Gravel is subangular fine to coarse of mudstone and rare siltstone and sandstone. (COHESIVE OPENCAST BACKFILL)
				1.20	86.40		MADE GROUND: Brownish grey very gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone. Low subangular mudstone cobble content. Rare angular tabular small mudstone and siltstone boulder content. (COHESIVE OPENCAST BACKFILL)
				3.10	84.50		End of pit at 3.10 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP203
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431658.63 - 407881.80 Level: 84.00	Date 25/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.40	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.40	83.60		MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
	0.70	J&T					MADE GROUND: Grey gravelly CLAY. Gravel is angular tabular fine to coarse of mudstone and siltstone. Low subangular mudstone cobble content. (COHESIVE OPENCAST BACKFILL)
							At 0.4m intermittent layer of brown clay across base of Topsoil.
	0.90	D					*1.2m Terracotta land drain excavated with some water inflow.*
	3.20	D					
				3.40	80.60		End of pit at 3.40 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP204
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431674.79 - 407840.17 Level: 85.05	Date 25/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.00 — 3 × 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown silty CLAY. Occasional rootlets. (MADE GROUND TOPSOIL)
	0.40	D		0.35	84.70		MADE GROUND: Light brown mottled grey CLAY. (COHESIVE MADE GROUND)
	0.60	J&T		0.50	84.55		MADE GROUND: Grey, occasionally brownish grey, very clayey slightly sandy angular to subangular fine to coarse GRAVEL of mudstone, occasional siltstone and rare sandstone and coal. Low subangular mudstone cobble content. Rare subangular small siltstone and mudstone boulders. (GRANULAR OPENCAST BACKFILL)
							From 1.6m little spalling of trial pit walls.
				3.00	82.05		End of pit at 3.00 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit spalled during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP205
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431613.39 - 407825.30 Level: 88.25	Date 25/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 2.90	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is subangular fine of mudstone and rare pottery. (MADE GROUND TOPSOIL)
				0.30	87.95		
				0.40	87.85		MADE GROUND: Light brown mottled grey slightly gravelly CLAY. Gravel is angular to subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
	0.50	J&T					
	0.80	D&B					MADE GROUND: Grey very clayey angular to subangular fine to coarse GRAVEL of mudstone and occasional siltstone, sandstone and coal. Low angular tabular mudstone cobble content. (GRANULAR OPENCAST BACKFILL)
							From 1.8m little spalling of trial pit walls.
				2.90	85.35		End of pit at 2.90 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit spalled during excavation.

AGS

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Trial Pit Log

Trialpit No
TP206
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431583.72 - 407806.52 Level: 90.15	Date 26/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.70	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown silty slightly sandy CLAY. Rare subangular fine gravel of mudstone and coal. Occasional rootlets. (MADE GROUND TOPSOIL)
				0.35	89.80		MADE GROUND: Light brown mottled grey slightly gravelly CLAY. Gravel is subangular to angular fine to medium of mudstone. (COHESIVE MADE GROUND)
				0.55	89.60		MADE GROUND: Grey very clayey slightly sandy angular to subangular fine to coarse GRAVEL of mudstone and occasional siltstone and sandstone. Low subangular mudstone cobble content. (GRANULAR OPENCAST BACKFILL)
	0.80	D					
	1.00	J&T					
							From 1.4m little spalling of trial pit walls.
				1.70	88.45		MADE GROUND: Brown gravelly CLAY. Gravel is subangular fine to medium of mudstone. Rare fragment of rope. (COHESIVE OPENCAST BACKFILL)
				3.70	86.45		End of pit at 3.70 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit spalled during excavation.

AGS

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Trial Pit Log

Trialpit No
TP207
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431550.66 - 407810.83 Level: 91.45	Date 26/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.40	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	D&B		0.30	91.15		MADE GROUND: Greyish brown silty CLAY. Some rootlets. (MADE GROUND TOPSOIL)
	0.70	D&B		1.80	89.65		MADE GROUND: Greyish brown gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone and mudstone lithorelicts. Low subangular mudstone cobble content. (COHESIVE MADE GROUND)
				3.40	88.05		MADE GROUND: Grey very gravelly CLAY. Gravel is angular fine to coarse of mudstone. Low subangular mudstone cobble content. (COHESIVE OPENCAST BACKFILL)
							End of pit at 3.40 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP207W
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431550.66 - 407810.83 Level: 91.45	Date 01/12/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 4.20	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
				0.30	91.15		MADE GROUND: Firm greyish brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone and ironstone. (COHESIVE MADE GROUND) *At 0.3m, stiff orange mottled grey silty slightly gravelly CLAY present in East of pit but disappears to West.*
				2.60	88.85		MADE GROUND: Stiff grey mottled brownish grey gravelly silty CLAY. Gravel is angular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL) *From 3.8m to 4.0m, clay is mixed with an orange mottled grey secondary type of clay.*
				4.00	87.45		Extremely weak black vitreous COAL. Recovered as angular fine to medium gravel. (THIN COAL)
				4.10	87.35		Stiff grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (SEAT EARTH)
				4.20	87.25		End of pit at 4.20 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP208
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431531.22 - 407784.91 Level: 93.15	Date 25/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.30	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10 0.10	B J&T					MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
				0.30	92.85		MADE GROUND: Stiff grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL)
							From 0.9m, a low cobble content of angular mudstone.
	1.30	J&T					
	2.50	D					
				3.30	89.85		End of pit at 3.30 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable between 0.9m and 1.5m depth during excavation with some overbreak in the granular strata.

AGS

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Trial Pit Log

Trialpit No
TP209
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431548.93 - 407745.54 Level: 93.85	Date 26/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.80	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Brownish grey silty slightly sandy CLAY. Occasional rootlets. (MADE GROUND TOPSOIL)
	0.30	J&T		0.25	93.60		MADE GROUND: Stiff light brown mottled grey CLAY. (COHESIVE MADE GROUND)
	0.70	D&B		0.50	93.35		MADE GROUND: Grey, occasionally greyish brown, very gravelly slightly sandy CLAY. Gravel is angular to subangular, predominantly tabular, fine to coarse of mudstone and occasional siltstone. Low subangular mudstone cobble content. (COHESIVE OPENCAST BACKFILL)
							1.3m to 2.0m lens of firm brown CLAY in northern end of trial pit.
				3.80	90.05		End of pit at 3.80 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP210
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431578.64 - 407779.03 Level: 91.35	Date 26/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.40, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	91.05		MADE GROUND: Greyish brown silty CLAY. Rare subangular fine gravel of mudstone and pottery. Occasional rootlets. (MADE GROUND TOPSOIL)
	0.50	D&B		0.60	90.75		MADE GROUND: Brown mottled grey slightly gravelly CLAY. Gravel is angular to subangular tabular fine of mudstone. (COHESIVE MADE GROUND)
	0.80	J&T		1.60	89.75		MADE GROUND: Brownish grey very gravelly CLAY. Gravel is angular to subrounded fine to coarse of mudstone and occasional siltstone. (COHESIVE OPENCAST BACKFILL)
	3.00	D		3.40	87.95		MADE GROUND: Grey clayey slightly sandy angular to subangular fine to coarse GRAVEL of mudstone and siltstone. Low subangular mudstone cobble content. (GRANULAR OPENCAST BACKFILL)
							End of pit at 3.40 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP211
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431623.64 - 407773.65 Level: 89.80	Date 26/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.20, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown sandy silty CLAY. Some rootlets. (MADE GROUND TOPSOIL)
				0.30	89.50		
	0.40	J&T					MADE GROUND: Light brown mottled grey CLAY. (COHESIVE MADE GROUND)
				0.55	89.25		
	0.70	J&T					MADE GROUND: Grey very clayey angular to subangular fine to coarse GRAVEL of mudstone and rare pottery, coal and siltstone. (GRANULAR OPENCAST BACKFILL)
				1.10	88.70		Stiff brown mottled grey and orangish brown very gravelly CLAY. Gravel is angular tabular fine of mudstone. (COHESIVE RESIDUAL SOIL)
	1.50	D					
				2.30	87.50		Weak brittle black bright COAL. (THIN COAL)
	2.50	J&T					
				2.90	86.90		Firm light grey very gravelly CLAY. Gravel is angular tabular fine of mudstone lithorelicts. (SEAT EARTH)
				3.20	86.60		End of pit at 3.20 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP212
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431668.48 - 407761.98 Level: 88.35	Date 26/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.60, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone and rare sandstone and brick. (MADE GROUND TOPSOIL)
	0.50	D		0.40	87.95		MADE GROUND: Light brown mottled grey CLAY. (COHESIVE MADE GROUND)
				0.60	87.75		MADE GROUND: Grey very clayey slightly sandy angular to subangular fine to coarse GRAVEL of mudstone. (GRANULAR OPENCAST BACKFILL)
				0.90	87.45		MADE GROUND: Brown very gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone , siltstone, sandstone and rare coal. Low subangular siltstone cobble content. (COHESIVE OPENCAST BACKFILL)
				2.10	86.25		Firm orangish brown very gravelly CLAY. Gravel is very angular tabular fine of mudstone. (COHESIVE RESIDUAL SOIL)
	2.50	D		2.80	85.55		Weak brittle black bright COAL. (THIN COAL)
				3.30	85.05		Firm light grey very gravelly CLAY. Gravel is angular tabular fine of mudstone lithorelicts. (SEAT EARTH)
				3.60	84.75		End of pit at 3.60 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP213
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431701.84 - 407766.90 Level: 87.00	Date 26/11/2021
Location: South Yorkshire		Dimensions (m): Depth 2.70; 3 × 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown silty CLAY. Occasional rootlets. (MADE GROUND TOPSOIL)
				0.30	86.70		
				0.40	86.60		MADE GROUND: Brown mottled grey CLAY. (COHESIVE MADE GROUND)
	0.50	J&T					MADE GROUND: Grey very gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone. Low angular tabular mudstone cobble content. (COHESIVE OPENCAST BACKFILL)
	0.60	D&B					*0.7m Terracotta land drain excavated; no water ingress.*
				2.70	84.30		End of pit at 2.70 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP214
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431682.69 - 407805.74 Level: 86.35	Date 26/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.30	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.30	86.05		MADE GROUND: Greyish brown slightly gravelly CLAY. Gravel is angular to subangular fine to medium of mudstone. Occasional rootlets. (MADE GROUND TOPSOIL)
	0.50	D					MADE GROUND: Grey very clayey very angular to subangular fine to coarse GRAVEL of mudstone and siltstone. Rare angular mudstone cobbles. (GRANULAR OPENCAST BACKFILL) *0.3m intermittent bed of light brown clay at base of Topsoil.*
							From 3.0m brown in colour.
				3.30	83.05		End of pit at 3.30 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP215
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431642.59 - 407804.26 Level: 87.90	Date 26/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.30	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.35	87.55		MADE GROUND: Greyish brown silty CLAY. Occasional rootlets. (MADE GROUND TOPSOIL)
	0.40	J&T		0.45	87.45		MADE GROUND: Light brown mottled grey CLAY. (COHESIVE MADE GROUND)
	0.80	D&B					MADE GROUND: Grey very gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone. Low subangular mudstone cobble content. (COHESIVE OPENCAST BACKFILL)
							From 1.7m greyish brown in colour.
							From 2.0m medium cobble content with little overbreak and spalling of trial pit walls.
				3.30	84.60		End of pit at 3.30 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit spalled during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP216
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431593.81 - 407739.88 Level: 92.25	Date 26/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.40	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	D&B					MADE GROUND: Greyish brown silty slightly sandy CLAY. Occasional rootlets. (MADE GROUND TOPSOIL)
				0.30	91.95		MADE GROUND: Light brown CLAY. (COHESIVE MADE GROUND)
				0.60	91.65		MADE GROUND: Grey very gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone, occasional siltstone and rare sandstone, pottery and coal. Low angular mudstone cobble content. (COHESIVE OPENCAST BACKFILL)
	0.80	J&T					
				2.70	89.55		Firm orangish brown mottled grey silty gravelly CLAY. Gravel is very angular tabular fine of siltstone. (COHESIVE RESIDUAL SOIL)
	2.90	D					*From 3.0m grey in colour.*
				3.40	88.85		End of pit at 3.40 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP217
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431565.93 - 407708.92 Level: 94.85	Date 29/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.40, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	94.55		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is angular to subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
			HVP=112				MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
			HVP=122				
	0.80	D		0.90	93.95		MADE GROUND: Stiff grey gravelly silty CLAY. Gravel is fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL)
	1.50	D&B					
	2.20	D					
				3.30	91.55		Moderately strong orangish brown SILTSTONE. Recovered as angular tabular fine to coarse gravel. High cobble content. (COAL MEASURES)
				3.40	91.45		End of pit at 3.40 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP218
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431608.07 - 407706.95 Level: 93.35	Date 29/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.30, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T		0.30	93.05		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is angular to subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
			HVP=120	0.80	92.55		MADE GROUND: Stiff locally firm orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to coarse of mudstone. (COHESIVE MADE GROUND)
							MADE GROUND: Stiff grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COLLIERY SPOIL)
							From 0.7m, too gravelly for vanes.
							At 1.2m, numerous boulders of subangular mudstone. (0.4m x 0.4m x 0.3m)(0.4m x 0.5m x0.3m)(1.1m x 0.5m x 0.2m).
							From 1.2m, a medium cobble content of subangular mudstone.
	2.00	J&T					*From 2.0m, boulders stop.*
				3.30	90.05		End of pit at 3.30 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable between 0.8m and 2.0m depth during excavation with some overbreak in the granular strata.

AGS

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Trial Pit Log

Trialpit No
TP219
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431641.59 - 407726.50 Level: 91.00	Date 29/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 3.60	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10 0.10	B J&T					MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
			HVP=86	0.30	90.70		MADE GROUND: Firm locally stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
				0.50	90.50		MADE GROUND: Firm grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL) *Below 0.5m, too gravelly for vanes.*
	1.20	J&T					*From 2.0m, a medium cobble content of angular mudstone.*
				3.60	87.40		End of pit at 3.60 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP220**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431641.30 - 407692.15 Level: 92.90	Date 29/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.30, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	92.60		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
			HVP=140	0.70	92.20		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
	1.00	D&B					MADE GROUND: Stiff grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL) *From 1.0m, a high cobble content of angular mudstone.*
				1.70	91.20		MADE GROUND: Grey clayey angular fine to coarse GRAVEL of mudstone. High cobble content of angular mudstone. (GRANULAR OPENCAST BACKFILL)
	2.50	D		2.30	90.60		MADE GROUND: Stiff orangish brown and grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone, carbonaceous mudstone and coal. (COHESIVE OPENCAST BACKFILL) *Below 2.3m, too gravelly for vanes.*
				3.30	89.60		End of pit at 3.30 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP221
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431675.89 - 407712.38 Level: 90.75	Date 29/11/2021
Location: South Yorkshire		Dimensions (m): 3 x 0.6, Depth 3.50	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	J&T					MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to coarse of mudstone. (MADE GROUND TOPSOIL)
			HVP=103	0.30	90.45		MADE GROUND: Firm locally stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to coarse of mudstone. (COHESIVE MADE GROUND)
	0.70	D		0.50	90.25		MADE GROUND: Stiff to very stiff grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL) *Below 0.5m, too gravelly for vanes.* *At 0.9m, Boulder of mudstone. Cannot excavate through. Trench extended to West.*
	1.00	J&T					
				1.30	89.45		MADE GROUND: COARSE SOIL: Orangish brown subangular small to medium BOULDERS of mudstone with many subangular cobbles of mudstone and siltstone. With some finer material of clay with some subangular fine to coarse mudstone gravel. (GRANULAR OPENCAST BACKFILL) *At 1.3m, numerous boulders of subangular mudstone. (0.9m x 0.5m x 0.5m)(0.6m x 0.3m x 0.5m)(0.5m x 0.2m x 0.8m).*
				1.50	89.25		
	2.00	J&T					MADE GROUND: Stiff grey gravelly silty CLAY. Gravel is subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL) *From 1.8m, sulphurous smell evident in CLAY.* *From 1.8m, no blocks for vanes.*
				3.50	87.25		End of pit at 3.50 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit were unstable between 0.5m and 1.8m depth during excavation with some overbreak in the granular strata.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP222
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431717.06 - 407731.53 Level: 88.25	Date 29/11/2021
Location: South Yorkshire		Dimensions (m): 3 × 0.6, Depth 4.40	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
	0.10	D&B					MADE GROUND: Greyish brown silty slightly gravelly CLAY. Gravel is angular to subangular fine of mudstone and occasional sandstone. Some rootlets. (MADE GROUND TOPSOIL)
			HVP=80	0.30	87.95		MADE GROUND: Firm light brown mottled grey slightly gravelly CLAY. Gravel is subangular fine to medium of mudstone. Rare subangular small siltstone boulder. (COHESIVE MADE GROUND)
				0.50	87.75		MADE GROUND: Greyish brown slightly clayey angular tabular fine to coarse GRAVEL of siltstone. High angular tabular siltstone cobble content. High angular tabular small siltstone boulder content. (GRANULAR OPENCAST BACKFILL)
	0.80	D&B					
				1.40	86.85		MADE GROUND: Greyish brown very gravelly CLAY. Gravel is angular to subangular fine to medium of mudstone and occasional siltstone, sandstone and coal. Medium subangular cobble content. (COHESIVE OPENCAST BACKFILL)
				4.40	83.85		End of pit at 4.40 m

1 2 3 4 5

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No **TP223**

Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431622.32 - 407664.06 Level: 94.80	Date 29/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.40, 3, 0.6	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	94.50		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
	0.50	D	HVP=90	0.60	94.20		MADE GROUND: Firm locally stiff orange mottled grey silty slightly gravelly CLAY. Gravel is subangular fine to coarse of mudstone. (COHESIVE MADE GROUND)
							MADE GROUND: Stiff grey gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL)
							From 0.6m, too gravelly for vanes.
	2.00	D&B	HVP=99				*At 3.0m, fragment of wood.*
				3.40	91.40		End of pit at 3.40 m

Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TP224
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431590.60 - 407670.04 Level: 95.60	Date 29/11/2021
Location: South Yorkshire		Dimensions (m): Depth 3.00; 3 × 0.6	Scale 1:25
Client: Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.35	95.25		MADE GROUND: Dark greyish brown silty slightly gravelly CLAY. Gravel is angular to subangular fine of mudstone and occasional sandstone, siltstone and pottery. Some rootlets. (MADE GROUND TOPSOIL)
	0.50	J,K&T		0.60	95.00		MADE GROUND: Stiff light brown mottled grey gravelly CLAY. Gravel is subangular fine to medium of mudstone. (COHESIVE MADE GROUND)
	0.90	J,K&T					MADE GROUND: Brownish grey very clayey angular to subangular fine to coarse GRAVEL of mudstone. High subangular mudstone cobble content. High subangular small to medium mudstone and siltstone boulder content. (GRANULAR OPENCAST BACKFILL)
							1.2m inflow of groundwater.
							From 1.4m difficult to excavate due to oversized materials.
				2.20	93.40		MADE GROUND: Firm grey very gravelly CLAY. Gravel is angular to subangular fine to coarse of mudstone. (COHESIVE OPENCAST BACKFILL)
	2.50	D&B					
				3.00	92.60		End of pit at 3.00 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater inflow from 1.4m during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TT005W
Sheet 1 of 1

Project Name:	Barnsley West (LT1)	Project No. 3104	Co-ords: - Level:	Date 18/11/2021
Location:	South Yorkshire	Dimensions (m): Depth 3.00	4 / 0.6	Scale 1:25
Client:	Strata Homes			Logged GLM

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							MADE GROUND: Greyish brown gravelly CLAY. Gravel is subangular fine to coarse of siltstone and rare pottery. Occasional rootlets. (MADE GROUND TOPSOIL)
				0.30			MADE GROUND: Grey very gravelly CLAY. Gravel is subangular fine to coarse of mudstone. Low subangular mudstone cobble content and medium subangular mudstone and siltstone boulder content. (COHESIVE MADE GROUND) *At 0.5m, sandstone boulders up to 1.0m diameter in centre of trench.*
				1.20			Stiff brown mottled grey gravelly CLAY. Gravel is angular tabular fine to medium of siltstone lithorelicts. (COHESIVE OPENCAST BACKFILL)
				3.00			End of pit at 3.00 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TT001NW
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431331.35 - 407666.42 Level: 107.30	Date 17/11/2021
Location: South Yorkshire		Dimensions (m): Depth 2.60, 0.6, 4	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	107.00		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone and siltstone. (MADE GROUND TOPSOIL)
				0.60	106.70		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to medium of mudstone and siltstone. (COHESIVE MADE GROUND)
				1.40	105.90		Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to medium of siltstone and occasional coal. (COHESIVE RESIDUAL SOIL)
				2.50	104.80		Grey silty clayey angular tabular fine to medium GRAVEL of siltstone. (GRANULAR RESIDUAL SOIL)
				2.60	104.70		Moderately strong grey MUDSTONE. Recovered as angular cobbles with much angular fine to medium gravel. (COAL MEASURES)
							End of pit at 2.60 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TT001SE
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431331.35 - 407666.42 Level: 107.30	Date 17/11/2021
Location: South Yorkshire		Dimensions (m): 4 × 0.6, Depth 3.50	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone and siltstone. (MADE GROUND TOPSOIL)
			HVP=142	0.30	107.00		MADE GROUND: Stiff orange and grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to medium of mudstone siltstone and ironstone. (COHESIVE MADE GROUND)
				1.30	106.00		MADE GROUND: Grey silty clayey angular tabular fine to coarse GRAVEL of mudstone. Medium cobble content of angular mudstone. (GRANULAR OPENCAST BACKFILL)
				2.30	105.00		MADE GROUND: Brownish grey angular tabular fine to coarse GRAVEL of siltstone. Low cobble content of angular mudstone. (GRANULAR OPENCAST BACKFILL)
				3.50	103.80		End of pit at 3.50 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS

LITHOS CONSULTING

Trial Pit Log

Trialpit No
TT002NW
Sheet 1 of 1

Project Name: Barnsley West (LT1)	Project No. 3104	Co-ords: 431323.06 - 407654.52 Level: 108.40	Date 17/11/2021
Location: South Yorkshire		Dimensions (m): Depth 1.80, 0.6 × 4	Scale 1:25
Client: Strata Homes			Logged AT

Water Strike	Samples and In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.30	108.10		MADE GROUND: Greyish brown silty slightly gravelly CLAY with frequent rootlets. Gravel is subangular fine to medium of mudstone. (MADE GROUND TOPSOIL)
				0.70	107.70		MADE GROUND: Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is angular to subangular fine to medium of mudstone and siltstone. (COHESIVE MADE GROUND)
				1.30	107.10		Stiff orange mottled grey silty slightly gravelly CLAY. Gravel is angular fine of siltstone. (COHESIVE RESIDUAL SOIL)
				1.70	106.70		Extremely weak black vitreous COAL. Recovered as subangular fine to medium gravel. (THIN COAL)
				1.80	106.60		Grey clayey angular tabular fine to coarse GRAVEL of mudstone. (GRANULAR RESIDUAL SOIL)
							End of pit at 1.80 m

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Remarks: 1. Prior to excavation a Cable Avoidance Tool (CAT) survey was carried out. 2. Groundwater was not apparent during excavation. 3. Backfilled with materials arising upon completion. 4. Exploratory hole surveyed in (level and co-ordinates) on completion.

Stability: 1. The sides of the trial pit remained stable during excavation.

AGS