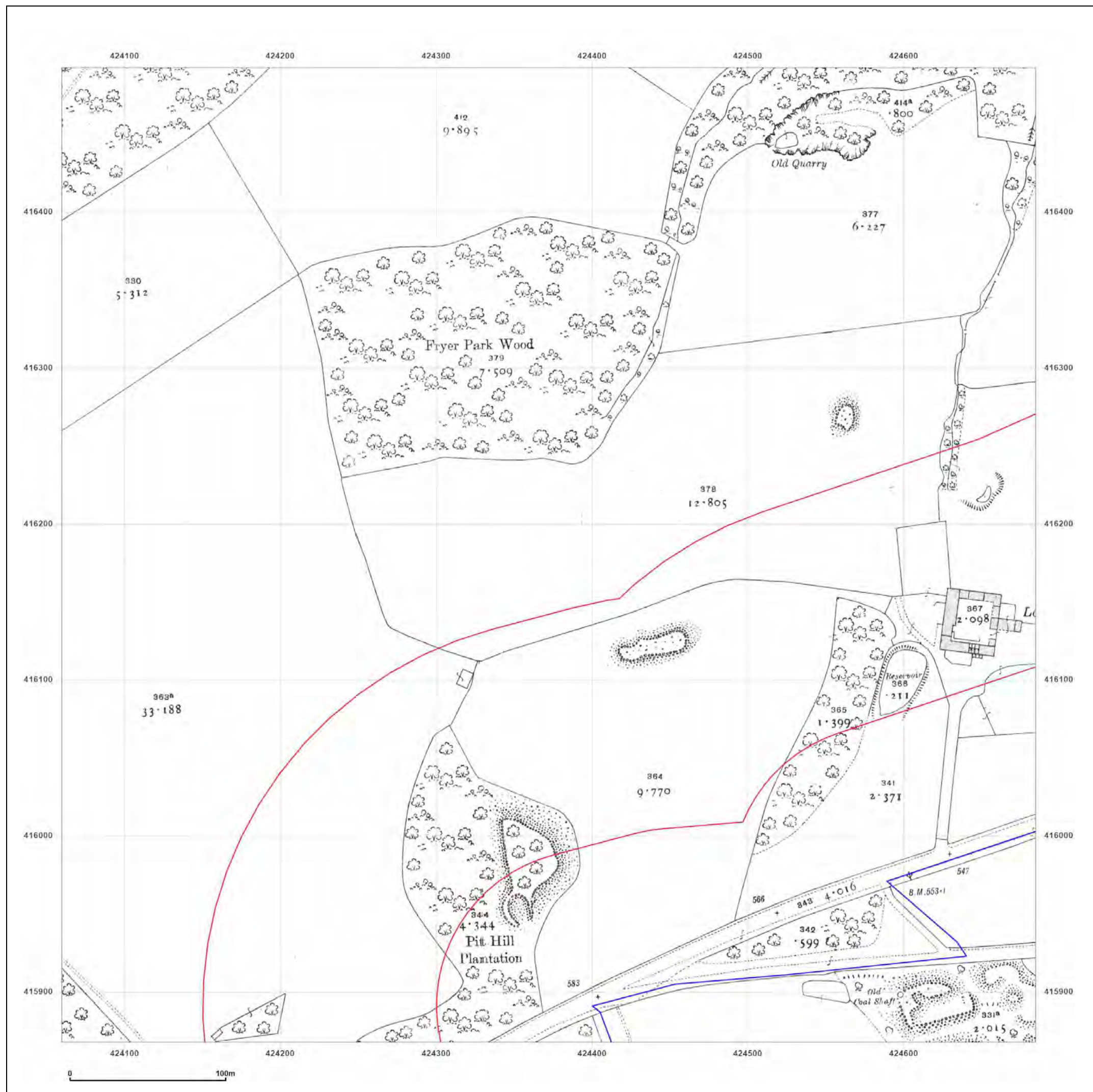


Appendix D.3

PARCEL 4





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874486_LS_1_2
Grid Ref: 424372, 416180

Map Name: County Series

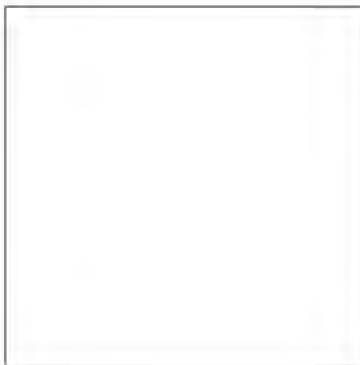
Map date: 1919

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1919
 Revised 1919
 Edition N/A
 Copyright N/A
 Levelled N/A



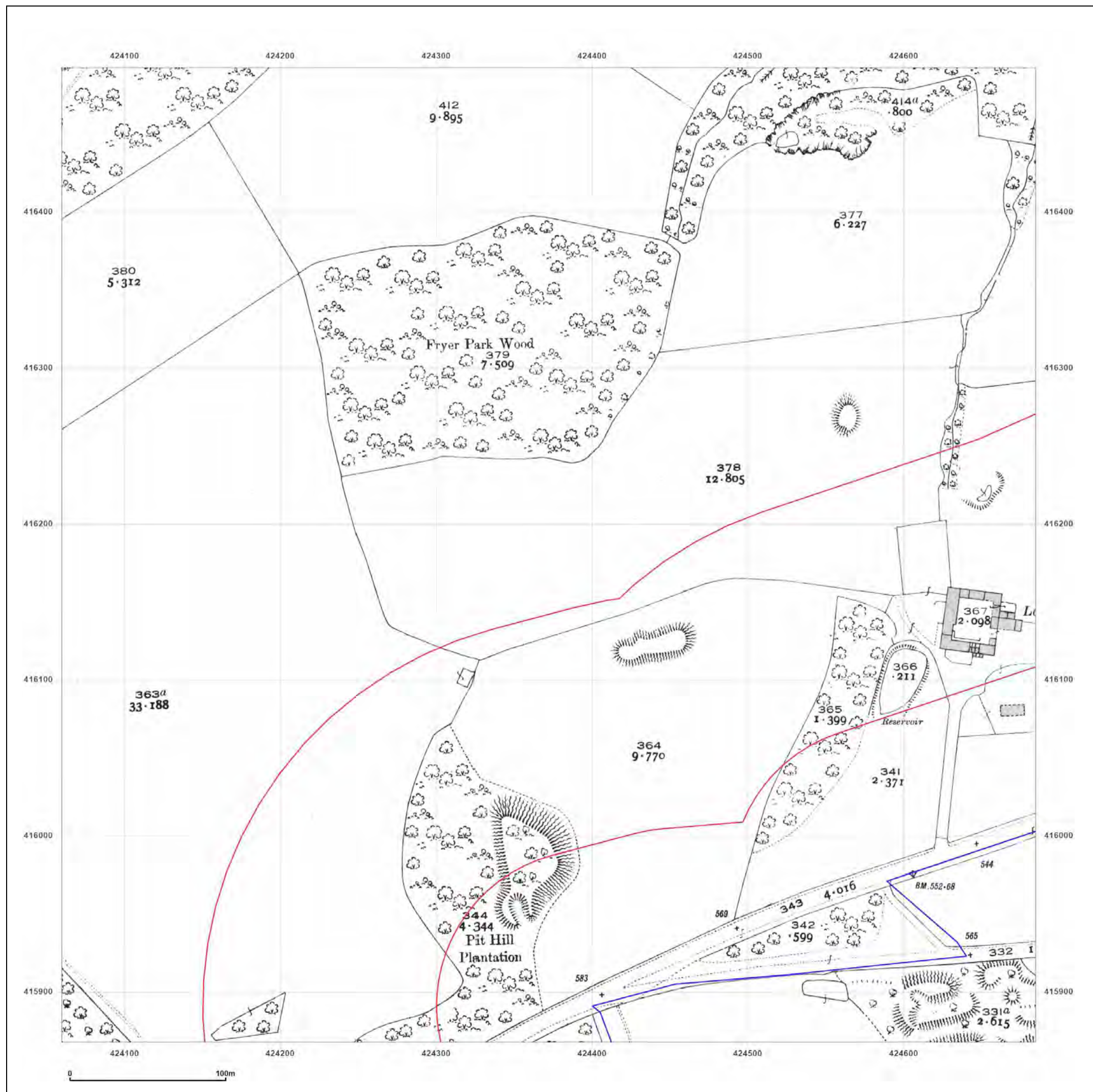
Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com



© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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



Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874486_LS_1_2
Grid Ref: 424372, 416180

Map Name: County Series

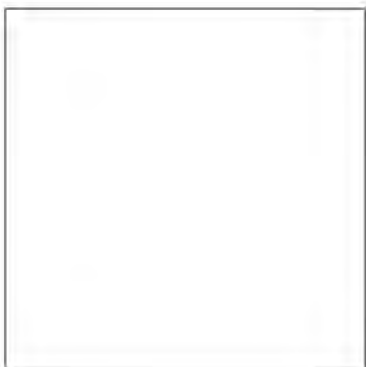
Map date: 1932

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1932
 Revised 1932
 Edition N/A
 Copyright N/A
 Levelled N/A

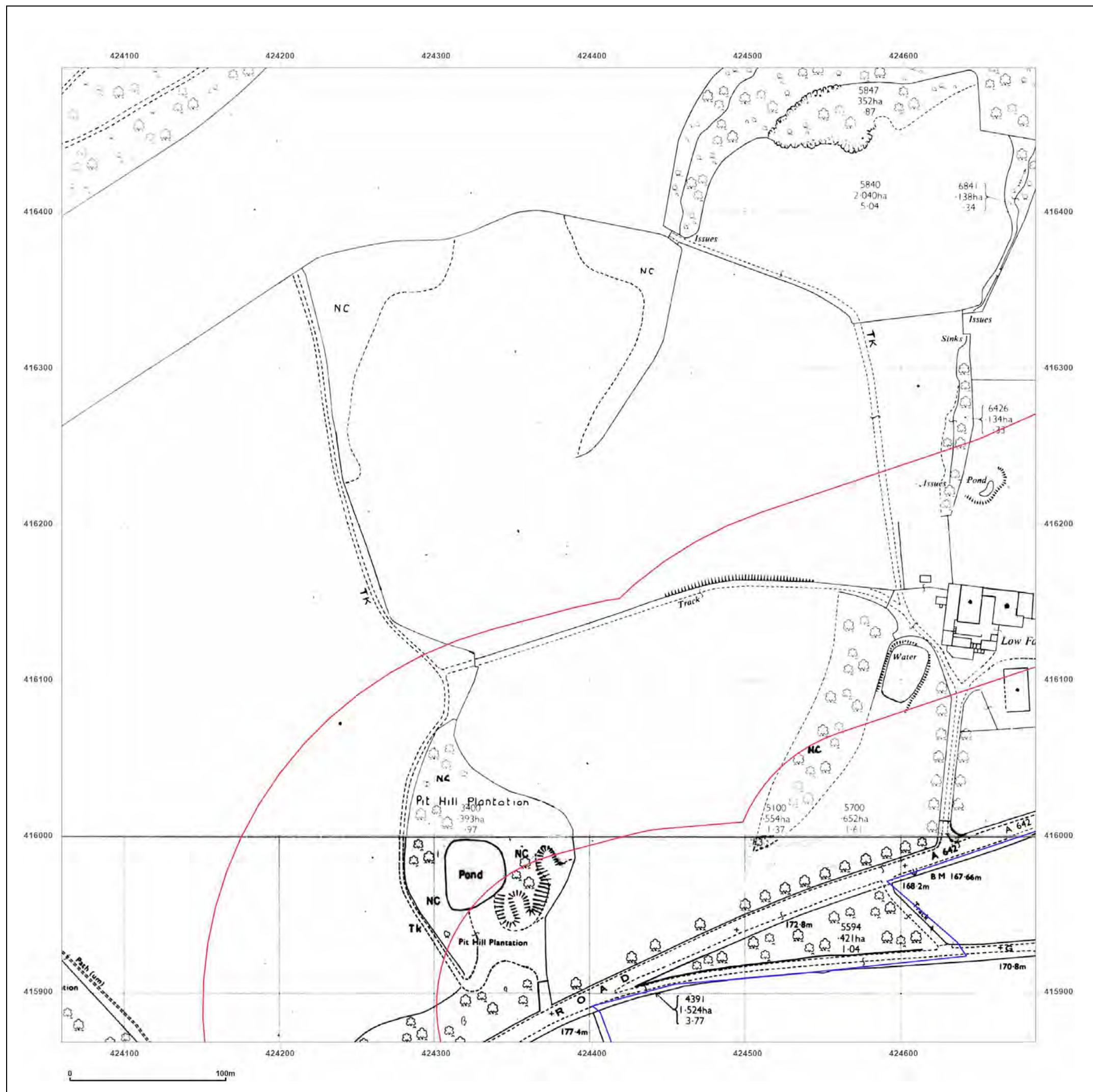


Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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



Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874486_LS_1_2
Grid Ref: 424372, 416180

Map Name: National Grid

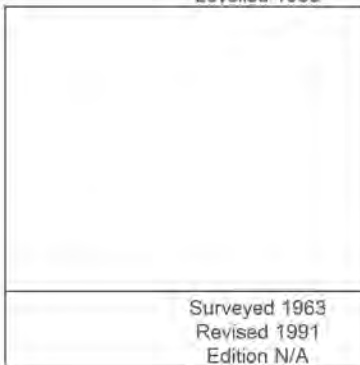
Map date: 1991

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1963
 Revised 1991
 Edition N/A
 Copyright 1991
 Levelled 1963



Surveyed 1963
 Revised 1991
 Edition N/A
 Copyright 1991
 Levelled 1963

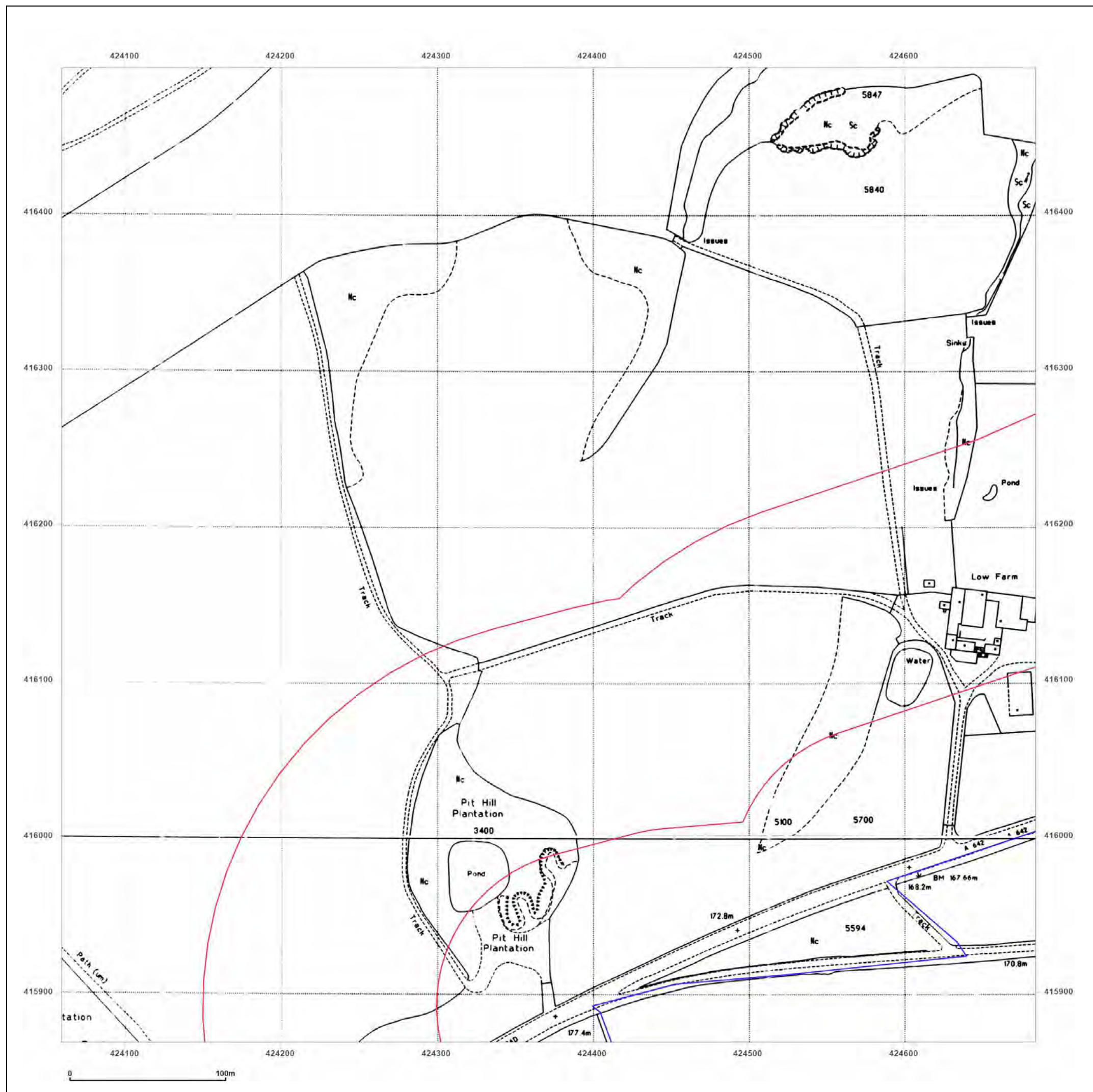


Produced by
 Groundsure Insights
 T: 08444 159000
 E: info@groundsure.com
 W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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



Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874486_LS_1_2
Grid Ref: 424372, 416180

Map Name: National Grid

Map date: 1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

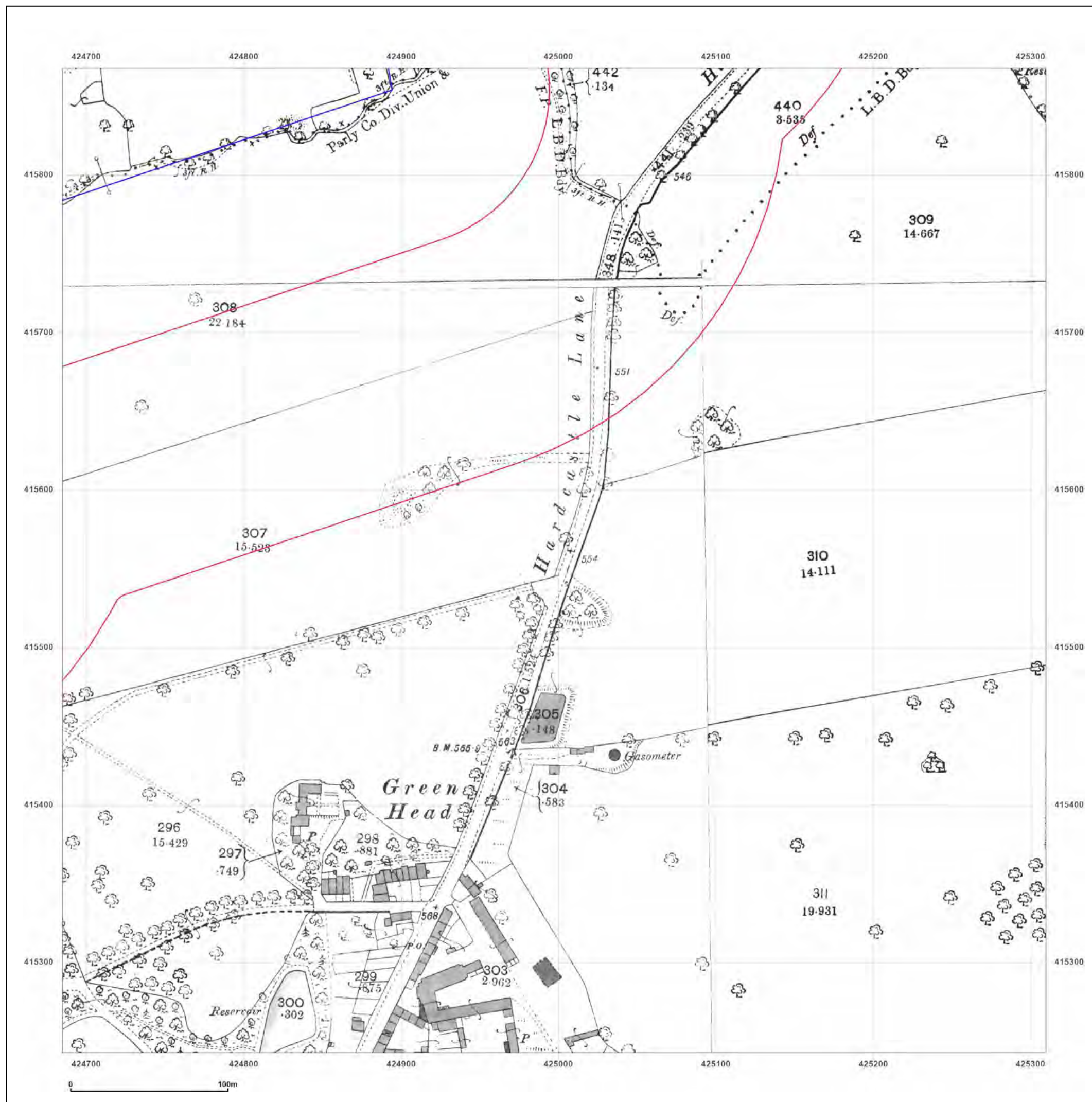


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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



Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874486_LS_2_1
Grid Ref: 424997, 415555

Map Name: County Series

Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1893
 Revised 1893
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1893
 Revised 1893
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1893
 Revised 1893
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1893
 Revised 1893
 Edition N/A
 Copyright N/A
 Levelled N/A



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

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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



Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874486_LS_2_1
Grid Ref: 424997, 415555

Map Name: County Series

Map date: 1906-1907

Scale: 1:2,500

Printed at: 1:2,500

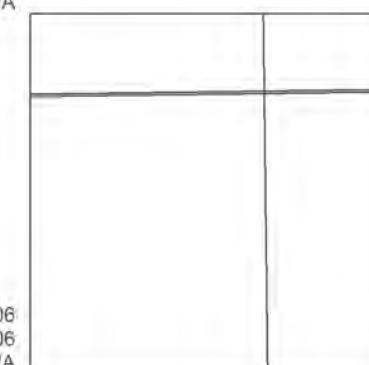


Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

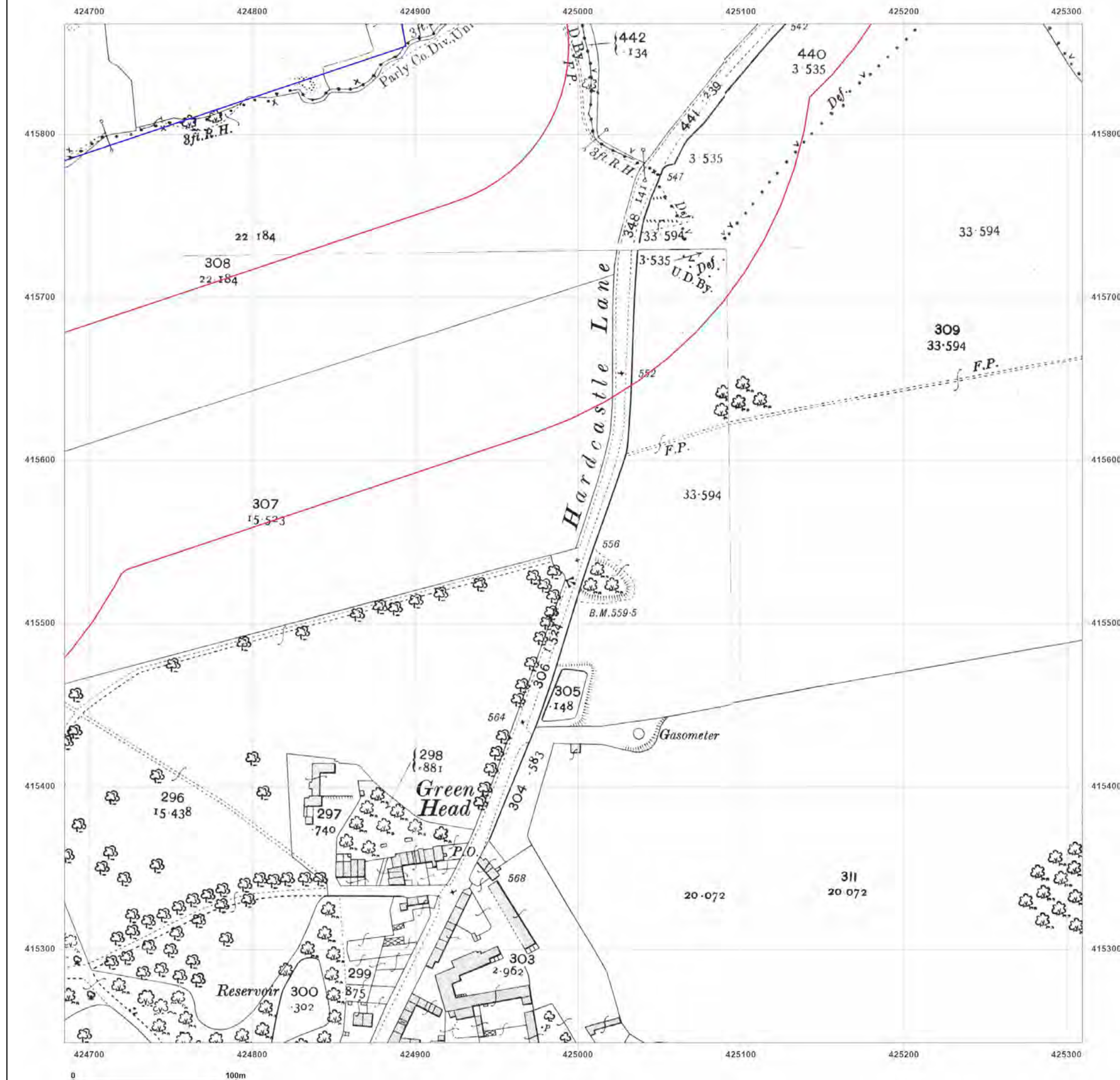


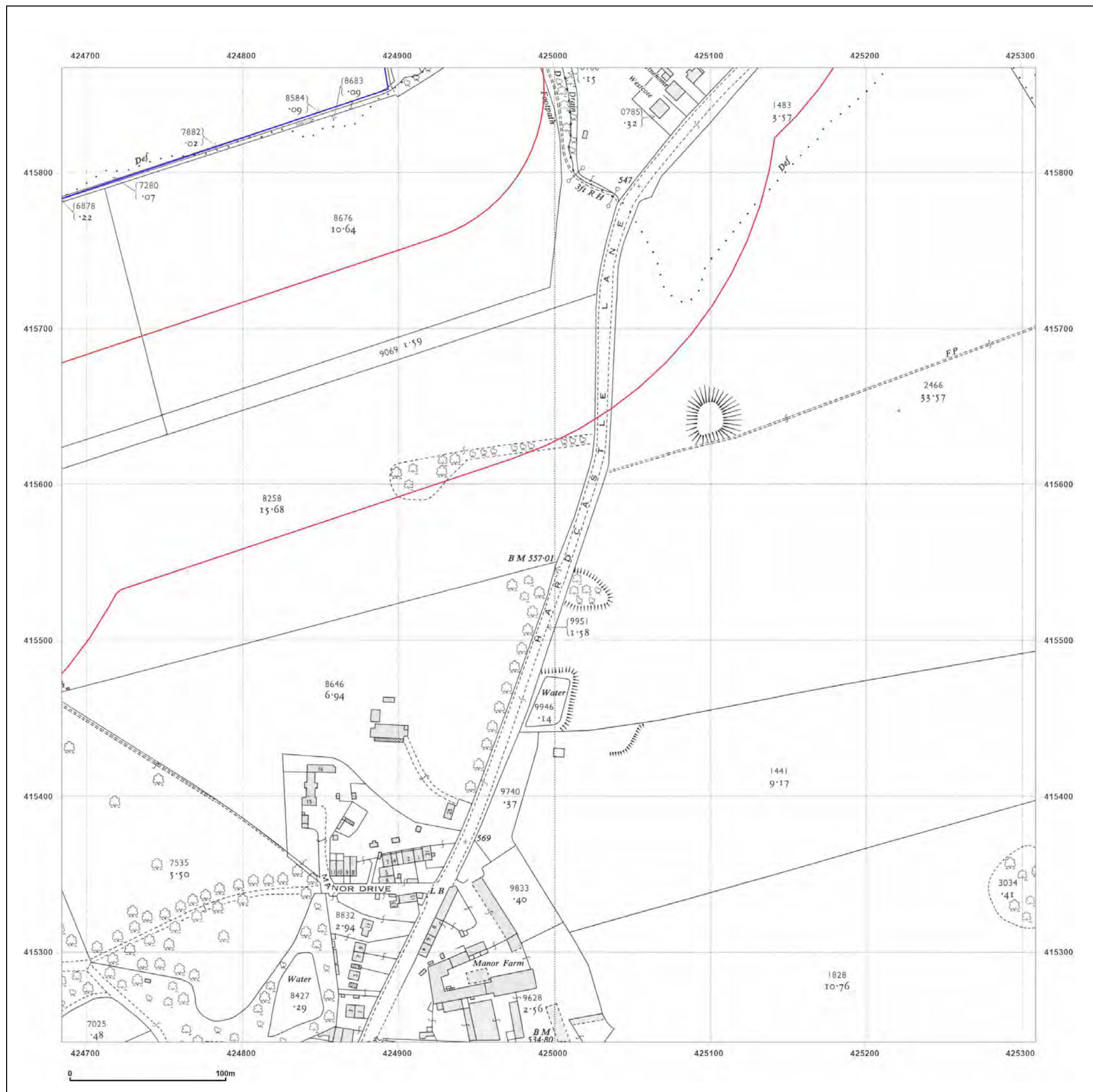
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874486_LS_2_1
Grid Ref: 424997, 415555

Map Name: National Grid

Map date: 1960

Scale: 1:2,500

Printed at: 1:2,500



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

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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



Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874486_LS_2_1
Grid Ref: 424997, 415555

Map Name: National Grid

Map date: 1974

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1974
Revised 1974
Edition N/A
Copyright 1975
Levelled 1963



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



© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874486_LS_2_1
Grid Ref: 424997, 415555

Map Name: National Grid

Map date: 1991-1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1963
Revised 1991
Edition N/A
Copyright 1991
Levelled 1963

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

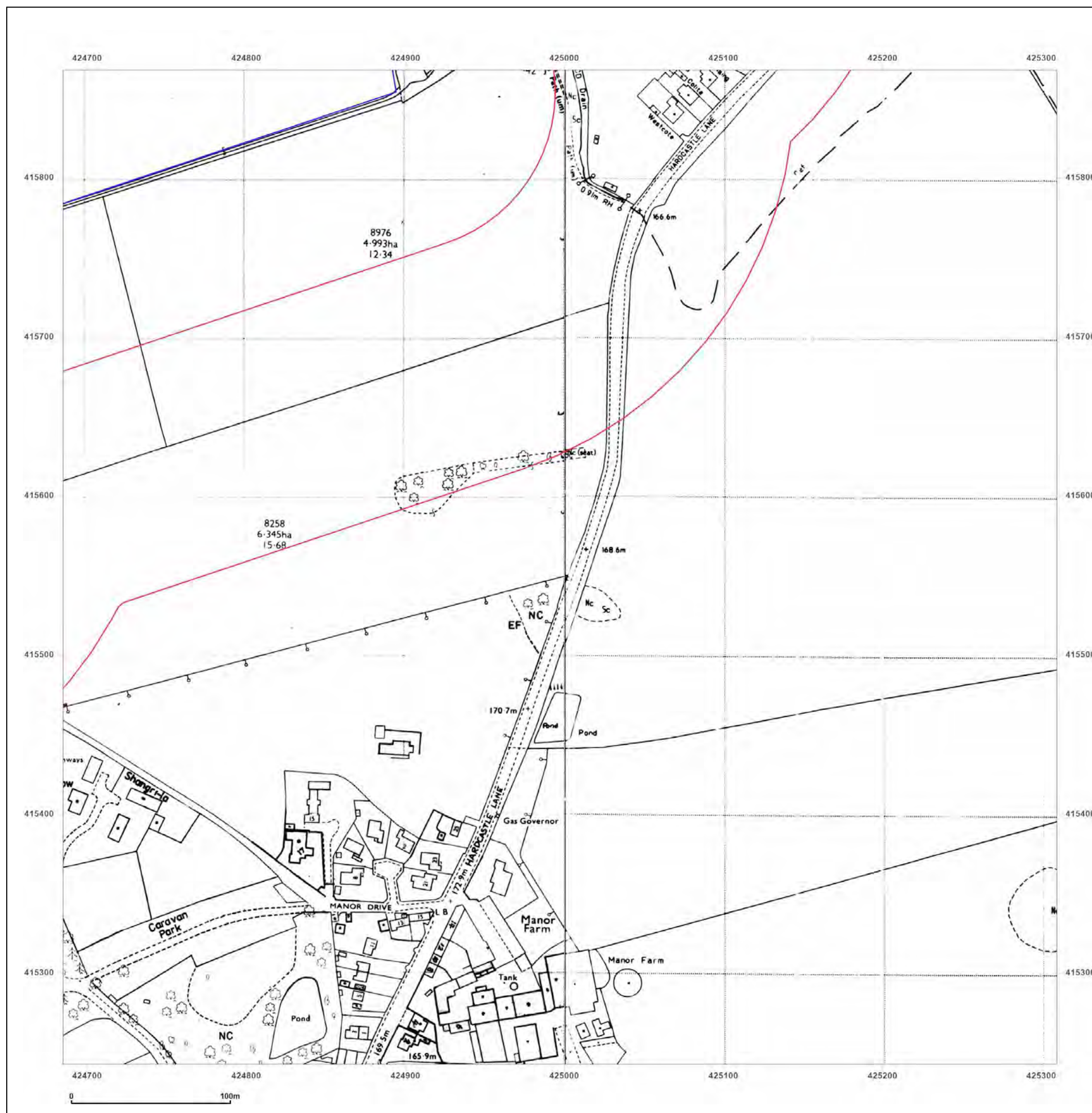


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874486_LS_2_2
Grid Ref: 424997, 416180

Map Name: County Series

Map date: 1893

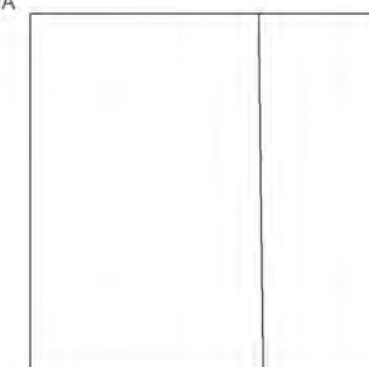
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

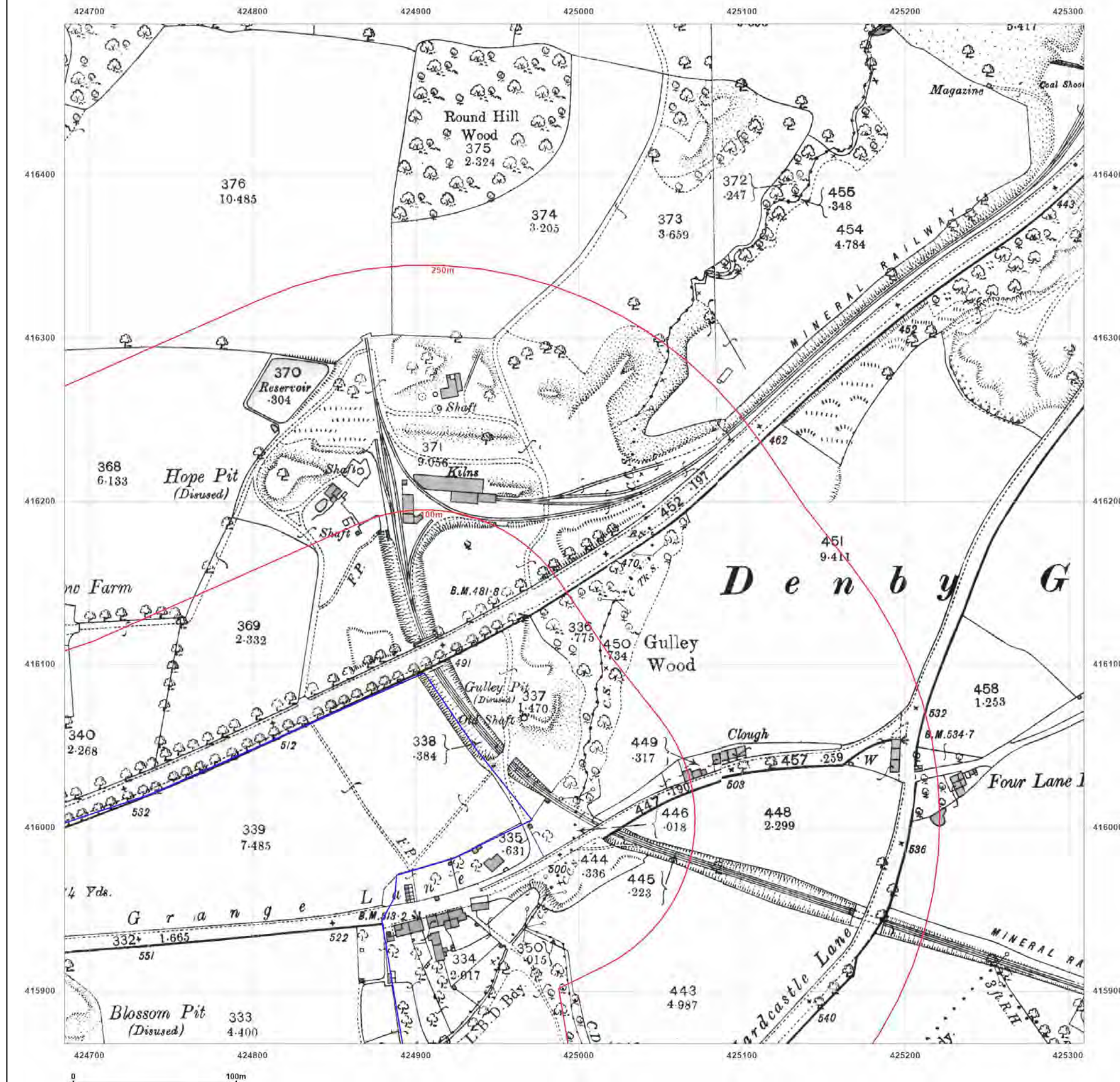


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874486_LS_2_2
Grid Ref: 424997, 416180

Map Name: County Series

Map date: 1907

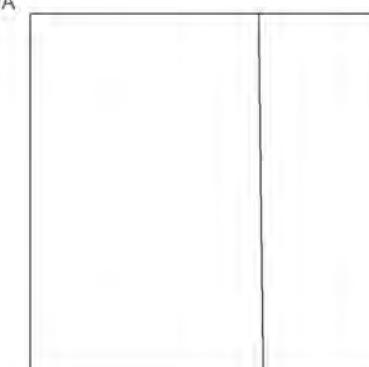
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

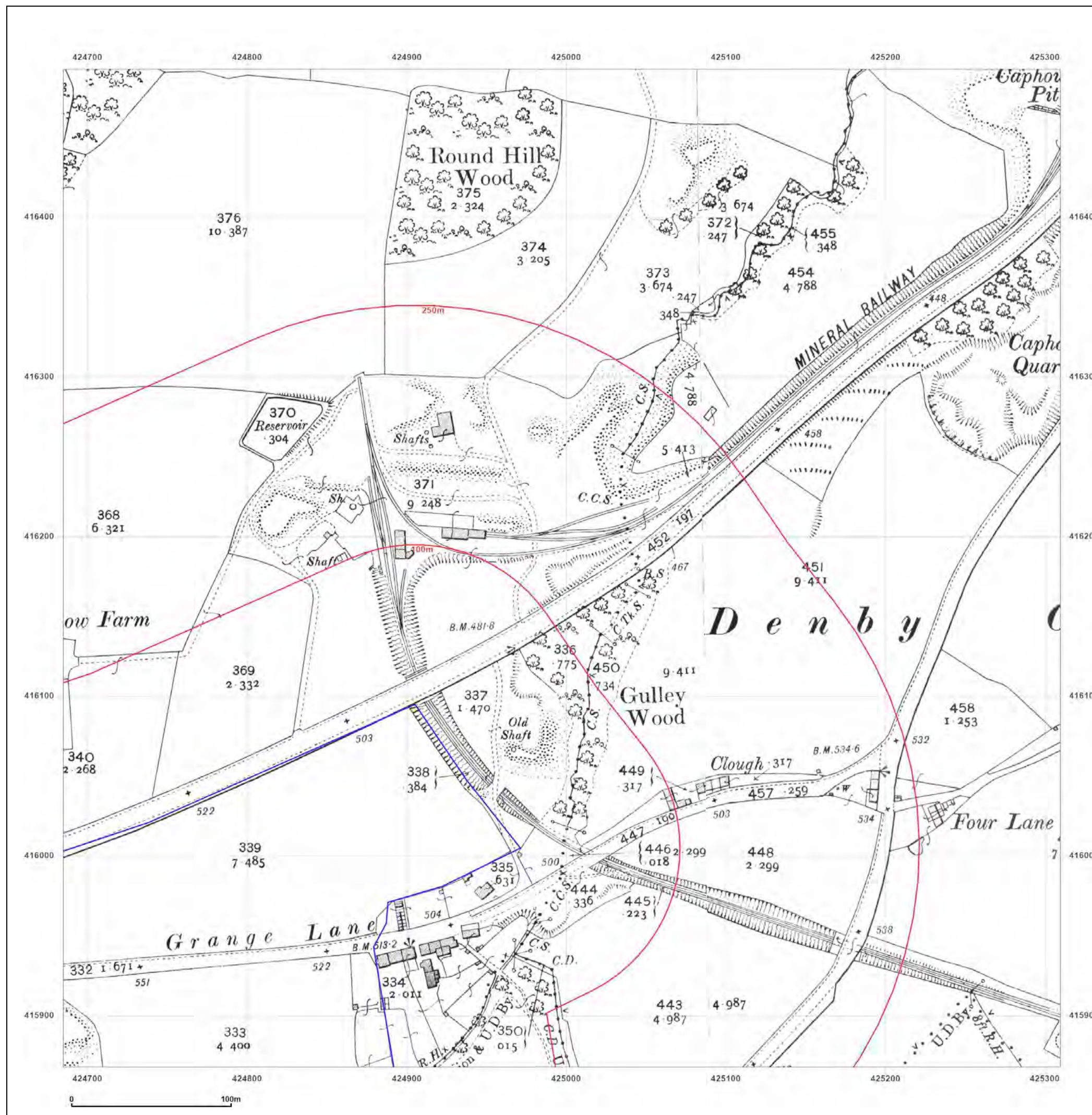


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874486_LS_2_2
Grid Ref: 424997, 416180

Map Name: County Series

Map date: 1919

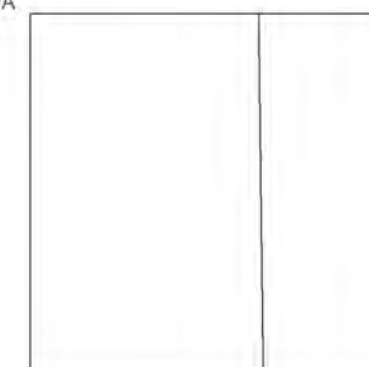
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1919
Revised 1919
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1919
Revised 1919
Edition N/A
Copyright N/A
Levelled N/A



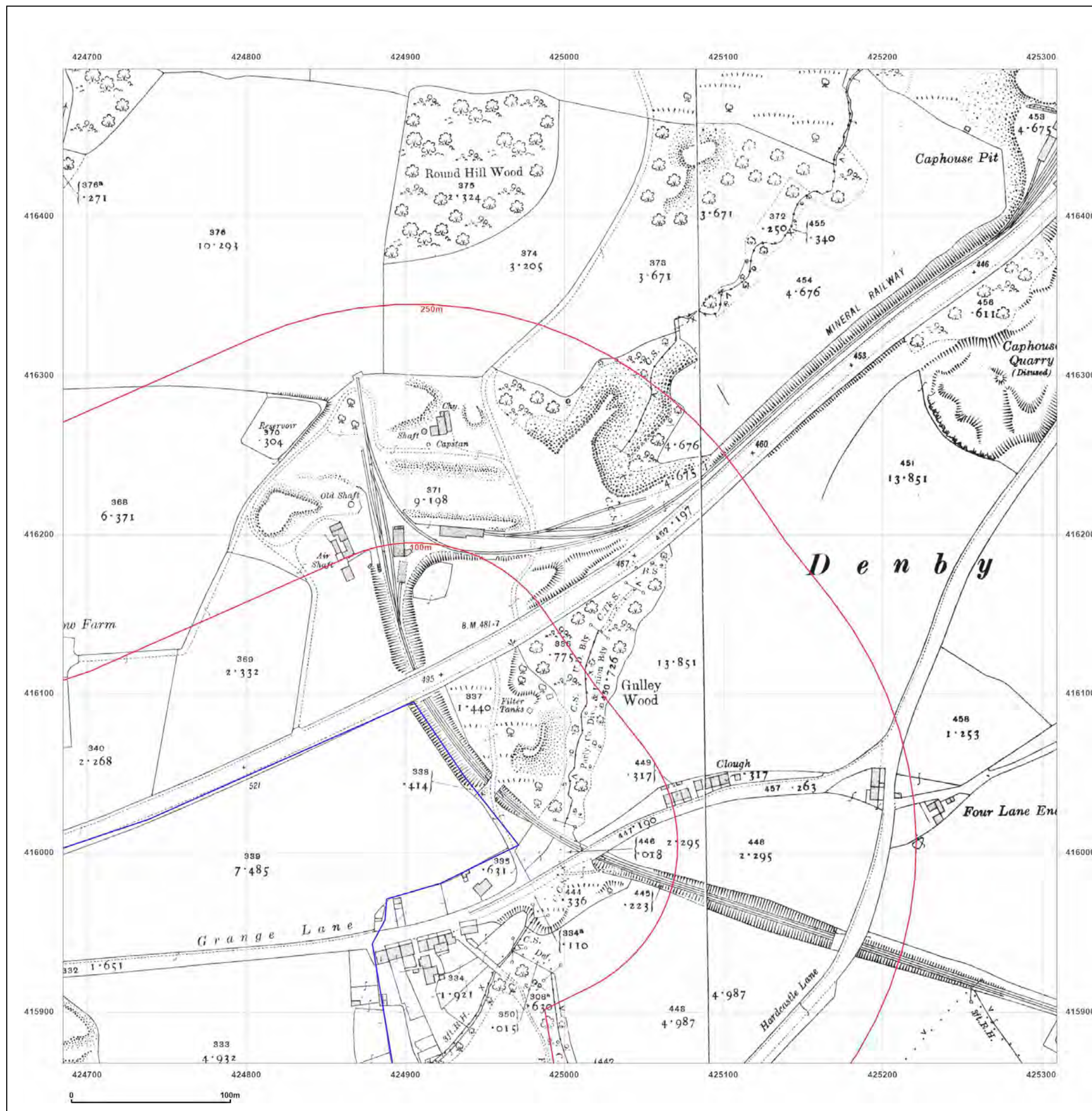
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com



© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874486_LS_2_2
Grid Ref: 424997, 416180

Map Name: County Series

Map date: 1932-1933

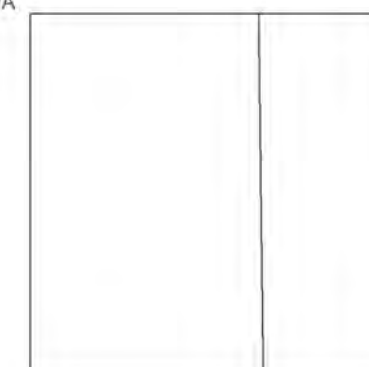
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1932
Revised 1932
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1933
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A

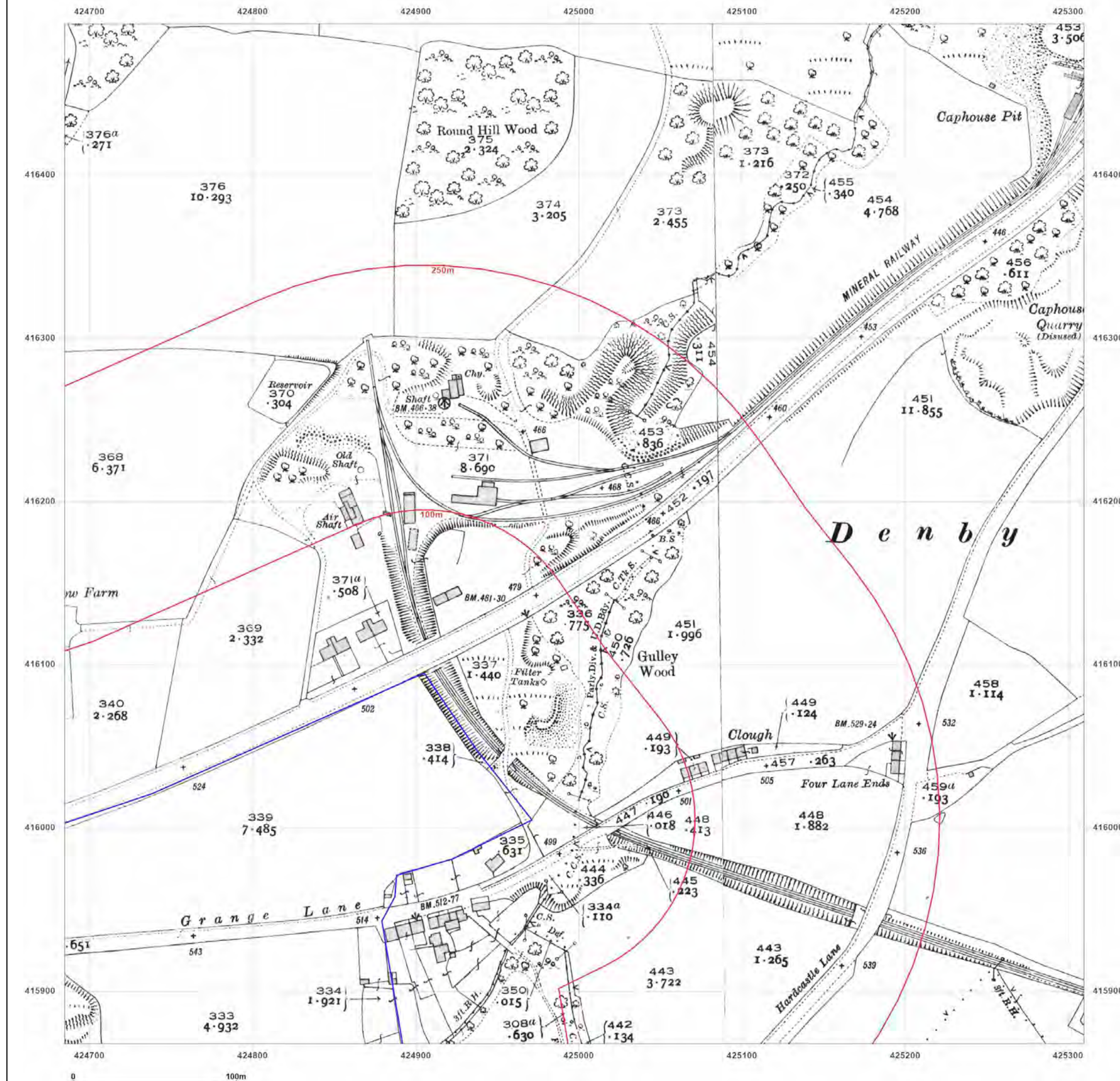


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874486_LS_2_2
Grid Ref: 424997, 416180

Map Name: National Grid

Map date: 1960

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
Levelled 1958

Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
Levelled 1958



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

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874486_LS_2_2
Grid Ref: 424997, 416180

Map Name: National Grid

Map date: 1990-1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1963
Revised 1991
Edition N/A
Copyright 1991
Levelled 1963

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1963
Revised 1991
Edition N/A
Copyright 1991
Levelled 1963

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1990
Levelled 1973

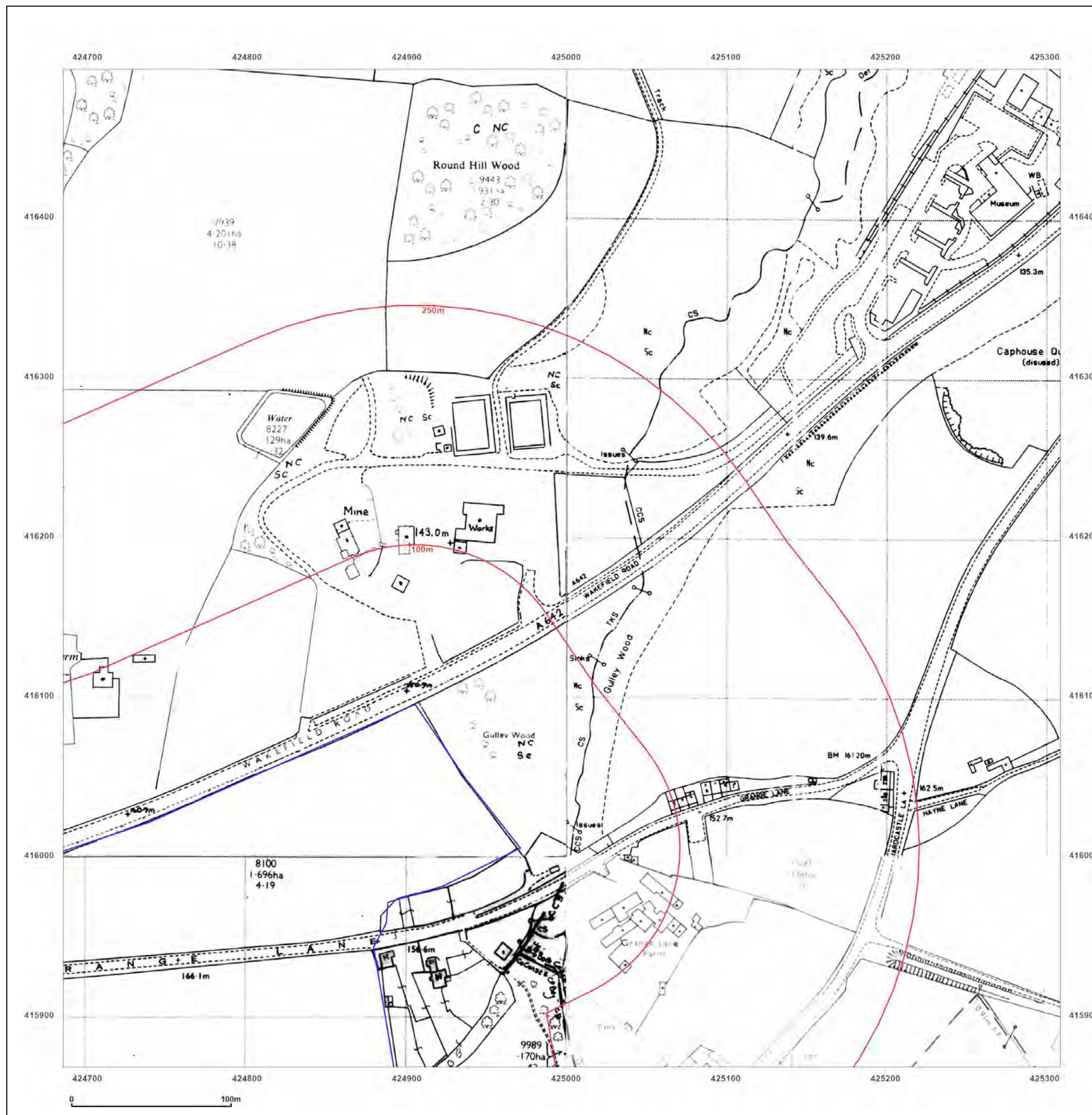


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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



Appendix D.5

PARCEL 9

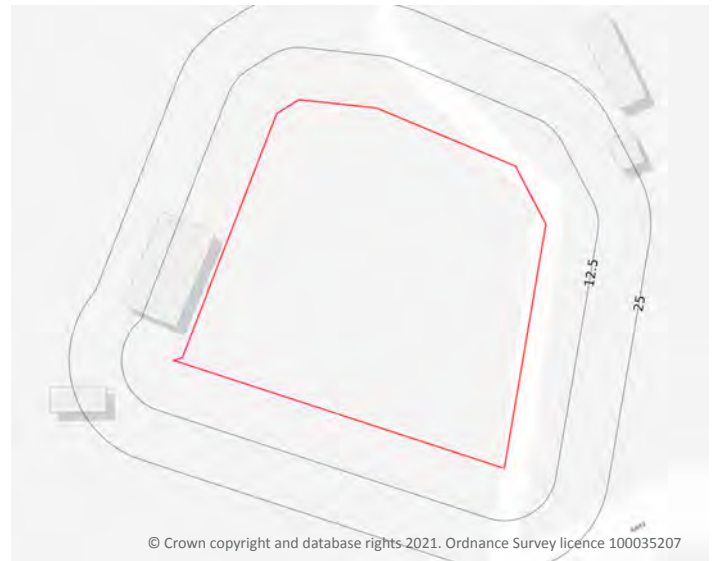


423569, 415888

Professional opinion



Site plan



Search results

Not in a radon affected area

Local levels of radon are considered normal.

The percentage of homes estimated to be affected by radon in your local area is less than 1%.

Useful contacts

Public Health England / UKRadon

Public information access office, Public Health
England, Wellington House, 133-155 Waterloo
Road, London, SE1 8UG

<https://www.ukradon.org/>

UK Radon Association

<http://www.radonassociation.co.uk/>

Overview of findings and recommendations

Radon

No further action is recommended based on the identified local levels of radon.

It should be noted that although this report uses the best available data this assessment is an estimation and is not based upon measurements. It is possible to find high radon levels in properties anywhere in the country, even in lower risk areas, as radon is everywhere in varying concentrations.

Conveyancing Information Executive and our terms & conditions

IMPORTANT CONSUMER PROTECTION INFORMATION

This search has been produced by Groundsure Ltd, Sovereign House, Church Street, Brighton, BN1 1UJ. Tel: 08444 159 000. Email: info@groundsure.com. Groundsure adheres to the Conveyancing Information Executive Standards.

The Standards

- Conveyancing Information Executive Members shall act in a professional and honest manner at all times in line with the Conveyancing Information Executive Standards and carry out the delivery of the Search with integrity and due care and skill.
- Compliance with the Conveyancing Information Executive Standards will be a condition within the Conveyancing Information Executive Member's Terms and Conditions.
- Conveyancing Information Executive Members will promote the benefits of and deliver the Search to the agreed standards and in the best interests of the customer and associated parties.

Complaints Advice

If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure.

If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award up to £5,000 to you if the Ombudsman finds that you have suffered actual financial loss and/or aggravation, distress or inconvenience as a result of your search provider failing to keep to the Standards.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPOs.

COMPLAINTS PROCEDURE: If you want to make a complaint, we will:

- acknowledge it within 5 working days of receipt
- normally deal with it fully and provide a final response, in writing, within 20 working days of receipt
- liaise, at your request, with anyone acting formally on your behalf

Complaints should be sent to:

Operations Director, Groundsure Ltd, Sovereign House, Church Street, Brighton, BN1 1UJ. Tel: 08444 159 000. Email:

info@groundsure.com If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs): Tel: 01722 333306, E-mail: admin@tpos.co.uk We will co-operate fully with the Ombudsman during an investigation and comply with their final decision.

Groundsure's Terms and Conditions can be viewed online at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>

Important consumer protection information

All of the advice and reports that Groundsure produces are covered by a comprehensive Remediation Contribution policy to ensure customers are protected, see <https://www.groundsure.com/remediation> for full details.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information in your Radon Check report. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: County Series

Map date: 1893

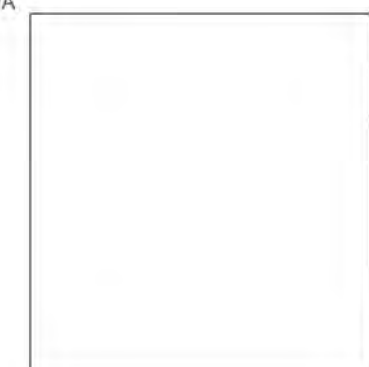
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1893
Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

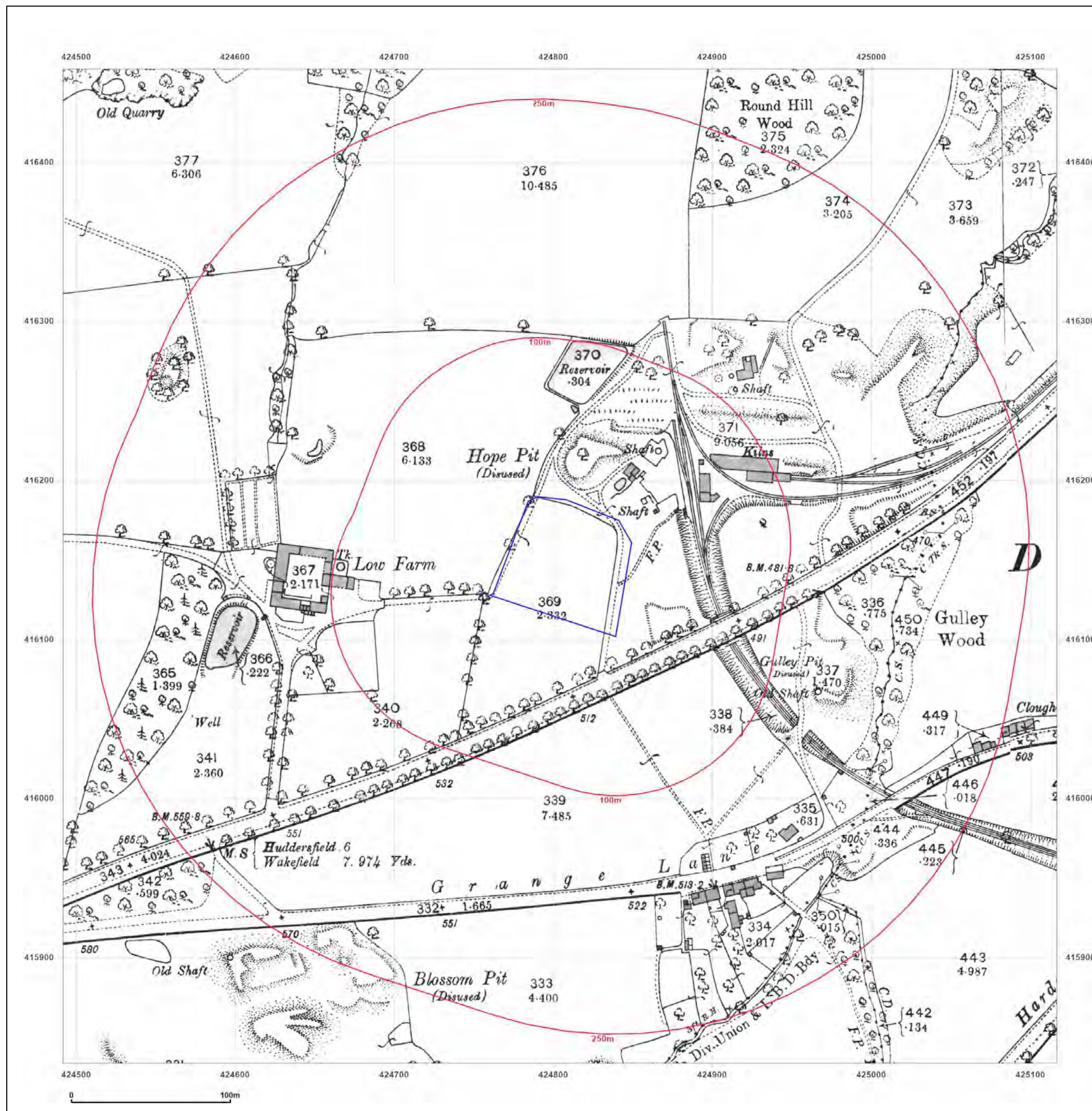


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: County Series

Map date: 1907

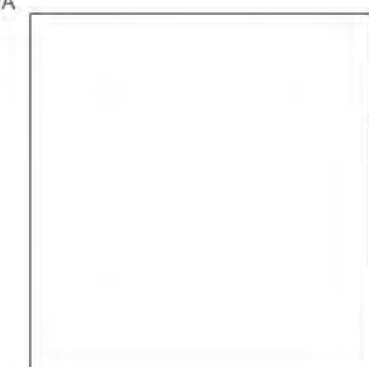
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1907
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

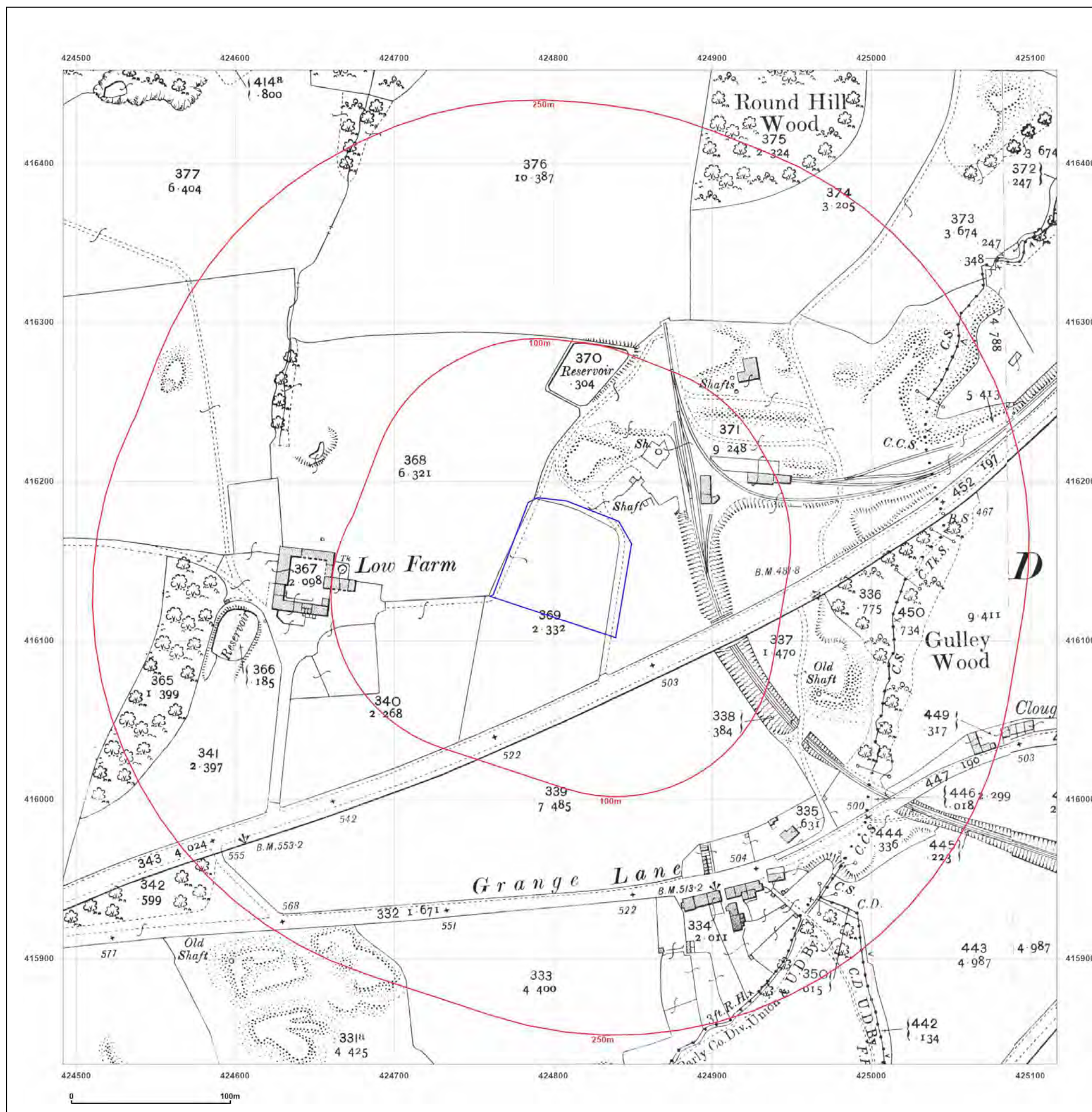


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: County Series

Map date: 1919

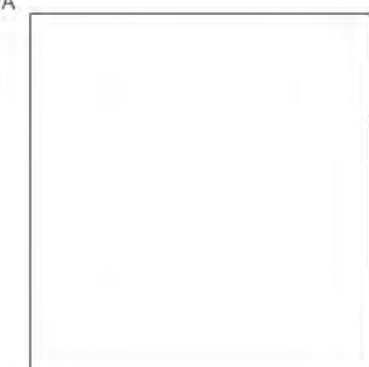
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1919
Revised 1919
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1919
Revised 1919
Edition N/A
Copyright N/A
Levelled N/A

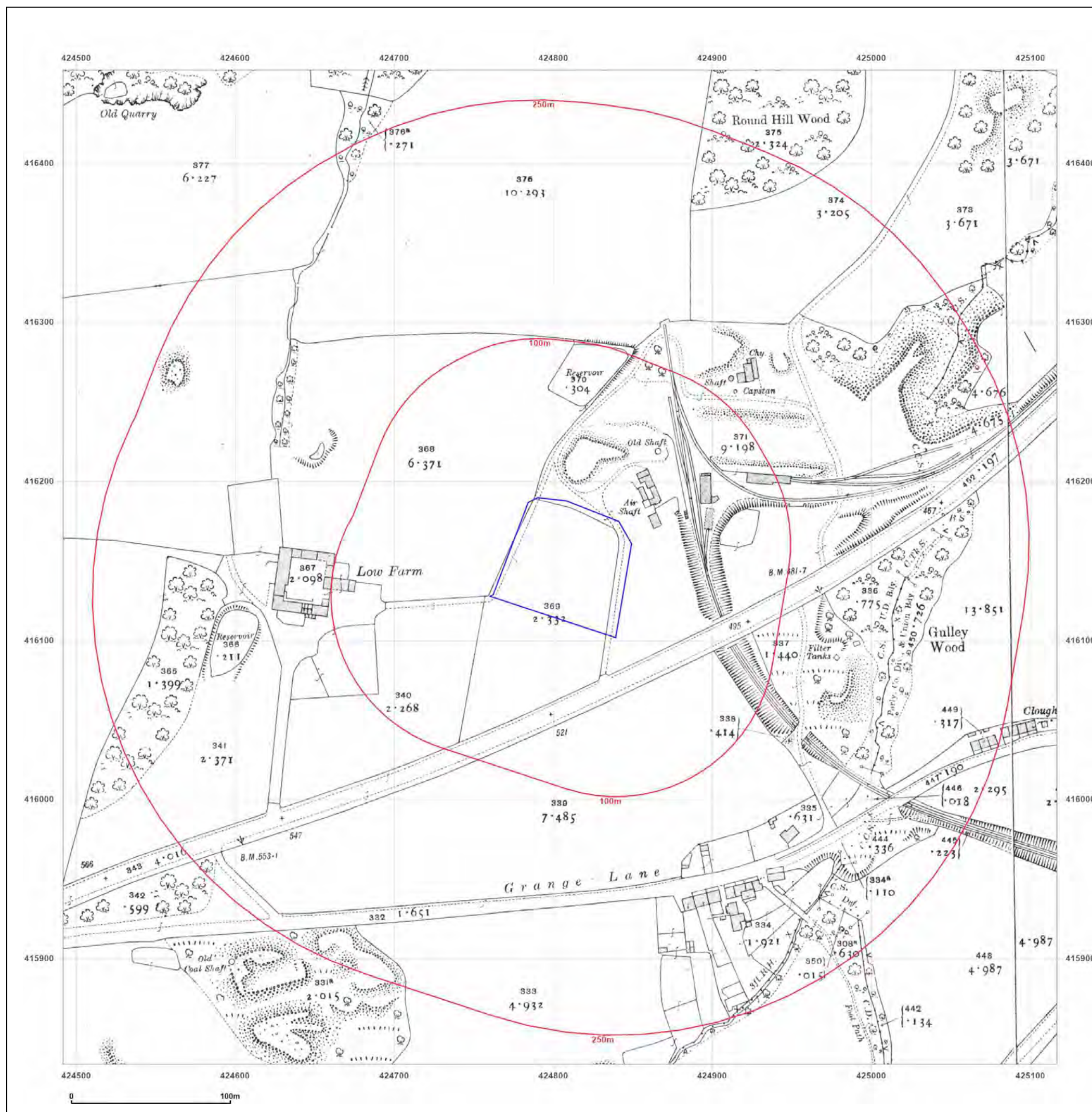


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: County Series

Map date: 1932-1933

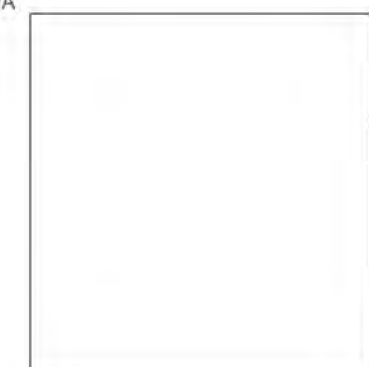
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1932
Revised 1932
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1933
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A

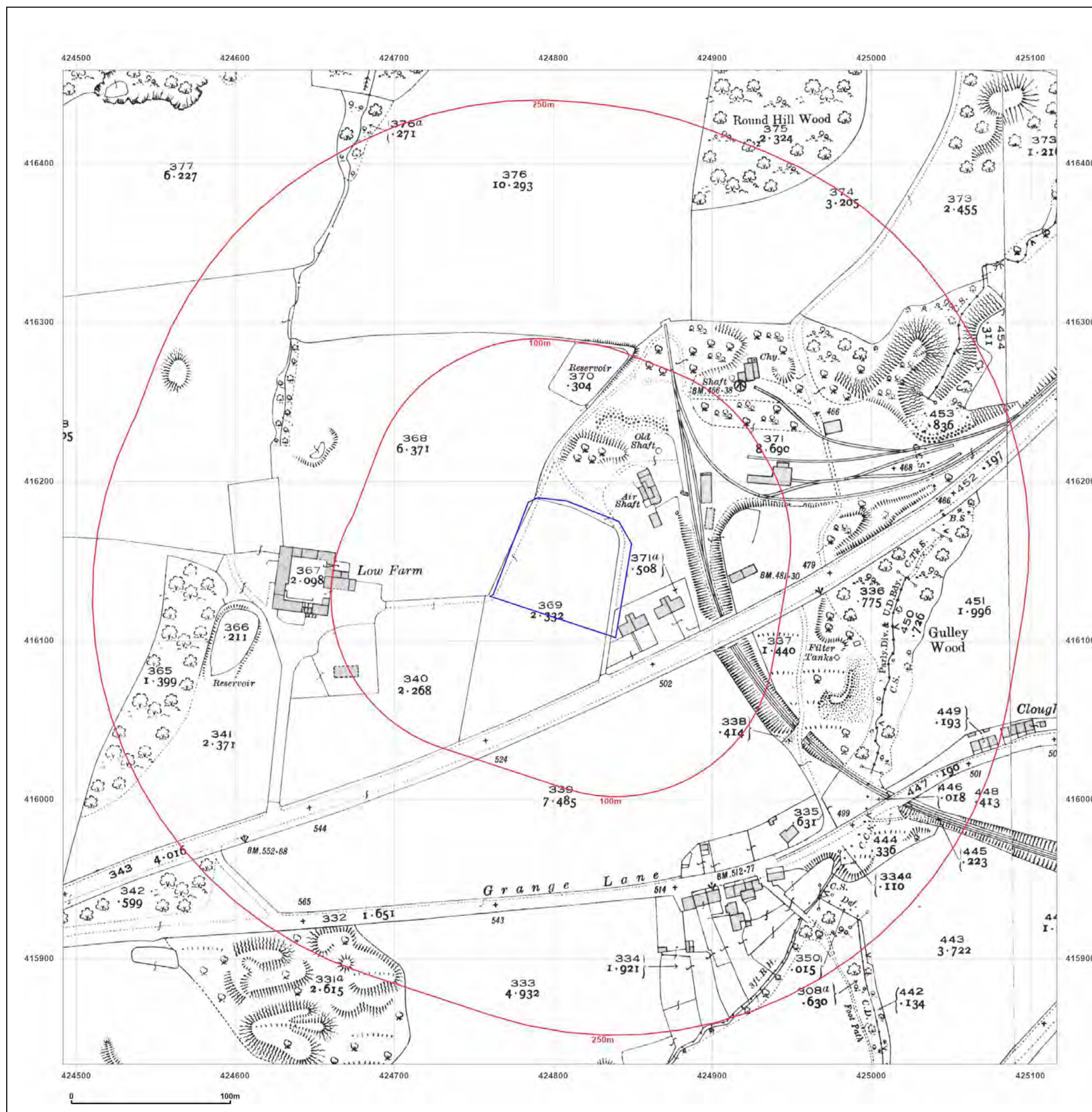


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: National Grid

Map date: 1960

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
Levelled 1958

Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
Levelled 1958

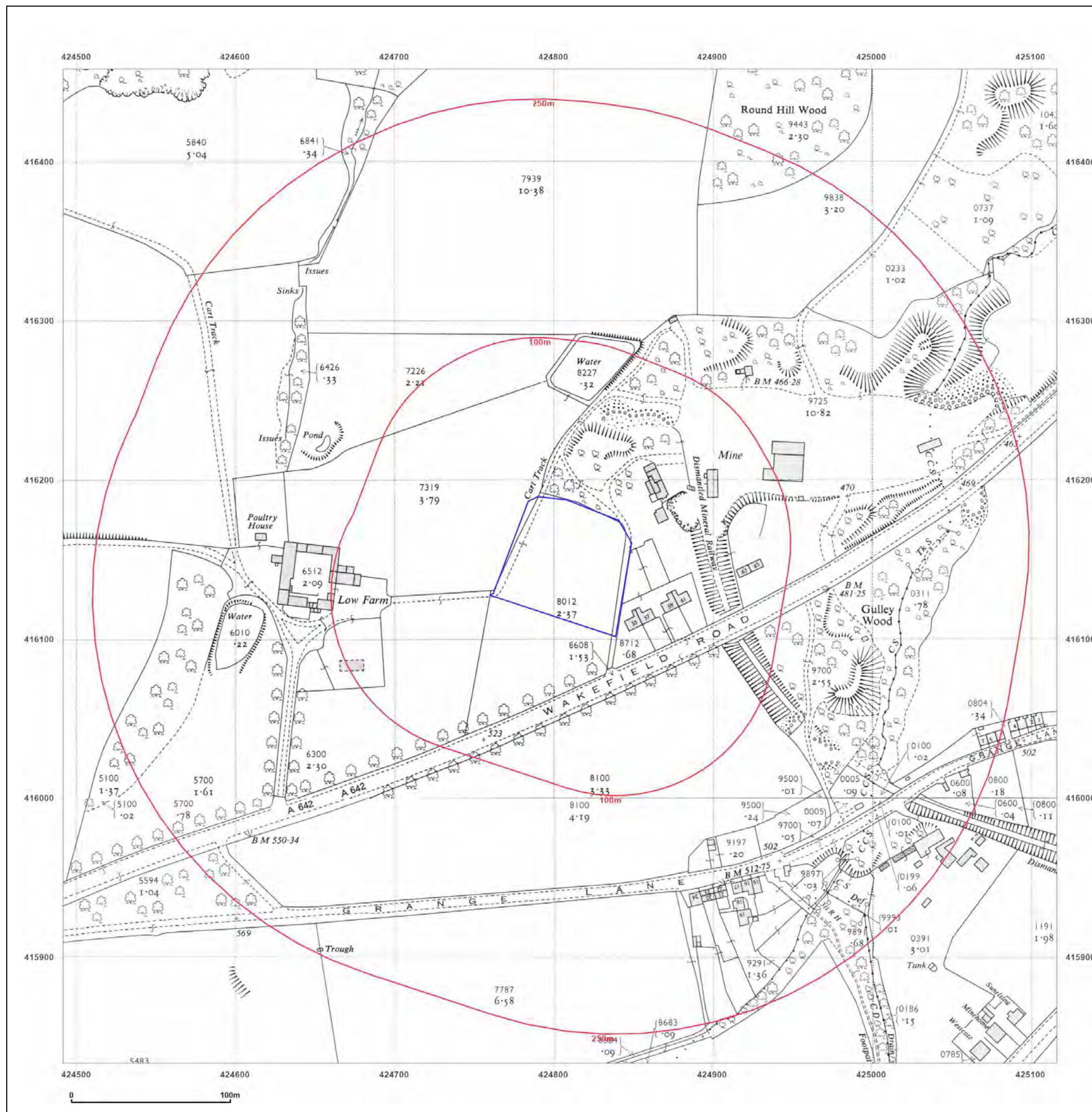


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: National Grid

Map date: 1990-1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1963
Revised 1991
Edition N/A
Copyright 1991
Levelled 1963

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1963
Revised 1991
Edition N/A
Copyright 1991
Levelled 1963

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1990
Levelled 1973

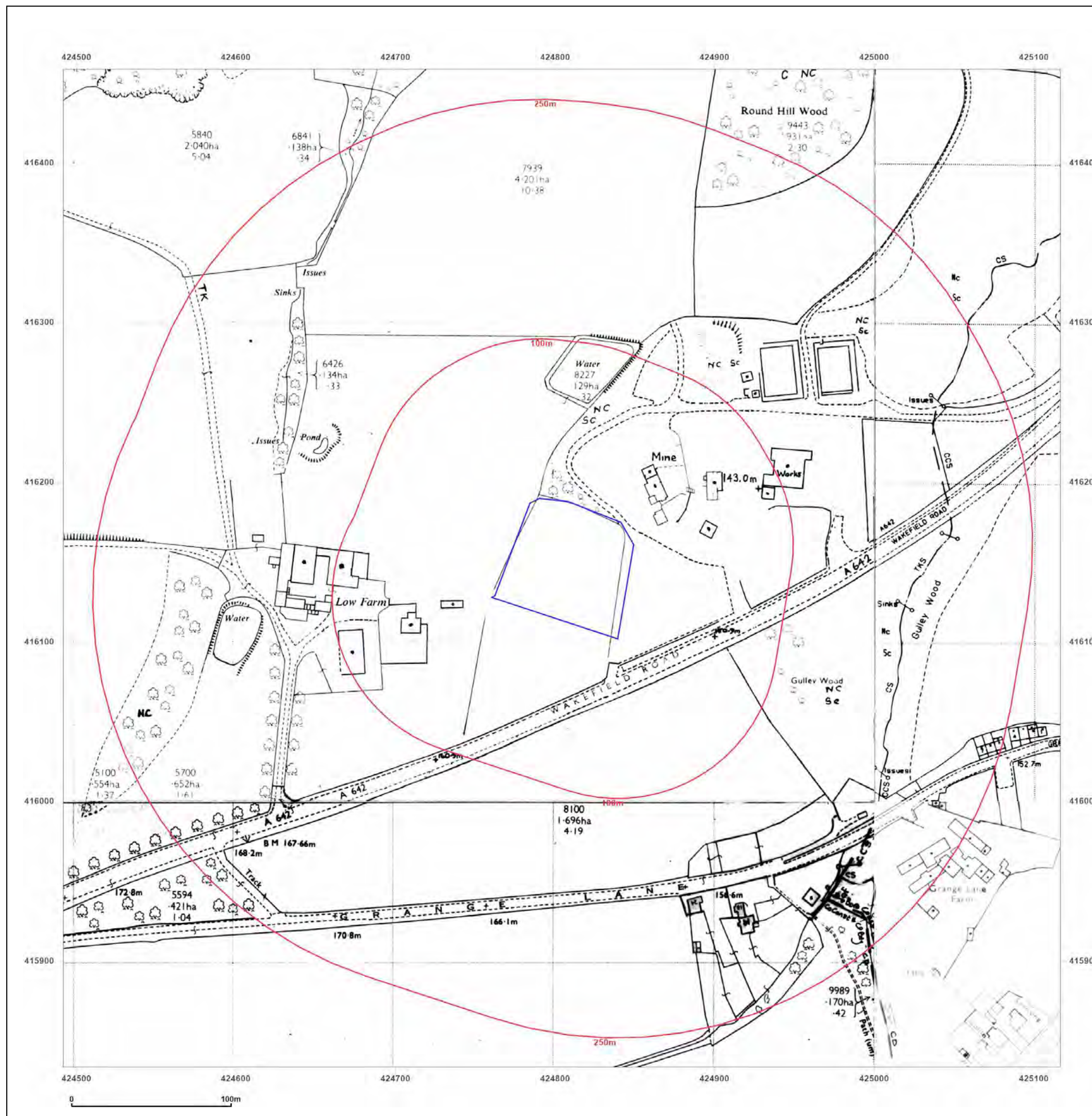


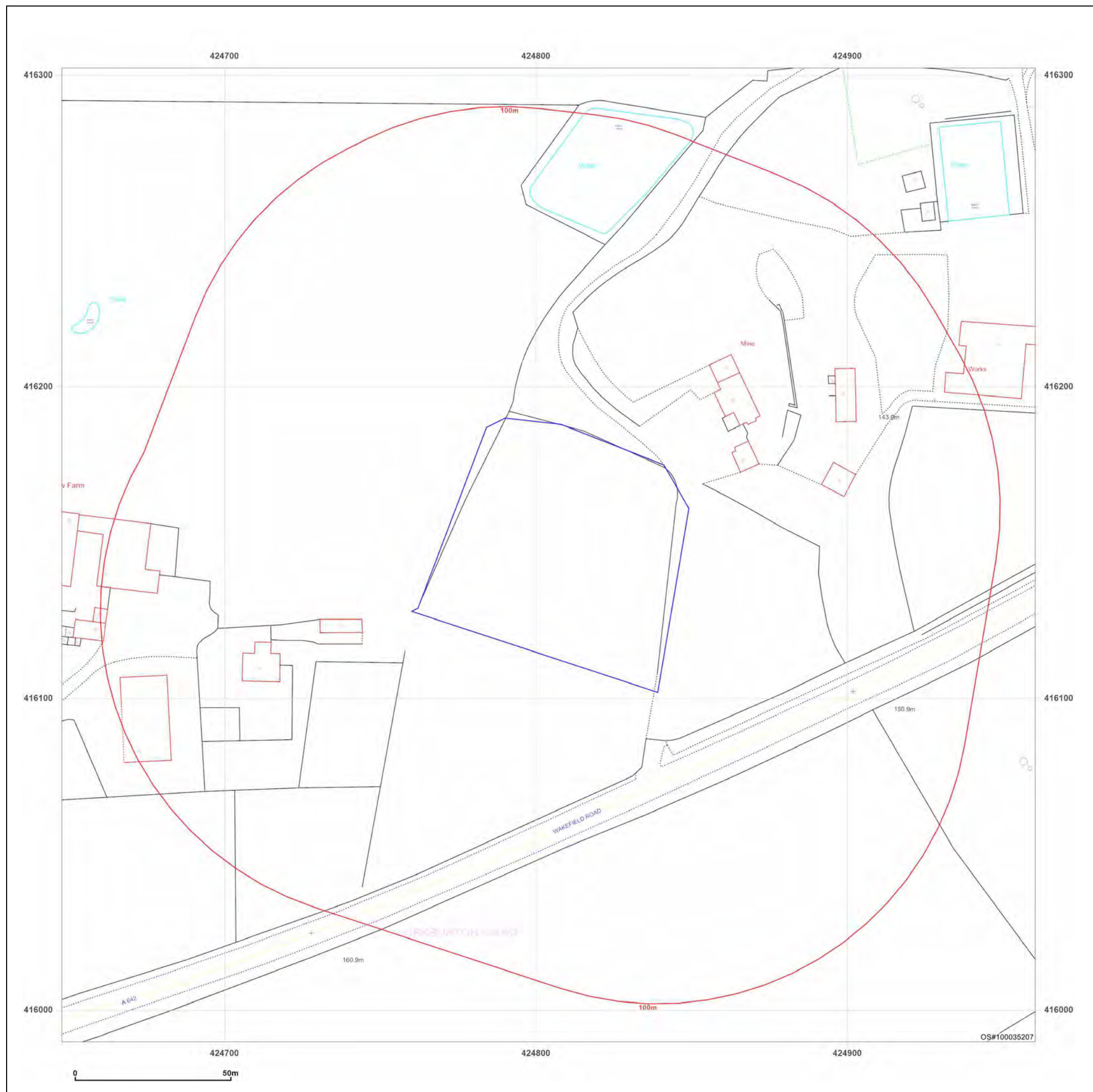
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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



Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710

Report Ref: WSP-7874415

Grid Ref: 424804, 416146

Map Name: County Series

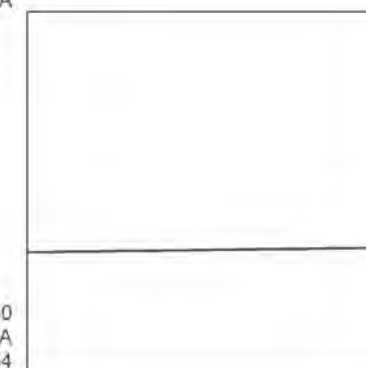
Map date: 1854-1855

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1851
Revised N/A
Edition 1855
Copyright N/A
Levelled N/A



Surveyed 1850
Revised N/A
Edition 1854
Copyright N/A
Levelled N/A

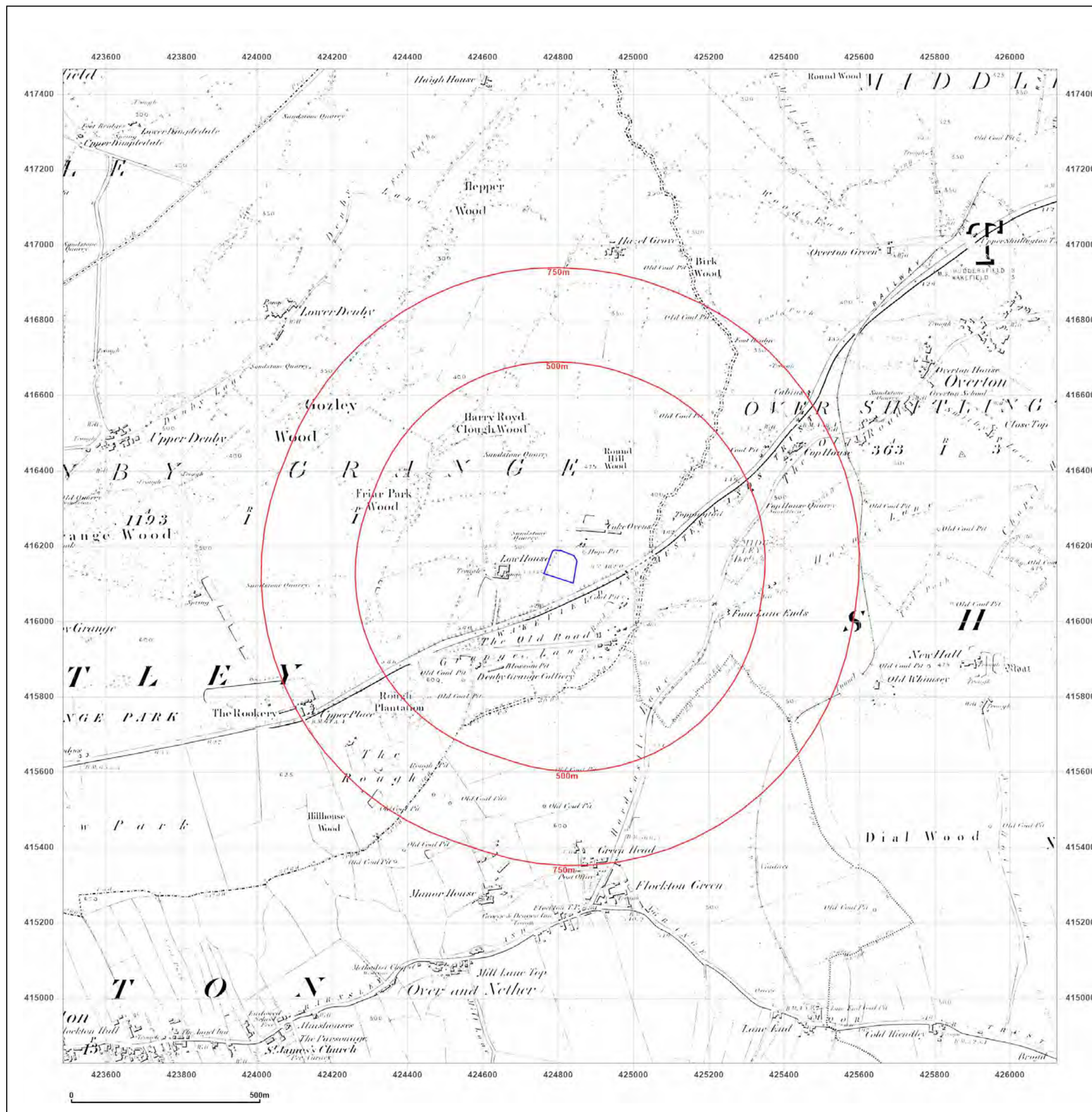


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: County Series

Map date: 1891-1892

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1891
Revised 1891
Edition N/A
Copyright N/A
Levelled N/A



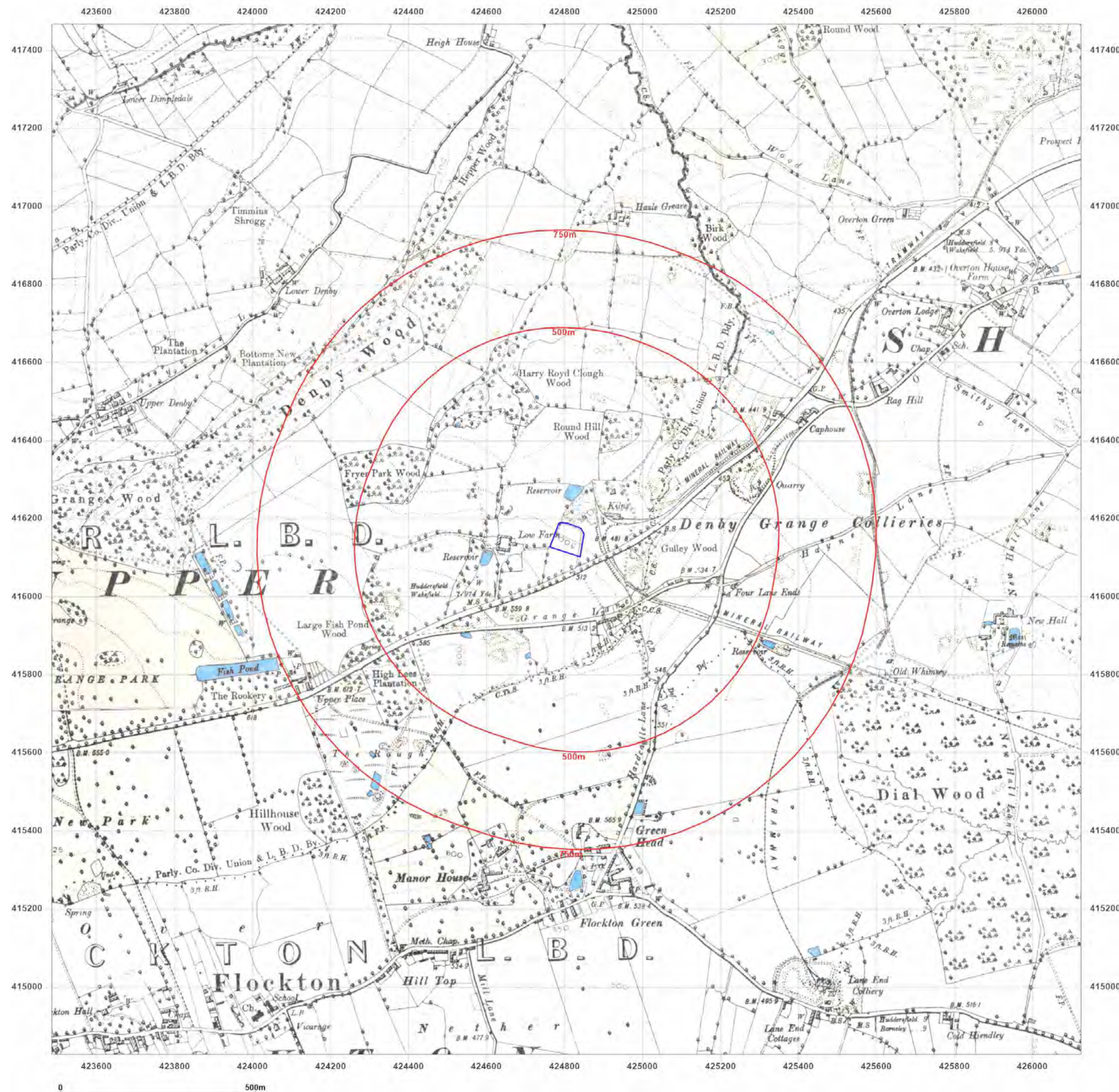
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

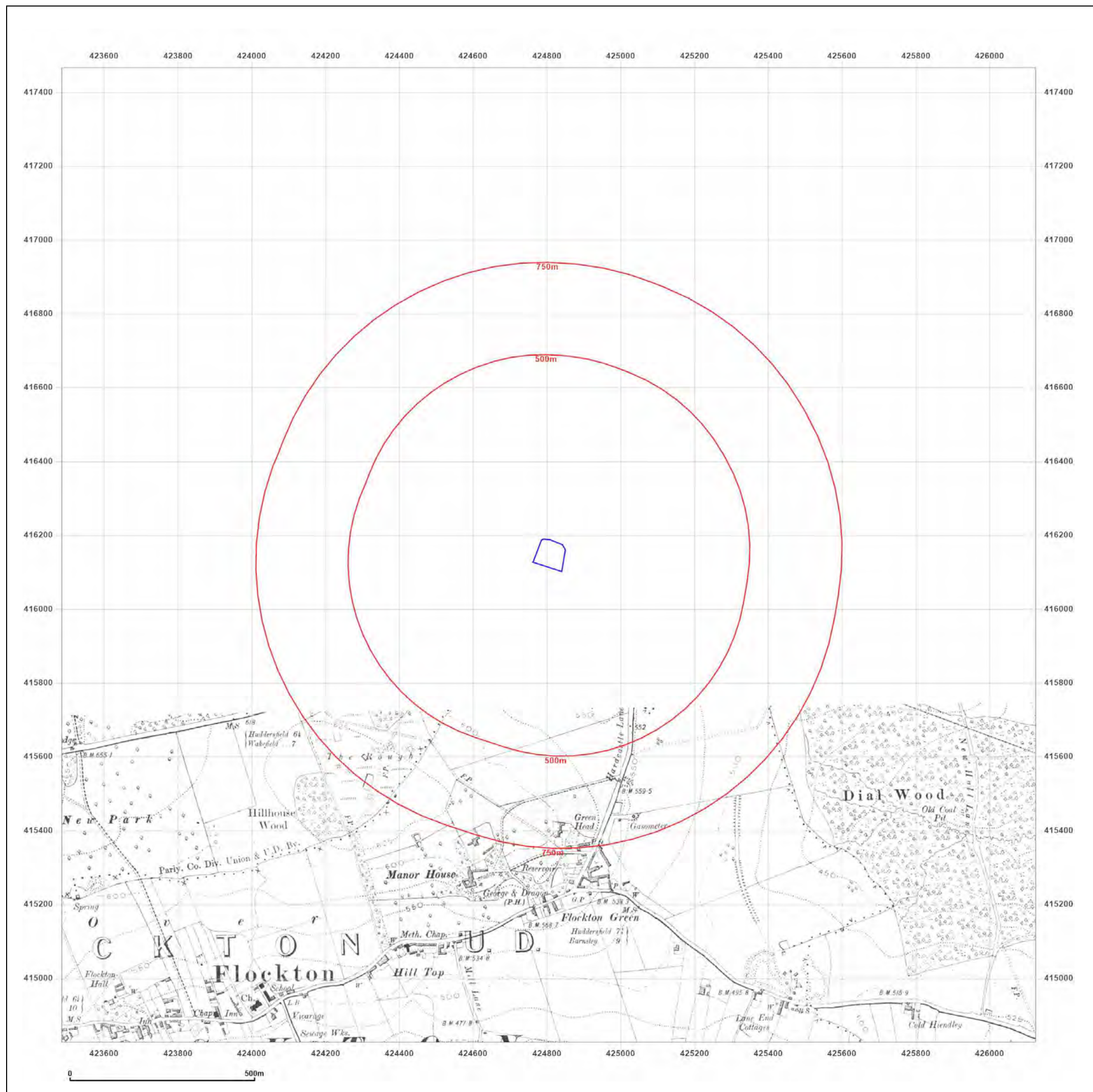


© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

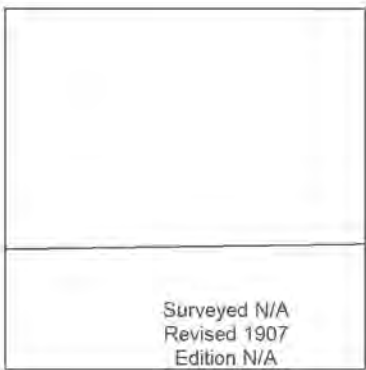
Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: County Series

Map date: 1907

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A



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

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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



Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: County Series

Map date: 1930-1931

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1851
Revised 1931
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1851
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

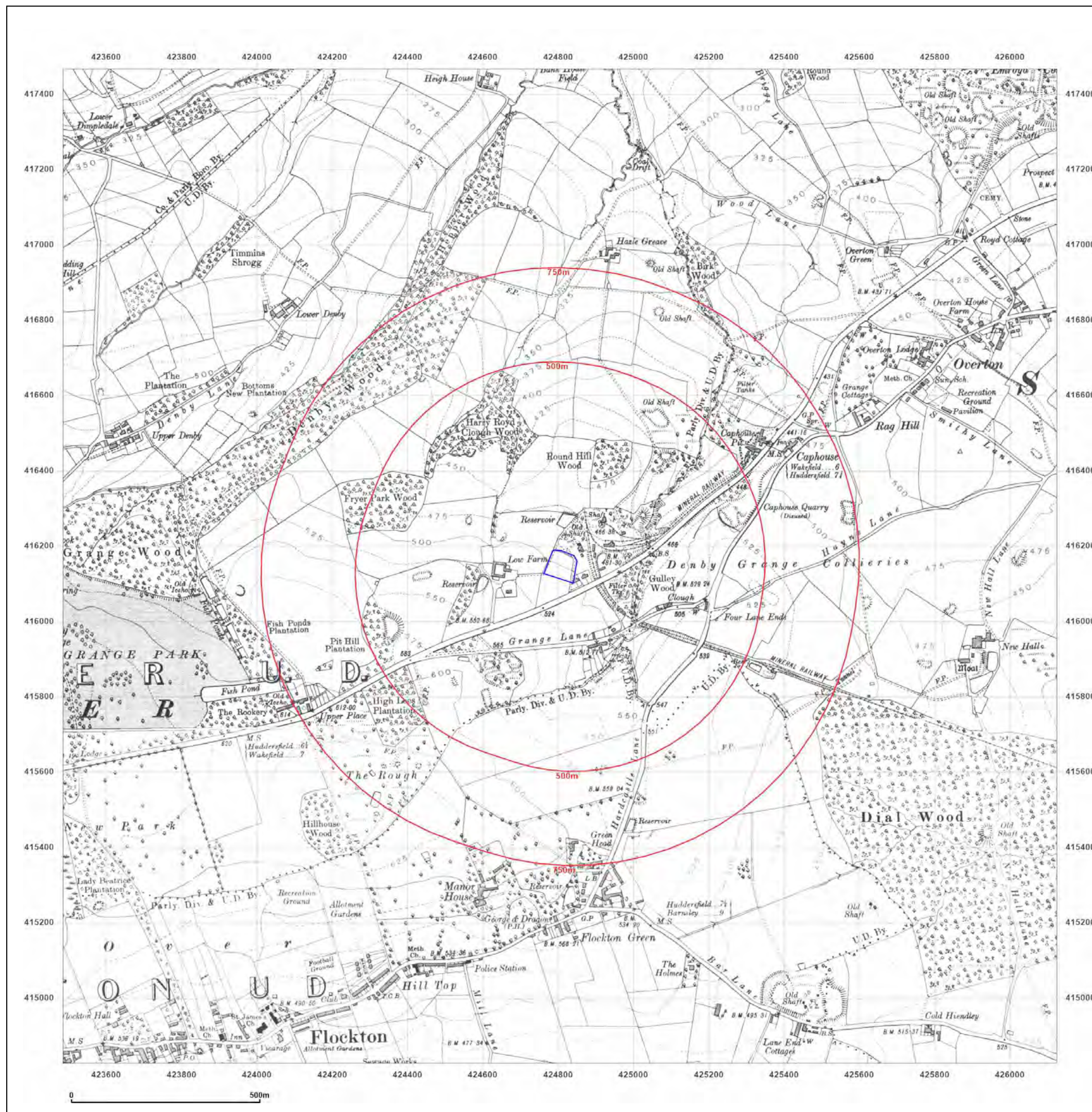


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710

Report Ref: WSP-7874415

Grid Ref: 424804, 416146

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1851
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

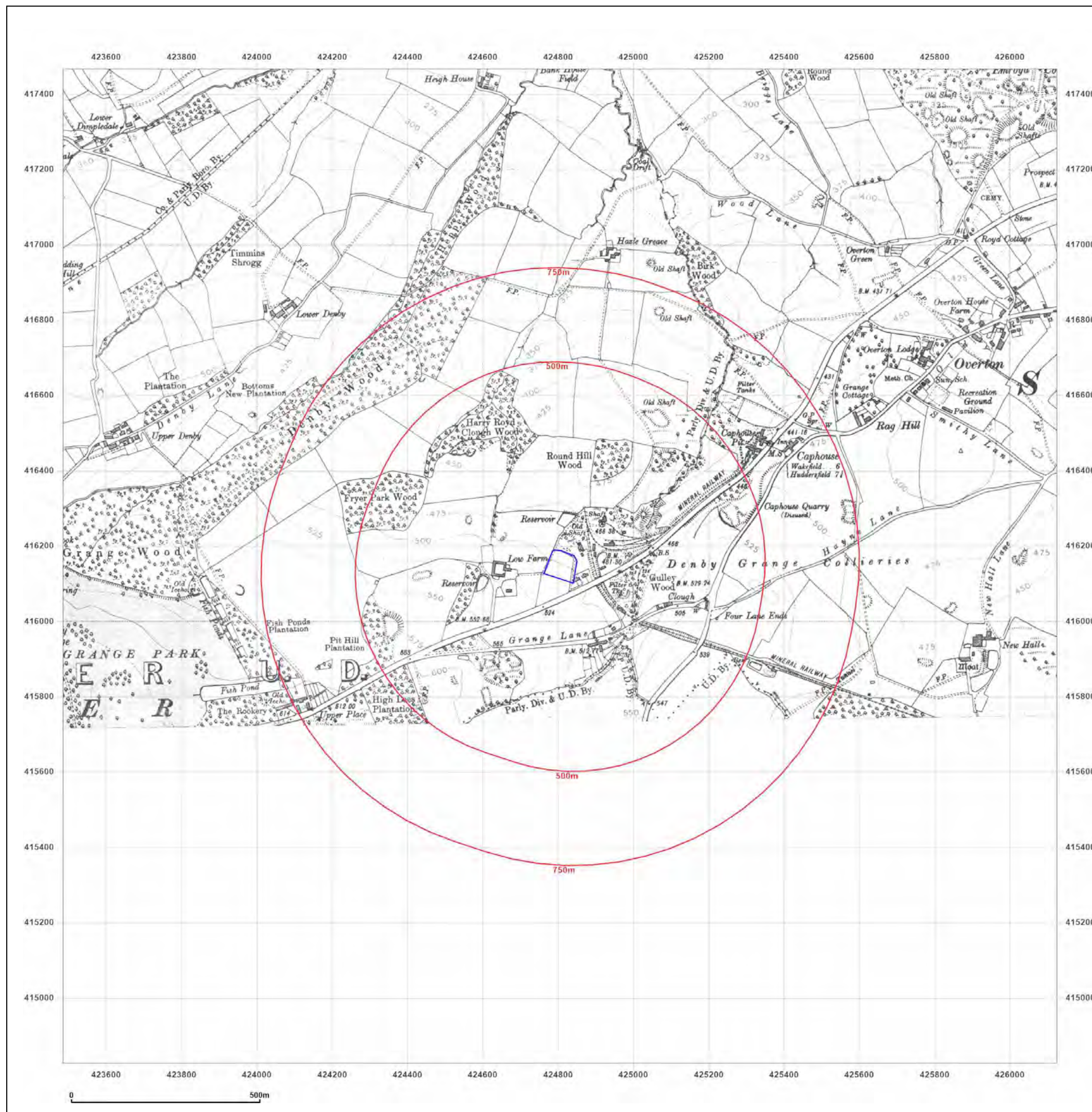


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: County Series

Map date: 1948

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1851
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1851
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A



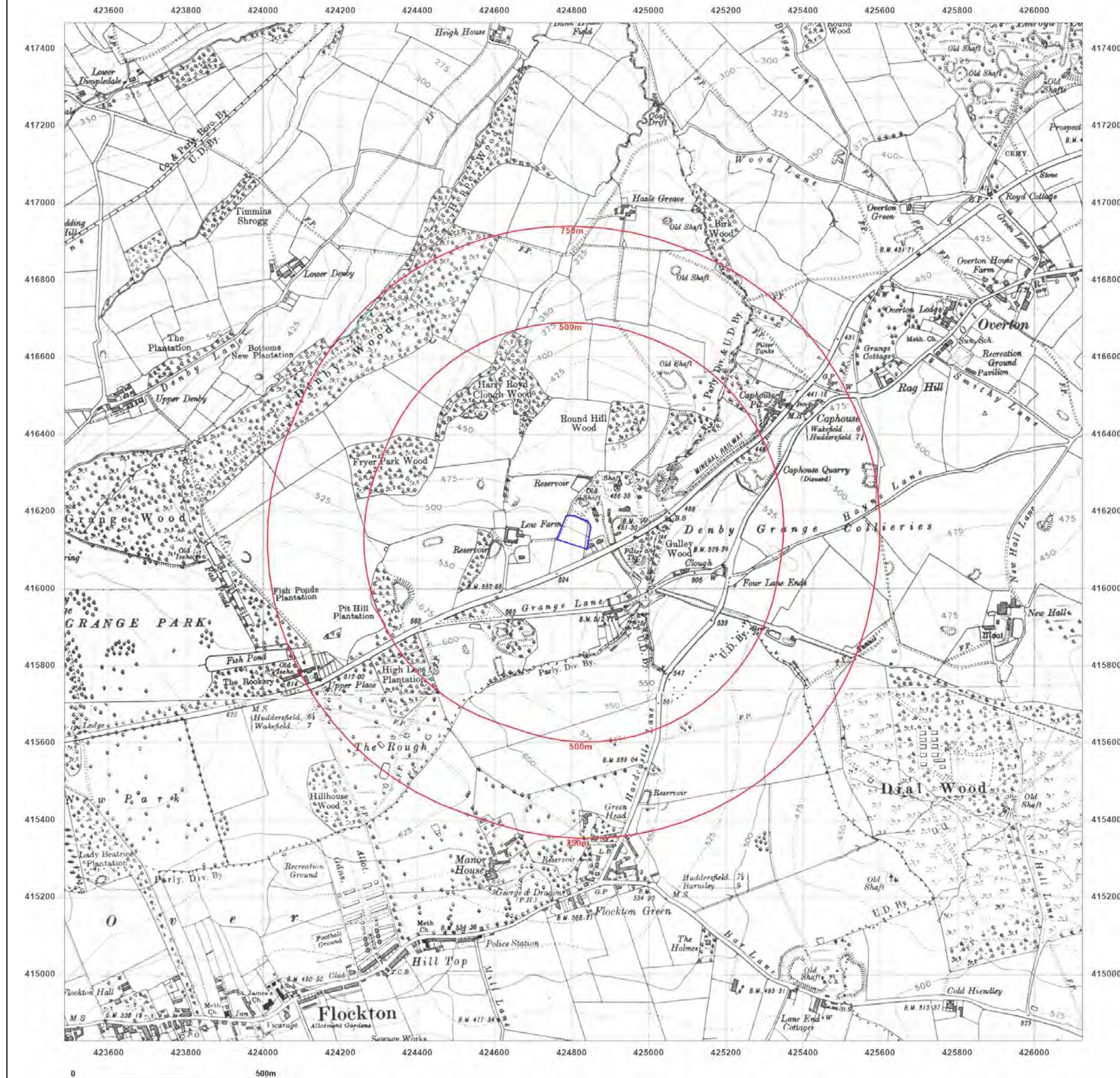
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com



© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: Provisional

Map date: 1951-1955

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1951
Revised 1951
Edition N/A
Copyright N/A
Levelled N/A

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

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

Surveyed 1951
Revised 1951
Edition N/A
Copyright N/A
Levelled N/A

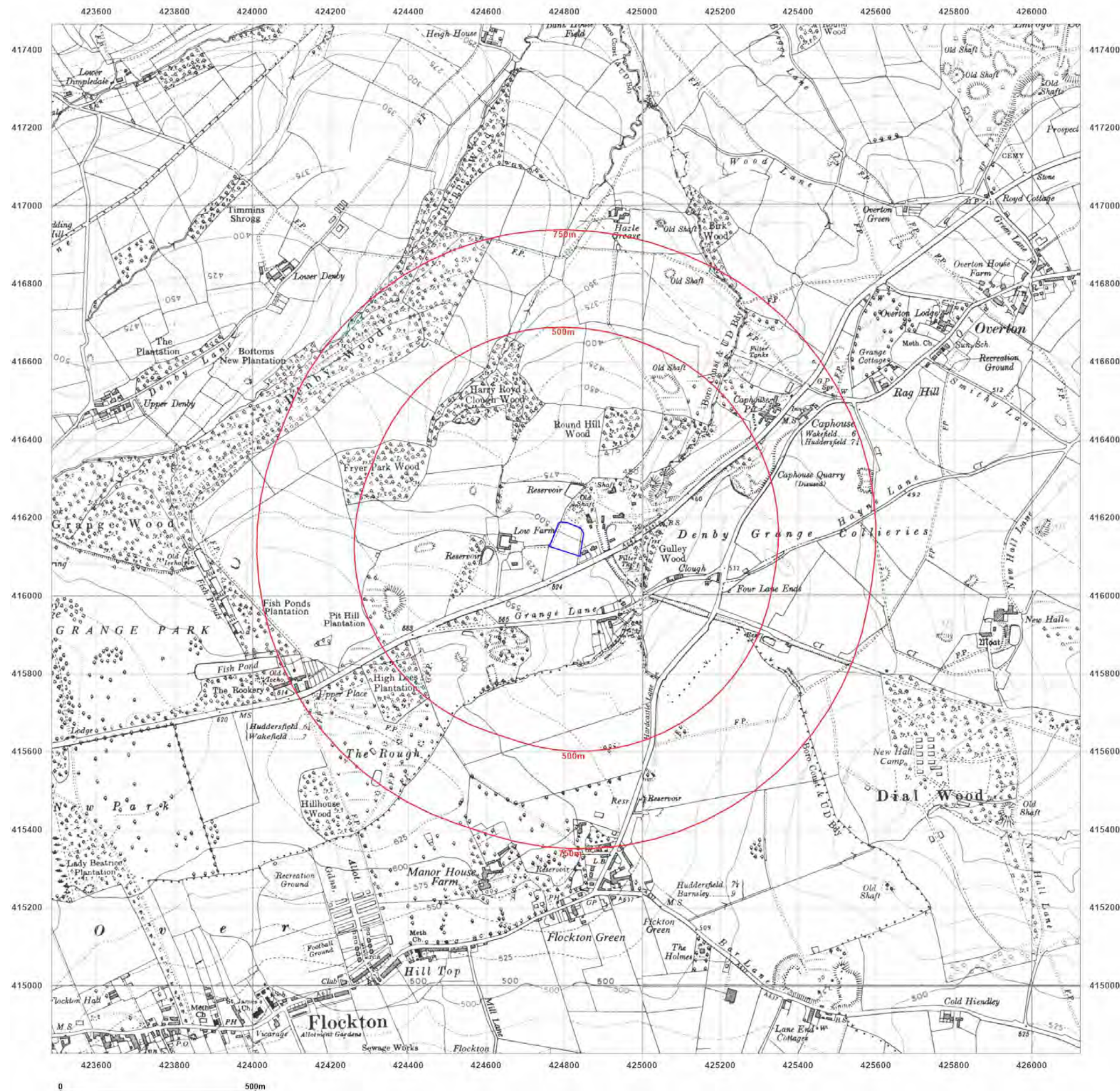


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: Provisional

Map date: 1966-1967

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1966
Revised 1966
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1966
Revised 1966
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1967
Revised 1967
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1966
Revised 1966
Edition N/A
Copyright N/A
Levelled N/A

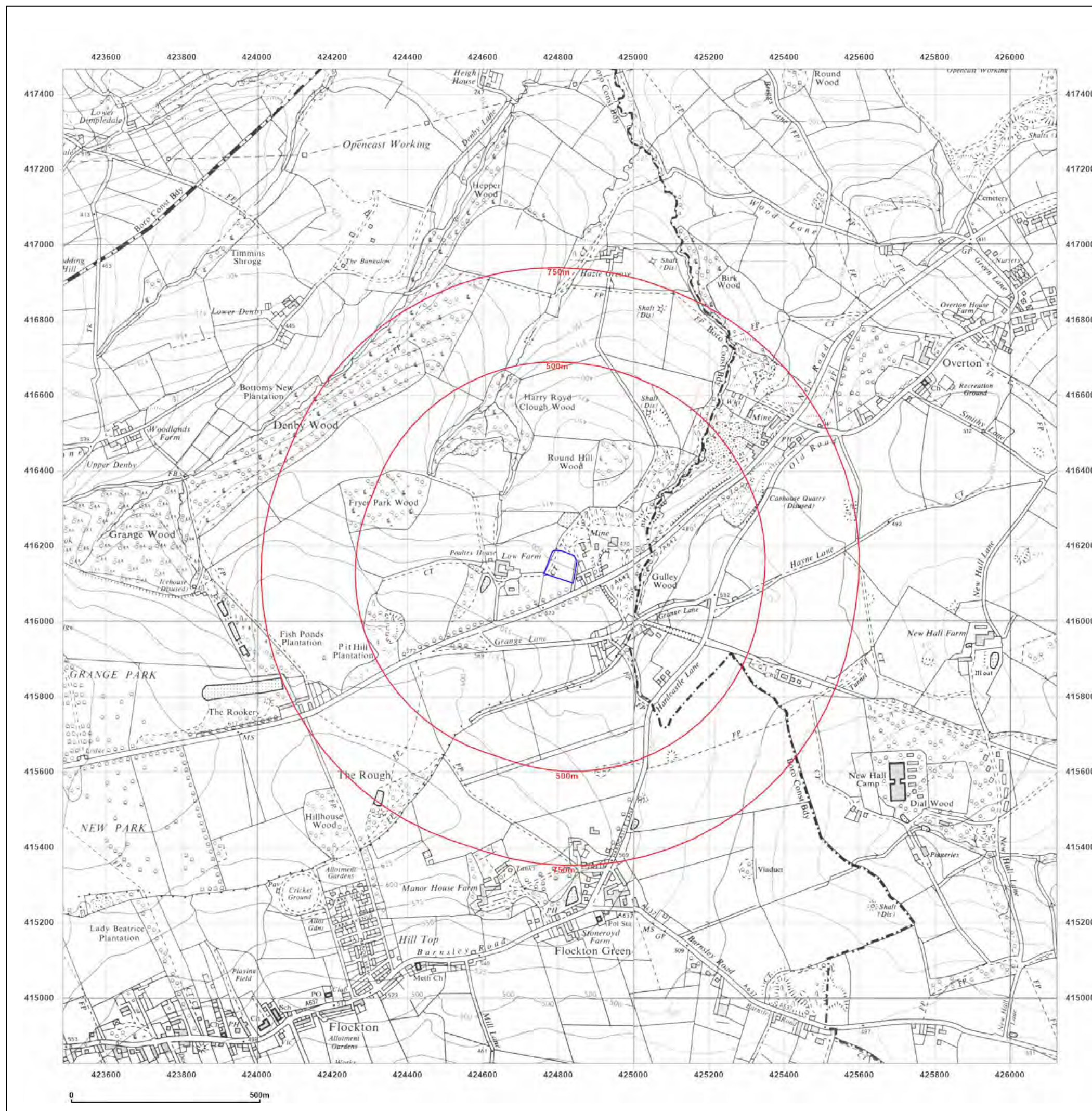


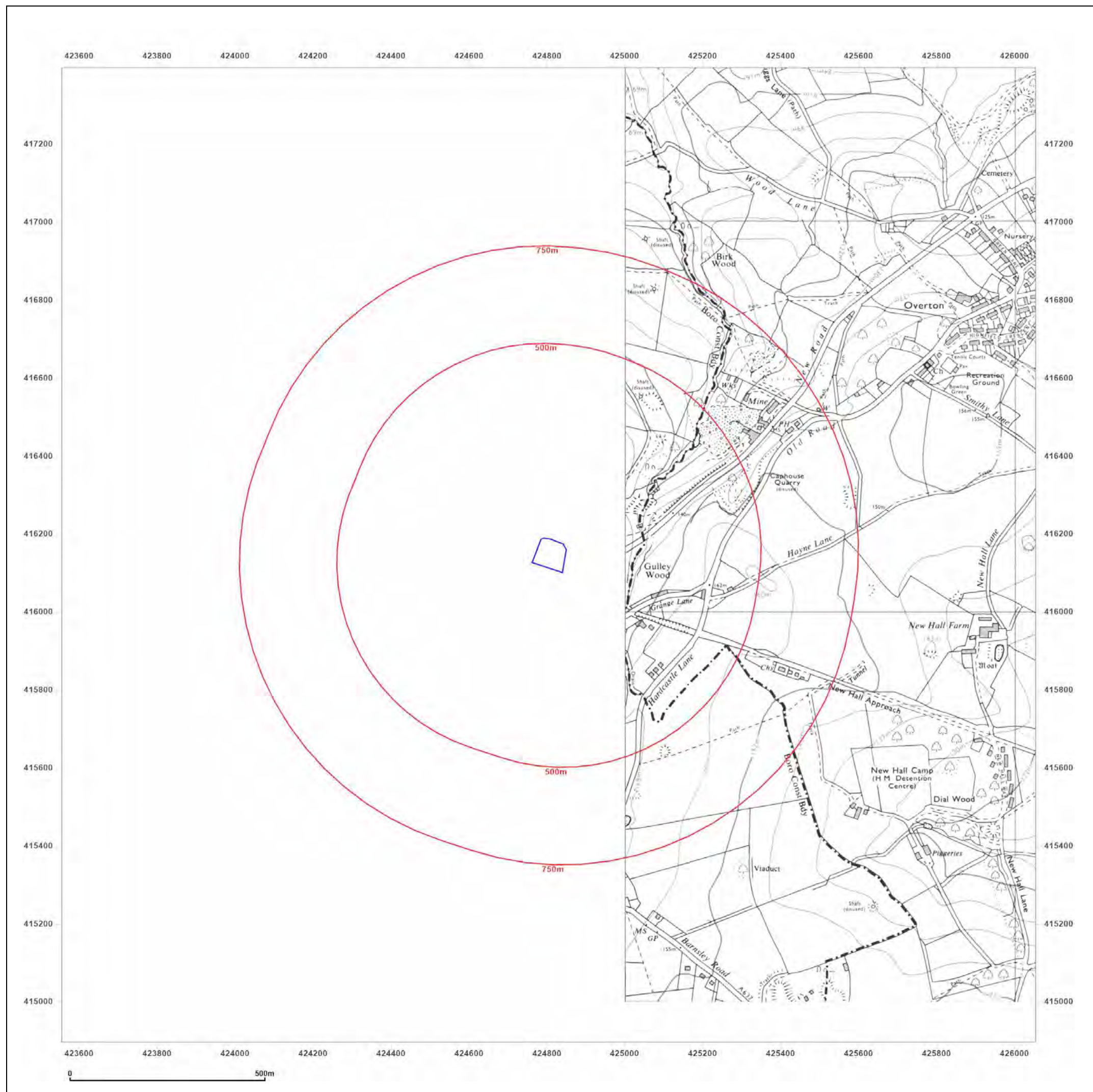
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: National Grid

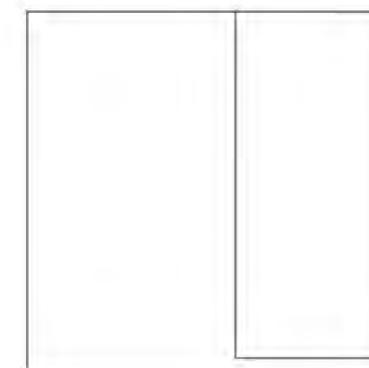
Map date: 1973

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1973
Revised 1973
Edition N/A
Copyright N/A
Levelled N/A



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

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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



Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: National Grid

Map date: 1979-1983

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1977
Revised 1982
Edition N/A
Copyright N/A
Levelled N/A

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

Surveyed 1977
Revised 1979
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1980
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

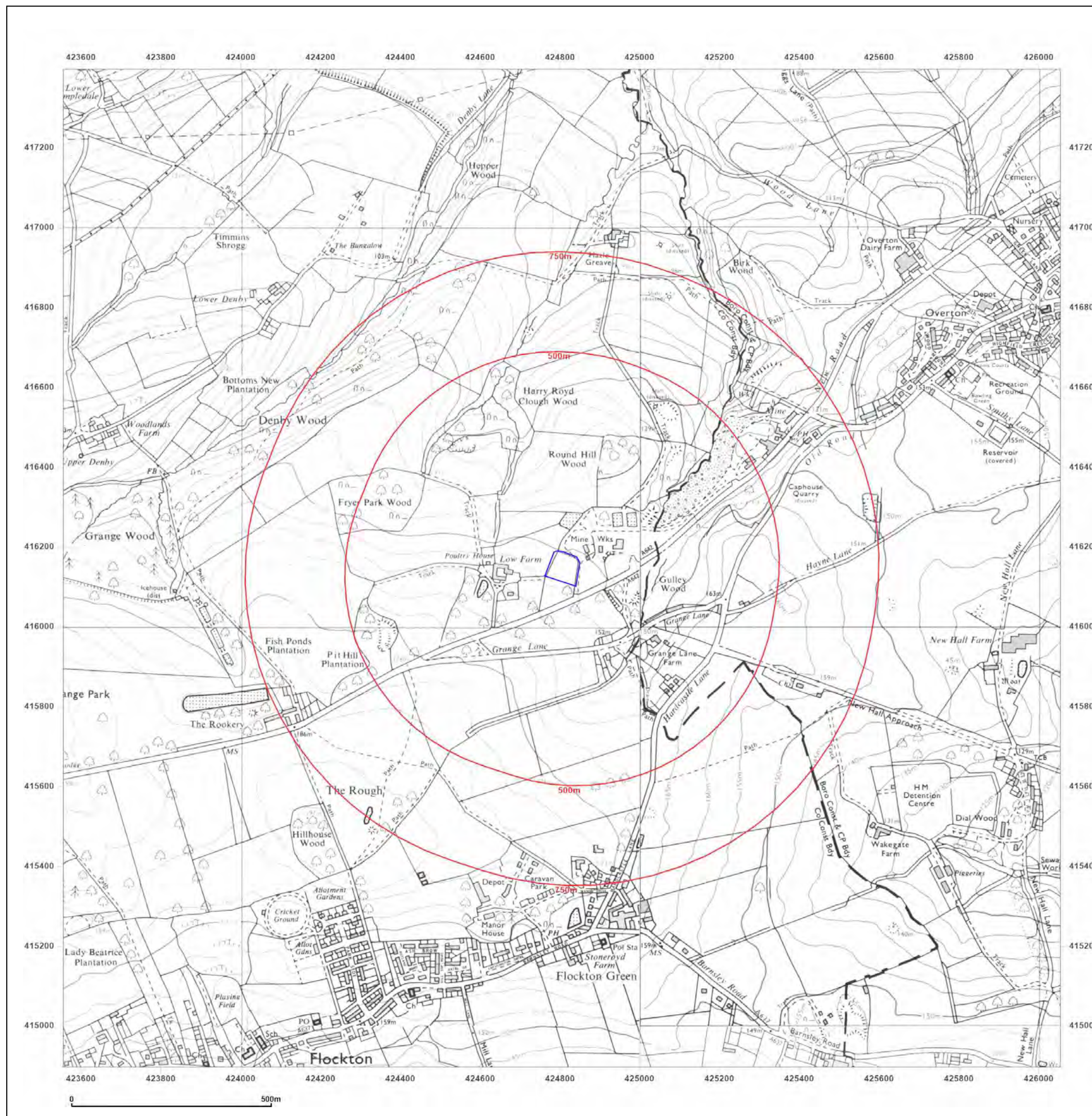


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: National Grid

Map date: 1988-1993

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1991
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1990
Revised 1992
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1990
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1980
Revised 1988
Edition N/A
Copyright N/A
Levelled N/A

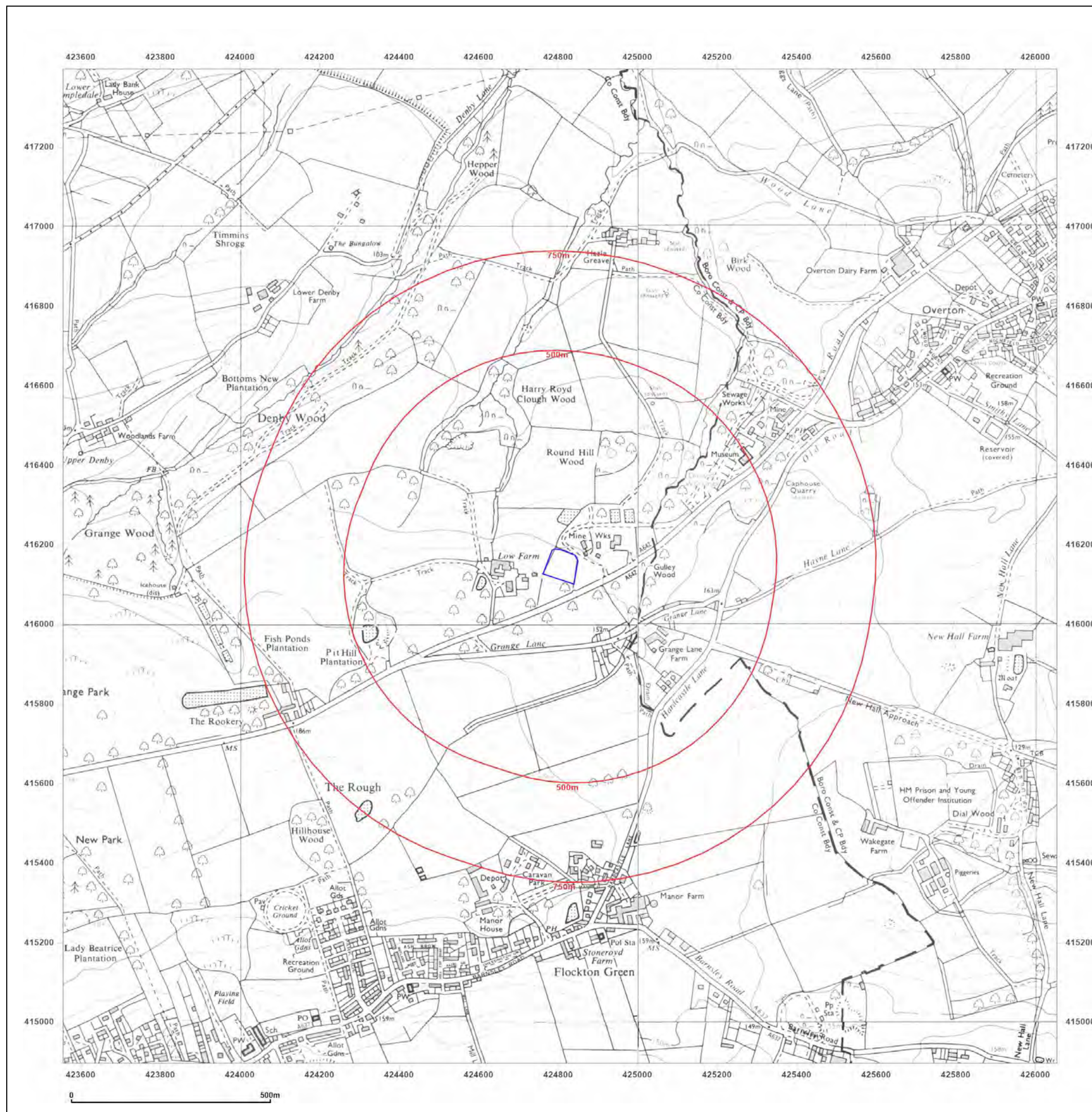


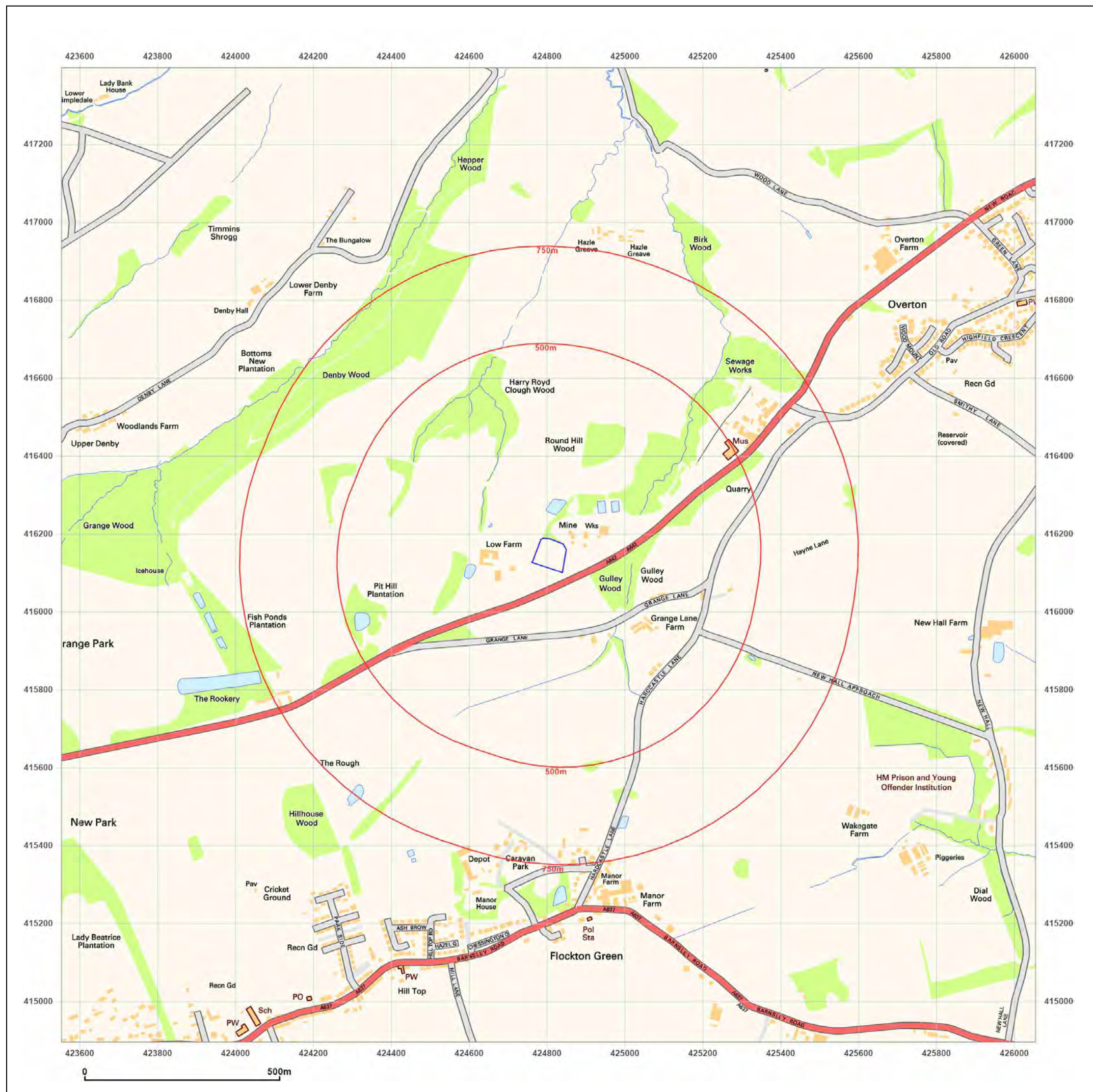
Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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





Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

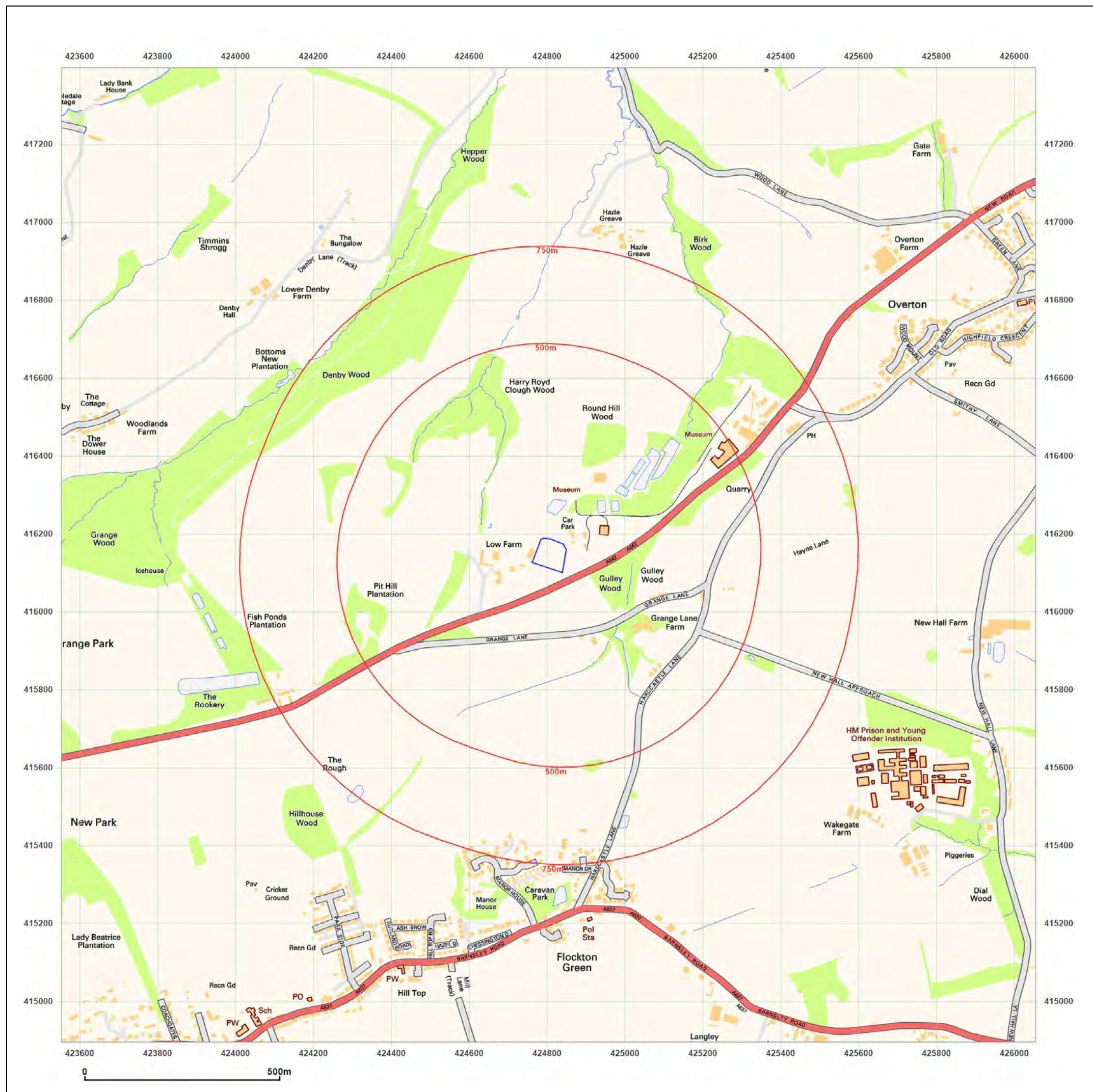


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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



Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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



Site Details:

423569, 415888

Client Ref: 70078523-S01_-_PO_20127710
Report Ref: WSP-7874415
Grid Ref: 424804, 416146

Map Name: National Grid

Map date: 2021

Scale: 1:10,000

Printed at: 1:10,000

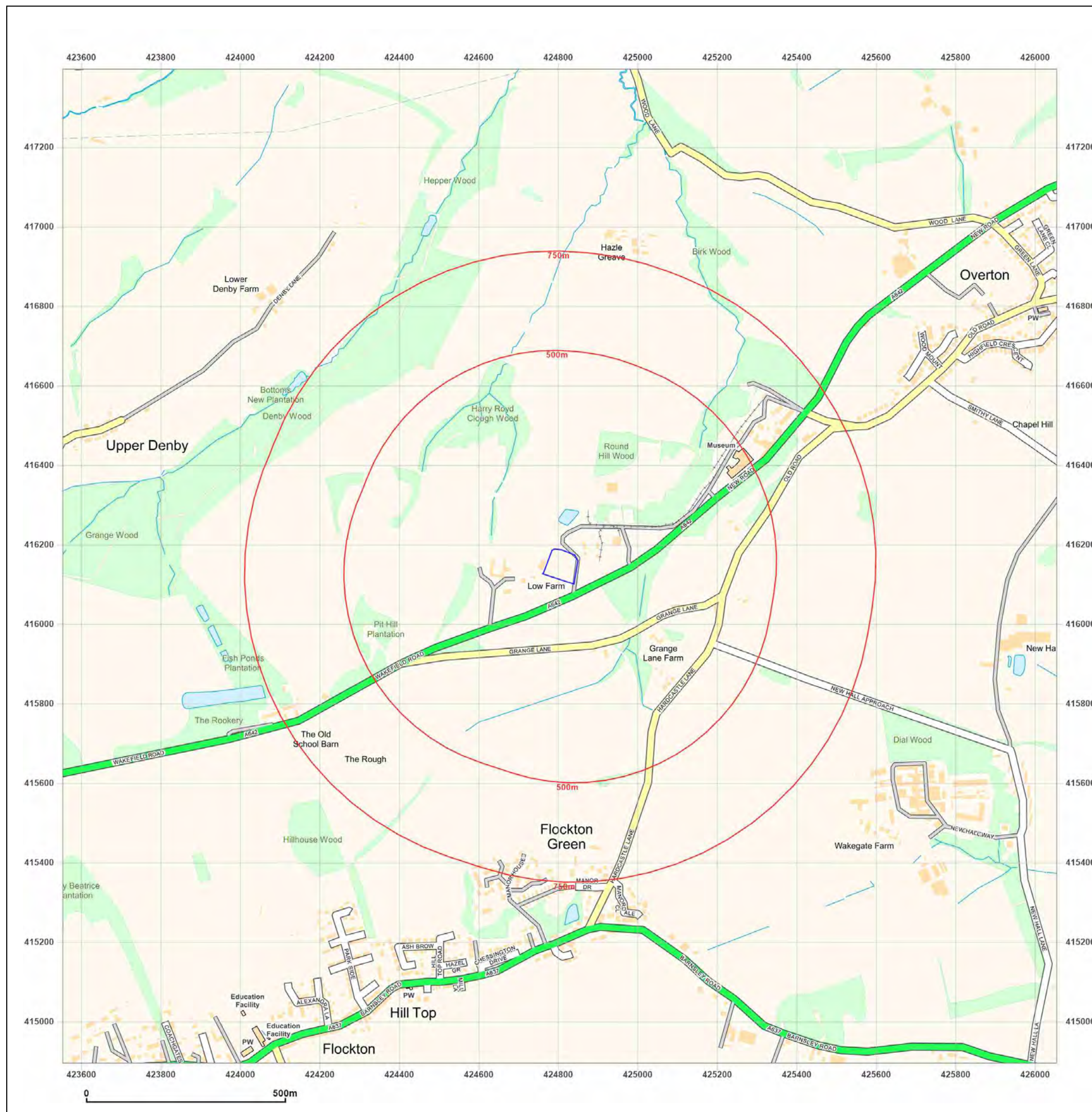


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

© Crown copyright and database rights 2021 Ordnance Survey 100035207

Production date: 19 May 2021

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



423569, 415888

Order Details

Date: 19/05/2021
Your ref: 70078523-S01_-_PO_20127710
Our Ref: WSP-7874417
Client: WSP UK LIMITED

Site Details

Location: 424805 416147
Area: 0.52 ha
Authority: [Kirklees Council](#)



© Crown copyright and database rights 2021. Ordnance Survey licence 100035207

Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.11

groundsure.com/insightuserguide

Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>12</u>	<u>1.1</u>	<u>Historical industrial land uses</u>	5	15	65	50	-
<u>17</u>	<u>1.2</u>	<u>Historical tanks</u>	0	0	0	1	-
18	1.3	Historical energy features	0	0	0	0	-
18	1.4	Historical petrol stations	0	0	0	0	-
18	1.5	Historical garages	0	0	0	0	-
19	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
<u>20</u>	<u>2.1</u>	<u>Historical industrial land uses</u>	7	18	91	84	-
<u>28</u>	<u>2.2</u>	<u>Historical tanks</u>	0	0	0	3	-
28	2.3	Historical energy features	0	0	0	0	-
28	2.4	Historical petrol stations	0	0	0	0	-
29	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
30	3.1	Active or recent landfill	0	0	0	0	-
30	3.2	Historical landfill (BGS records)	0	0	0	0	-
31	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
31	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
<u>31</u>	<u>3.5</u>	<u>Historical waste sites</u>	0	1	1	0	-
32	3.6	Licensed waste sites	0	0	0	0	-
<u>32</u>	<u>3.7</u>	<u>Waste exemptions</u>	0	0	13	1	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>34</u>	<u>4.1</u>	<u>Recent industrial land uses</u>	0	1	1	-	-
35	4.2	Current or recent petrol stations	0	0	0	0	-
35	4.3	Electricity cables	0	0	0	0	-
35	4.4	Gas pipelines	0	0	0	0	-
35	4.5	Sites determined as Contaminated Land	0	0	0	0	-



35	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
36	4.7	Regulated explosive sites	0	0	0	0	-
36	4.8	Hazardous substance storage/usage	0	0	0	0	-
36	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
36	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
36	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
37	4.12	Radioactive Substance Authorisations	0	0	0	0	-
37	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	5	3	-
38	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
38	4.15	Pollutant release to public sewer	0	0	0	0	-
39	4.16	List 1 Dangerous Substances	0	0	0	0	-
39	4.17	<u>List 2 Dangerous Substances</u>	0	0	1	0	-
39	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	1	1	-
40	4.19	Pollution inventory substances	0	0	0	0	-
40	4.20	Pollution inventory waste transfers	0	0	0	0	-
40	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
41	5.1	Superficial aquifer	None (within 500m)				
42	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
44	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
45	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
45	5.5	Groundwater vulnerability- local information	None (within 0m)				
46	5.6	Groundwater abstractions	0	0	0	0	0
46	5.7	Surface water abstractions	0	0	0	0	0
46	5.8	Potable abstractions	0	0	0	0	0
46	5.9	Source Protection Zones	0	0	0	0	-
47	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
48	6.1	<u>Water Network (OS MasterMap)</u>	0	0	7	-	-



49	6.2	<u>Surface water features</u>	0	0	8	-	-
49	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
50	6.4	<u>WFD Surface water bodies</u>	0	0	1	-	-
50	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
51	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
51	7.2	Historical Flood Events	0	0	0	-	-
51	7.3	Flood Defences	0	0	0	-	-
51	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
52	7.5	Flood Storage Areas	0	0	0	-	-
53	7.6	Flood Zone 2	None (within 50m)				
53	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
54	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding					
55	9.1	<u>Groundwater flooding</u>	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
56	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	0	1
57	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
57	10.3	<u>Special Areas of Conservation (SAC)</u>	0	0	0	0	1
57	10.4	Special Protection Areas (SPA)	0	0	0	0	0
58	10.5	National Nature Reserves (NNR)	0	0	0	0	0
58	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
58	10.7	<u>Designated Ancient Woodland</u>	0	0	0	1	6
59	10.8	Biosphere Reserves	0	0	0	0	0
59	10.9	Forest Parks	0	0	0	0	0
59	10.10	Marine Conservation Zones	0	0	0	0	0
59	10.11	<u>Green Belt</u>	1	0	1	0	0
60	10.12	Proposed Ramsar sites	0	0	0	0	0



60	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
60	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
60	10.15	Nitrate Sensitive Areas	0	0	0	0	0
61	10.16	<u>Nitrate Vulnerable Zones</u>	0	0	0	0	2
62	10.17	<u>SSSI Impact Risk Zones</u>	2	-	-	-	-
63	10.18	<u>SSSI Units</u>	0	0	0	0	1
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
65	11.1	World Heritage Sites	0	0	0	-	-
66	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
66	11.3	National Parks	0	0	0	-	-
66	11.4	Listed Buildings	0	0	0	-	-
66	11.5	<u>Conservation Areas</u>	1	0	0	-	-
67	11.6	Scheduled Ancient Monuments	0	0	0	-	-
67	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
68	12.1	<u>Agricultural Land Classification</u>	Grade 3 (within 250m)				
69	12.2	Open Access Land	0	0	0	-	-
69	12.3	<u>Tree Felling Licences</u>	0	0	1	-	-
69	12.4	Environmental Stewardship Schemes	0	0	0	-	-
69	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
70	13.1	<u>Priority Habitat Inventory</u>	0	0	6	-	-
71	13.2	Habitat Networks	0	0	0	-	-
71	13.3	Open Mosaic Habitat	0	0	0	-	-
71	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
72	14.1	<u>10k Availability</u>	Identified (within 500m)				
73	14.2	<u>Artificial and made ground (10k)</u>	0	1	8	11	-
75	14.3	Superficial geology (10k)	0	0	0	0	-

75	14.4	Landslip (10k)	0	0	0	0	-
76	14.5	<u>Bedrock geology (10k)</u>	1	0	10	15	-
78	14.6	<u>Bedrock faults and other linear features (10k)</u>	1	0	15	11	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
80	15.1	<u>50k Availability</u>	Identified (within 500m)				
81	15.2	<u>Artificial and made ground (50k)</u>	0	1	2	1	-
82	15.3	<u>Artificial ground permeability (50k)</u>	0	1	-	-	-
83	15.4	Superficial geology (50k)	0	0	0	0	-
83	15.5	Superficial permeability (50k)	None (within 50m)				
83	15.6	Landslip (50k)	0	0	0	0	-
83	15.7	Landslip permeability (50k)	None (within 50m)				
84	15.8	<u>Bedrock geology (50k)</u>	1	0	7	8	-
85	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
86	15.10	<u>Bedrock faults and other linear features (50k)</u>	1	0	9	4	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
87	16.1	<u>BGS Boreholes</u>	0	2	1	-	-
Page	Section	Natural ground subsidence					
89	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
90	17.2	<u>Running sands</u>	Very low (within 50m)				
92	17.3	<u>Compressible deposits</u>	Very low (within 50m)				
94	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
95	17.5	<u>Landslides</u>	Very low (within 50m)				
96	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
98	18.1	Natural cavities	0	0	0	0	-
99	18.2	<u>BritPits</u>	0	1	6	10	-
102	18.3	<u>Surface ground workings</u>	4	11	93	-	-
106	18.4	<u>Underground workings</u>	5	1	9	8	23
108	18.5	Historical Mineral Planning Areas	0	0	0	0	-



109	18.6	Non-coal mining	0	0	0	0	0
109	18.7	<u>Mining cavities</u>	0	0	0	0	1
109	18.8	JPB mining areas	None (within 0m)				
109	18.9	<u>Coal mining</u>	Identified (within 0m)				
110	18.10	Brine areas	None (within 0m)				
110	18.11	Gypsum areas	None (within 0m)				
110	18.12	Tin mining	None (within 0m)				
110	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
111	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
112	20.1	<u>BGS Estimated Background Soil Chemistry</u>	1	0	-	-	-
112	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
112	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
113	21.1	Underground railways (London)	0	0	0	-	-
113	21.2	Underground railways (Non-London)	0	0	0	-	-
114	21.3	Railway tunnels	0	0	0	-	-
114	21.4	<u>Historical railway and tunnel features</u>	0	1	3	-	-
114	21.5	Royal Mail tunnels	0	0	0	-	-
115	21.6	<u>Historical railways</u>	0	1	0	-	-
115	21.7	<u>Railways</u>	0	0	8	-	-
116	21.8	Crossrail 1	0	0	0	0	-
116	21.9	Crossrail 2	0	0	0	0	-
116	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2021. All Rights Reserved.

Capture Date: 01/07/2018

Site Area: 0.52ha



Recent site history - 2012 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2021. All Rights Reserved.

Capture Date: 26/03/2012

Site Area: 0.52ha



Recent site history - 1999 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2021. All Rights Reserved

Capture Date: 10/07/1999

Site Area: 0.52ha



OS MasterMap site plan



Site Area: 0.52ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks

1.1 Historical industrial land uses

Records within 500m

135

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 12**

ID	Location	Land use	Dates present	Group ID
1	On site	Collieries	1892	1460928



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Mine	1966	1458026
A	On site	Unspecified Mine	1982 - 1993	1459513
A	On site	Collieries	1905	1516362
A	On site	Collieries	1938	1516755
A	3m E	Unspecified Works	1993	1467424
A	3m E	Unspecified Works	1982	1472423
A	6m NE	Refuse Heap	1892 - 1905	1542327
A	19m NE	Unspecified Shafts	1905	1420558
A	25m NE	Unspecified Heap	1948	1541010
A	25m NE	Unspecified Heap	1938	1533014
A	28m NE	Unspecified Heap	1951	1515392
A	30m E	Railway Sidings	1905	1409343
A	30m E	Cuttings	1938	1526887
A	32m E	Cuttings	1948	1533456
A	32m E	Cuttings	1892	1502229
A	34m E	Unspecified Pit	1951	1451929
A	37m E	Cuttings	1966	1515216
A	49m NE	Unspecified Old Shaft	1938	1531056
A	50m NE	Railway Building	1905	1429053
A	51m NE	Unspecified Shafts	1905	1420557
A	51m NE	Unspecified Old Shaft	1948	1459100
A	52m NE	Mineral Railway Sidings	1892	1460747
A	52m NE	Unspecified Old Shaft	1951	1518236
A	57m NE	Mineral Railway Sidings	1938	1462403
A	62m E	Cuttings	1948	1469988
A	62m E	Collieries	1905	1515620
A	62m E	Cuttings	1905	1529934
A	66m E	Cuttings	1892	1495755



ID	Location	Land use	Dates present	Group ID
A	70m NE	Unspecified Kilns	1892	1431678
A	80m NE	Refuse Heap	1905	1436638
A	81m NE	Railway Building	1905	1429052
A	98m NE	Refuse Heap	1892 - 1905	1502872
2	103m E	Collieries	1955	1458310
A	104m NE	Unspecified Heap	1938	1538363
A	106m NE	Unspecified Shafts	1905	1420556
A	108m NE	Unspecified Heap	1966	1549789
A	111m NE	Unspecified Shaft	1938 - 1948	1528537
A	113m NE	Unspecified Shaft	1951	1511582
A	114m NE	Unspecified Kilns	1892	1431679
A	118m E	Refuse Heap	1948	1546330
A	120m E	Unspecified Ground Workings	1905	1414374
A	121m E	Refuse Heap	1892 - 1905	1531253
B	121m W	Unspecified Pit	1892	1477296
A	124m E	Refuse Heap	1938	1489383
C	125m E	Unspecified Pit	1951	1519015
B	125m W	Unspecified Pit	1951	1511487
B	125m W	Unspecified Pit	1905	1477690
B	125m W	Unspecified Pit	1948	1508020
B	127m W	Unspecified Pit	1938	1535606
A	127m E	Refuse Heap	1951	1493298
A	127m E	Unspecified Old Shaft	1905	1418261
A	131m SE	Cuttings	1905	1485718
A	131m SE	Cuttings	1948	1538458
A	133m E	Filter Tanks	1938 - 1951	1473528
A	135m NE	Unspecified Pit	1938	1460286
A	136m SE	Unspecified Pit	1951	1451928



ID	Location	Land use	Dates present	Group ID
A	136m NE	Unspecified Pit	1948	1485831
A	137m NE	Unspecified Pit	1951	1555605
C	138m E	Unspecified Pit	1905	1490207
A	138m E	Unspecified Heap	1966 - 1982	1501826
A	146m E	Filter Tanks	1938 - 1951	1516319
C	150m E	Cuttings	1948	1409810
A	151m NE	Unspecified Heap	1948	1525578
D	151m E	Unspecified Mine	1983	1458008
C	155m E	Unspecified Quarry	1955	1428006
A	158m NE	Refuse Heap	1905	1498482
D	159m NE	Refuse Heap	1892 - 1983	1474359
A	160m NE	Unspecified Pit	1951	1451927
A	172m NE	Unspecified Heap	1938	1490433
E	179m SE	Unspecified Ground Workings	1938	1486457
A	179m NE	Unspecified Heap	1955	1497866
A	179m NE	Unspecified Heap	1966 - 1983	1512048
E	185m SE	Unspecified Ground Workings	1948	1511814
F	204m SE	Cuttings	1905	1530023
F	205m SE	Cuttings	1938 - 1948	1527423
F	207m SE	Cuttings	1955	1554333
G	220m SW	Unspecified Heaps	1948	1439516
G	220m SW	Refuse Heap	1892 - 1905	1475878
G	224m S	Unspecified Ground Workings	1951	1486075
H	225m W	Refuse Heap	1892 - 1905	1521091
H	225m W	Unspecified Heap	1948 - 1951	1472493
G	225m SW	Unspecified Ground Workings	1938	1551528
H	226m W	Unspecified Heap	1938	1536872
3	246m E	Mineral Railway Sidings	1948	1531624



ID	Location	Land use	Dates present	Group ID
4	257m S	Refuse Heap	1905	1436637
F	271m SE	Cuttings	1966 - 1973	1509596
G	275m SW	Unspecified Old Shaft	1905	1418263
I	290m W	Unspecified Heap	1948 - 1951	1497564
I	291m W	Refuse Heap	1892 - 1905	1500976
I	294m W	Unspecified Heap	1938	1508034
J	316m NE	Refuse Heap	1892 - 1905	1484291
J	316m NE	Unspecified Heap	1948	1539216
K	318m NW	Unspecified Quarry	1892	1496469
J	321m NE	Unspecified Heap	1938	1552643
K	329m NW	Unspecified Quarry	1948 - 1966	1548236
K	329m NW	Unspecified Quarry	1905	1554632
K	330m NW	Unspecified Quarry	1938	1509209
L	333m SW	Clay Pit	1905	1436236
L	333m SW	Unspecified Pit	1948 - 1951	1461406
J	345m NE	Unspecified Heap	1955 - 1983	1458470
M	356m SW	Unspecified Heap	1951	1528342
N	357m NE	Unspecified Old Shaft	1948	1477466
M	359m SW	Unspecified Heap	1938	1491313
M	364m SW	Refuse Heap	1905	1436635
M	364m SW	Unspecified Heap	1948	1505463
O	378m SE	Cuttings	1955	1532065
O	382m SE	Cuttings	1905	1545547
N	391m NE	Unspecified Old Shaft	1955	1465265
P	392m W	Unspecified Heap	1951 - 1982	1526595
P	393m W	Unspecified Heap	1948	1499235
P	393m W	Refuse Heap	1892 - 1905	1515064
Q	393m E	Unspecified Quarry	1892 - 1905	1536942



ID	Location	Land use	Dates present	Group ID
Q	395m E	Unspecified Disused Quarry	1938	1518377
P	396m W	Unspecified Heap	1938	1481329
Q	397m E	Unspecified Disused Quarry	1948	1475712
Q	398m E	Unspecified Disused Quarry	1955 - 1973	1485650
N	399m NE	Refuse Heap	1892 - 1905	1508535
R	403m NE	Unspecified Mine	1966 - 1973	1498946
N	404m NE	Unspecified Old Shaft	1938	1527105
N	408m NE	Unspecified Heap	1955 - 1983	1467528
P	413m W	Unspecified Ground Workings	1993	1412249
N	419m NE	Unspecified Old Shaft	1905	1463297
N	422m NE	Unspecified Disused Shaft	1966 - 1992	1459080
R	431m NE	Refuse Heap	1966 - 1973	1530507
6	438m W	Brick and China Clay Works	1892	1435520
S	451m SW	Refuse Heap	1938 - 1951	1536993
S	452m SW	Refuse Heap	1905	1550461
S	453m SW	Refuse Heap	1892	1544030
R	459m NE	Unspecified Pit	1955	1491055
R	478m NE	Unspecified Pit	1938	1484389
R	488m NE	Unspecified Pit	1948	1531669
R	488m NE	Unspecified Pit	1905	1544647
7	490m S	Sand Pit	1891	1411154
R	498m NE	Refuse Heap	1892	1548487

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

1

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding



or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 12**

ID	Location	Land use	Dates present	Group ID
5	286m SE	Unspecified Tank	1960 - 1990	241799

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

0

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



1.6 Historical military land

Records within 500m

0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks

2.1 Historical industrial land uses

Records within 500m

200

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 20**

ID	Location	Land Use	Date	Group ID
1	On site	Collieries	1892	1460928
A	On site	Collieries	1905	1516362
A	On site	Unspecified Mine	1993	1459513



ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Mine	1982	1459513
A	On site	Unspecified Mine	1966	1458026
A	On site	Collieries	1938	1516755
A	On site	Collieries	1938	1516755
A	3m E	Unspecified Works	1993	1467424
A	3m E	Unspecified Works	1982	1472423
A	6m NE	Refuse Heap	1892	1542327
A	13m N	Refuse Heap	1905	1542327
A	19m NE	Unspecified Shafts	1905	1420558
A	25m NE	Unspecified Heap	1948	1541010
A	25m NE	Unspecified Heap	1938	1533014
A	25m NE	Unspecified Heap	1938	1533014
A	28m NE	Unspecified Heap	1951	1515392
A	30m E	Railway Sidings	1905	1409343
A	30m E	Cuttings	1938	1526887
A	32m E	Cuttings	1948	1533456
A	32m E	Cuttings	1892	1502229
A	34m E	Unspecified Pit	1951	1451929
A	37m E	Cuttings	1966	1515216
A	49m NE	Unspecified Old Shaft	1938	1531056
A	49m NE	Unspecified Old Shaft	1938	1531056
A	50m NE	Railway Building	1905	1429053
A	51m NE	Unspecified Shafts	1905	1420557
A	51m NE	Unspecified Old Shaft	1948	1459100
A	52m NE	Mineral Railway Sidings	1892	1460747
A	52m NE	Unspecified Old Shaft	1951	1518236
A	57m NE	Mineral Railway Sidings	1938	1462403
A	62m E	Collieries	1905	1515620



ID	Location	Land Use	Date	Group ID
A	62m E	Cuttings	1905	1529934
A	62m E	Cuttings	1948	1469988
A	66m E	Cuttings	1892	1495755
A	70m NE	Unspecified Kilns	1892	1431678
A	80m NE	Refuse Heap	1905	1436638
A	81m NE	Railway Building	1905	1429052
A	98m NE	Refuse Heap	1905	1502872
A	100m NE	Refuse Heap	1892	1502872
2	103m E	Collieries	1955	1458310
A	104m NE	Unspecified Heap	1938	1538363
A	104m NE	Unspecified Heap	1938	1538363
A	106m NE	Unspecified Shafts	1905	1420556
A	108m NE	Unspecified Heap	1966	1549789
A	111m NE	Unspecified Shaft	1938	1528537
A	111m NE	Unspecified Shaft	1938	1528537
A	113m NE	Unspecified Shaft	1948	1528537
A	113m NE	Unspecified Shaft	1951	1511582
A	114m NE	Unspecified Kilns	1892	1431679
A	118m E	Refuse Heap	1948	1546330
A	120m E	Unspecified Ground Workings	1905	1414374
A	121m E	Refuse Heap	1905	1531253
B	121m W	Unspecified Pit	1892	1477296
A	123m E	Refuse Heap	1892	1531253
A	124m E	Refuse Heap	1938	1489383
A	124m E	Refuse Heap	1938	1489383
C	125m E	Unspecified Pit	1951	1519015
B	125m W	Unspecified Pit	1951	1511487
B	125m W	Unspecified Pit	1905	1477690



ID	Location	Land Use	Date	Group ID
B	125m W	Unspecified Pit	1948	1508020
B	127m W	Unspecified Pit	1938	1535606
B	127m W	Unspecified Pit	1938	1535606
A	127m E	Refuse Heap	1951	1493298
A	127m E	Unspecified Old Shaft	1905	1418261
A	131m SE	Cuttings	1905	1485718
A	131m SE	Cuttings	1948	1538458
A	133m E	Filter Tanks	1938	1473528
A	133m E	Filter Tanks	1938	1473528
A	134m E	Filter Tanks	1948	1473528
A	135m NE	Unspecified Pit	1938	1460286
A	135m NE	Unspecified Pit	1938	1460286
A	136m SE	Unspecified Pit	1951	1451928
A	136m NE	Unspecified Pit	1948	1485831
A	137m E	Filter Tanks	1951	1473528
A	137m NE	Unspecified Pit	1951	1555605
C	138m E	Unspecified Pit	1905	1490207
A	138m E	Unspecified Heap	1982	1501826
A	138m E	Unspecified Heap	1966	1501826
A	146m E	Filter Tanks	1938	1516319
A	146m E	Filter Tanks	1938	1516319
A	147m E	Filter Tanks	1948	1516319
C	150m E	Cuttings	1948	1409810
A	150m E	Filter Tanks	1951	1516319
A	151m NE	Unspecified Heap	1948	1525578
D	151m E	Unspecified Mine	1983	1458008
C	155m E	Unspecified Quarry	1955	1428006
A	158m NE	Refuse Heap	1905	1498482



ID	Location	Land Use	Date	Group ID
A	159m NE	Refuse Heap	1892	1474359
A	160m NE	Unspecified Pit	1951	1451927
A	172m NE	Unspecified Heap	1938	1490433
A	172m NE	Unspecified Heap	1938	1490433
E	179m SE	Unspecified Ground Workings	1938	1486457
E	179m SE	Unspecified Ground Workings	1938	1486457
A	179m NE	Unspecified Heap	1955	1497866
A	179m NE	Unspecified Heap	1983	1512048
A	179m NE	Unspecified Heap	1966	1512048
A	179m NE	Unspecified Heap	1973	1512048
E	185m SE	Unspecified Ground Workings	1948	1511814
F	204m SE	Cuttings	1905	1530023
F	205m SE	Cuttings	1938	1527423
F	206m SE	Cuttings	1948	1527423
D	207m NE	Refuse Heap	1983	1474359
F	207m SE	Cuttings	1955	1554333
G	220m SW	Refuse Heap	1905	1475878
G	220m SW	Unspecified Heaps	1948	1439516
G	224m S	Unspecified Ground Workings	1951	1486075
H	225m W	Refuse Heap	1892	1521091
H	225m W	Unspecified Heap	1951	1472493
G	225m SW	Unspecified Ground Workings	1938	1551528
G	225m SW	Unspecified Ground Workings	1938	1551528
H	226m W	Refuse Heap	1905	1521091
H	226m W	Unspecified Heap	1948	1472493
H	226m W	Unspecified Heap	1938	1536872
H	226m W	Unspecified Heap	1938	1536872
G	231m S	Refuse Heap	1892	1475878

ID	Location	Land Use	Date	Group ID
3	246m E	Mineral Railway Sidings	1948	1531624
4	257m S	Refuse Heap	1905	1436637
F	271m SE	Cuttings	1966	1509596
F	271m SE	Cuttings	1973	1509596
G	275m SW	Unspecified Old Shaft	1905	1418263
J	290m W	Unspecified Heap	1951	1497564
J	291m W	Refuse Heap	1905	1500976
J	291m W	Unspecified Heap	1948	1497564
J	294m W	Refuse Heap	1892	1500976
J	294m W	Unspecified Heap	1938	1508034
J	294m W	Unspecified Heap	1938	1508034
K	316m NE	Refuse Heap	1905	1484291
K	316m NE	Unspecified Heap	1948	1539216
K	316m NE	Refuse Heap	1892	1484291
L	318m NW	Unspecified Quarry	1892	1496469
K	321m NE	Unspecified Heap	1938	1552643
K	321m NE	Unspecified Heap	1938	1552643
L	329m NW	Unspecified Quarry	1905	1554632
L	329m NW	Unspecified Quarry	1948	1548236
L	329m NW	Unspecified Quarry	1966	1548236
L	329m NW	Unspecified Quarry	1951	1548236
L	330m NW	Unspecified Quarry	1938	1509209
M	333m SW	Clay Pit	1905	1436236
M	333m SW	Unspecified Pit	1948	1461406
M	333m SW	Unspecified Pit	1951	1461406
K	345m NE	Unspecified Heap	1955	1458470
K	345m NE	Unspecified Heap	1983	1458470
K	345m NE	Unspecified Heap	1966	1458470



ID	Location	Land Use	Date	Group ID
K	345m NE	Unspecified Heap	1973	1458470
N	356m SW	Unspecified Heap	1951	1528342
O	357m NE	Unspecified Old Shaft	1948	1477466
N	359m SW	Unspecified Heap	1938	1491313
N	359m SW	Unspecified Heap	1938	1491313
N	364m SW	Refuse Heap	1905	1436635
N	364m SW	Unspecified Heap	1948	1505463
P	378m SE	Cuttings	1955	1532065
P	382m SE	Cuttings	1905	1545547
O	391m NE	Unspecified Old Shaft	1955	1465265
Q	392m W	Unspecified Heap	1982	1526595
Q	392m W	Unspecified Heap	1966	1526595
Q	392m W	Unspecified Heap	1951	1526595
Q	393m W	Refuse Heap	1905	1515064
Q	393m W	Unspecified Heap	1948	1499235
R	393m E	Unspecified Quarry	1892	1536942
R	395m E	Unspecified Disused Quarry	1938	1518377
Q	396m W	Unspecified Heap	1938	1481329
Q	396m W	Unspecified Heap	1938	1481329
R	397m E	Unspecified Quarry	1905	1536942
R	397m E	Unspecified Disused Quarry	1948	1475712
R	398m E	Unspecified Disused Quarry	1955	1485650
R	398m E	Unspecified Disused Quarry	1966	1485650
R	398m E	Unspecified Disused Quarry	1973	1485650
O	399m NE	Refuse Heap	1905	1508535
Q	401m W	Refuse Heap	1892	1515064
S	403m NE	Unspecified Mine	1966	1498946
S	403m NE	Unspecified Mine	1973	1498946



ID	Location	Land Use	Date	Group ID
O	404m NE	Unspecified Old Shaft	1938	1527105
O	404m NE	Unspecified Old Shaft	1938	1527105
O	408m NE	Unspecified Heap	1955	1467528
O	408m NE	Unspecified Heap	1983	1467528
O	408m NE	Unspecified Heap	1966	1467528
O	408m NE	Unspecified Heap	1973	1467528
Q	413m W	Unspecified Ground Workings	1993	1412249
O	413m NE	Refuse Heap	1892	1508535
O	419m NE	Unspecified Old Shaft	1905	1463297
O	422m NE	Unspecified Disused Shaft	1992	1459080
O	422m NE	Unspecified Disused Shaft	1983	1459080
O	422m NE	Unspecified Disused Shaft	1966	1459080
O	422m NE	Unspecified Disused Shaft	1973	1459080
S	431m NE	Refuse Heap	1966	1530507
S	431m NE	Refuse Heap	1973	1530507
5	438m W	Brick and China Clay Works	1892	1435520
T	451m SW	Refuse Heap	1951	1536993
T	452m SW	Refuse Heap	1905	1550461
T	452m SW	Refuse Heap	1948	1536993
T	453m SW	Refuse Heap	1892	1544030
T	453m SW	Refuse Heap	1938	1536993
T	453m SW	Refuse Heap	1938	1536993
S	459m NE	Unspecified Pit	1955	1491055
S	478m NE	Unspecified Pit	1938	1484389
S	478m NE	Unspecified Pit	1938	1484389
S	488m NE	Unspecified Pit	1905	1544647
S	488m NE	Unspecified Pit	1948	1531669
6	490m S	Sand Pit	1891	1411154



ID	Location	Land Use	Date	Group ID
S	498m NE	Refuse Heap	1892	1548487

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

3

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 20**

ID	Location	Land Use	Date	Group ID
I	286m SE	Unspecified Tank	1974	241799
I	286m SE	Unspecified Tank	1960	241799
I	287m SE	Unspecified Tank	1990	241799

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

0

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



2.5 Historical garages

Records within 500m

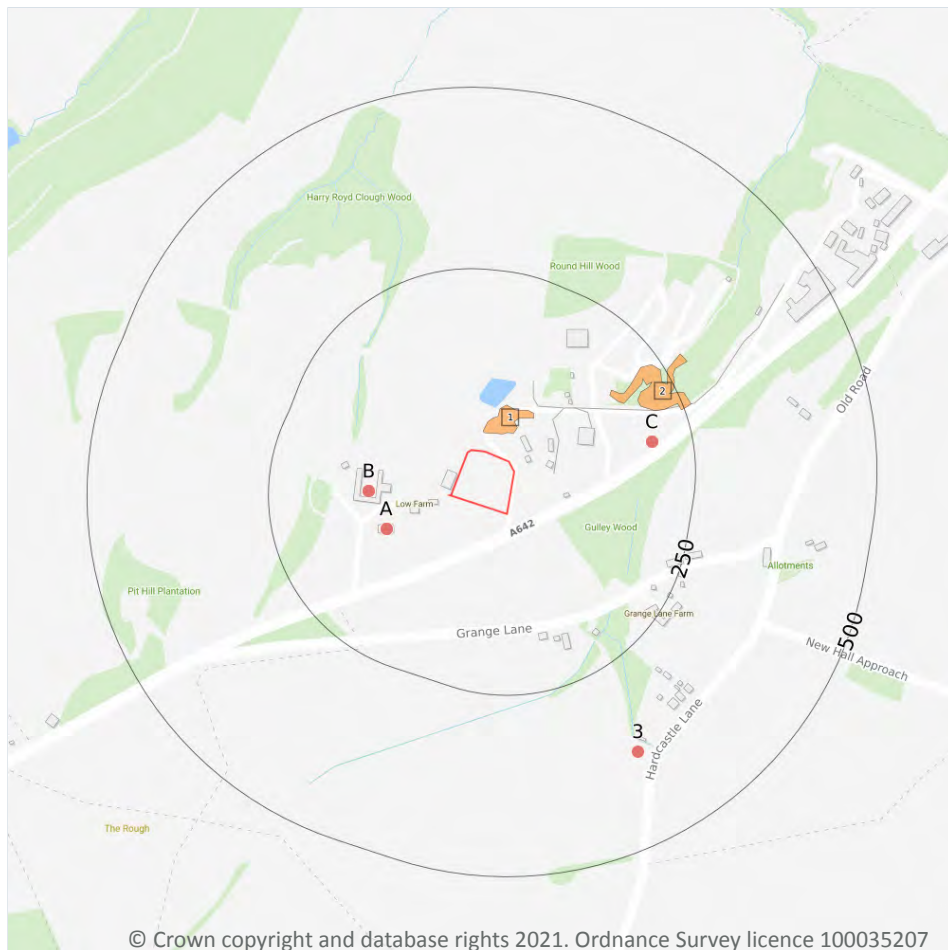
0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m

0

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m

2

Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 30**

ID	Location	Address	Further Details	Date
1	25m N	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1960
2	166m NE	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1960

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.



3.6 Licensed waste sites

Records within 500m

0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m

14

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 30**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	100m SW	7 LOW FARM, WAKEFIELD ROAD, GRANGE MOOR, WAKEFIELD, WF4 4BB	WEX141840	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	100m SW	7 LOW FARM, WAKEFIELD ROAD, GRANGE MOOR, WAKEFIELD, WF4 4BB	WEX141840	Disposing of waste exemption	On a farm	Burning waste in the open
A	100m SW	7 LOW FARM, WAKEFIELD ROAD, GRANGE MOOR, WAKEFIELD, WF4 4BB	WEX141840	Using waste exemption	On a farm	Use of waste for a specified purpose
A	100m SW	7 LOW FARM, WAKEFIELD ROAD, GRANGE MOOR, WAKEFIELD, WF4 4BB	WEX043099	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	100m SW	7 LOW FARM, WAKEFIELD ROAD, GRANGE MOOR, WAKEFIELD, WF4 4BB	WEX043099	Disposing of waste exemption	On a farm	Burning waste in the open
A	100m SW	7 LOW FARM, WAKEFIELD ROAD, GRANGE MOOR, WAKEFIELD, WF4 4BB	WEX043099	Using waste exemption	On a farm	Use of waste for a specified purpose
B	112m W	Low Farm 51 Wakefield Road Wakefield WF4 4BB	EPR/SE5084GB /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
B	112m W	Low Farm 51 Wakefield Road Wakefield WF4 4BB	EPR/SE5084GB /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open

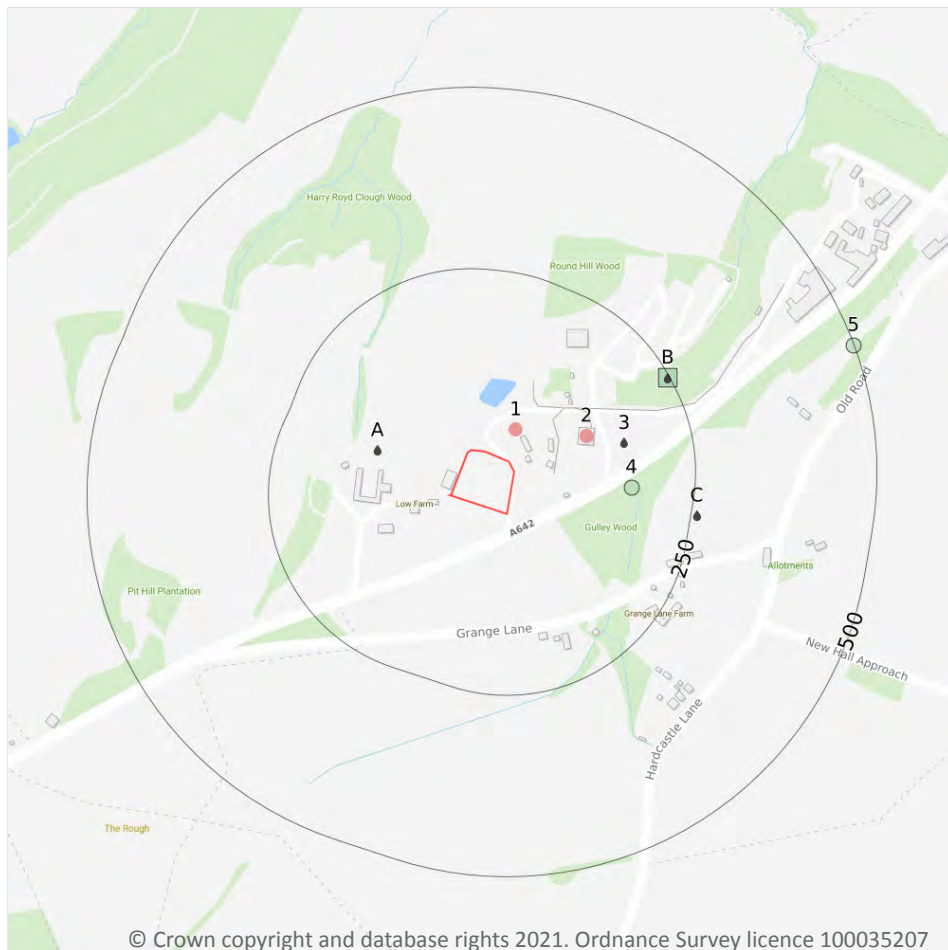


ID	Location	Site	Reference	Category	Sub-Category	Description
B	112m W	Low Farm 51 Wakefield Road Wakefield WF4 4BB	EPR/SE5084GB/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
C	194m E	Low Farm 51 Wakefield Road WAKEFIELD WF4 4BB	EPR/CE5249NS/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
C	194m E	Low Farm 51 Wakefield Road WAKEFIELD WF4 4BB	EPR/CE5249NS/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
C	194m E	Low Farm 51 Wakefield Road WAKEFIELD WF4 4BB	EPR/CE5249NS/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
C	194m E	Low Farm 51 Wakefield Road WAKEFIELD WF4 4BB	EPR/CE5249NS/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
3	375m SE	LANGLEY HOLME FARM, BARNSELY ROAD, FLOCKTON, WAKEFIELD, WF4 4AT	WEX006877	Storing waste exemption	On a farm	Storage of sludge

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Licensed Discharges to controlled waters
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

2

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 34**

ID	Location	Company	Address	Activity	Category
1	45m NE	Electricity Sub Station	West Yorkshire, WF4	Electrical Features	Infrastructure and Facilities
2	111m NE	Works	West Yorkshire, WF4	Unspecified Works Or Factories	Industrial Features

This data is sourced from Ordnance Survey.



4.2 Current or recent petrol stations

Records within 500m**0**

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m**0**

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m**0**

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

0

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m

8

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 34**

ID	Location	Address	Details	
A	117m W	LOW FARM, OFF A642, FLOCKTON, WAKEFIELD, WEST YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA8951 Permit Version: 1 Receiving Water: GROUNDWATER VIA SOAKAWAY	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 10/05/2006 Effective Date: 10/05/2006 Revocation Date: 25/07/2012
A	117m W	LOW FARM, OFF A642, FLOCKTON, WAKEFIELD, WEST YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: WRA8951 Permit Version: 2 Receiving Water: GROUNDWATER VIA SOAKAWAY	Status: VARIED UNDER EPR 2010 Issue date: 26/07/2012 Effective Date: 26/07/2012 Revocation Date: -
3	156m E	CAPHOUSE COLLIERY, OVERTON, WAKEFIELD, WEST YORKSHIRE	Effluent Type: TRADE DISCHARGES - MINERAL WORKINGS Permit Number: 3346 Permit Version: 1 Receiving Water: TRIBUTARY OF SMITHY BROOK	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 06/03/1979 Effective Date: 06/03/1979 Revocation Date: 17/06/2004
B	247m NE	NATIONAL COAL MINING MUSEUM, CAPHOUSE COLLIERY, NEW ROAD, OVERTON, WAKEFIELD	Effluent Type: TRADE DISCHARGES - MINERAL WORKINGS Permit Number: WRA7882 Permit Version: 1 Receiving Water: SMITHY BECK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 07/11/2002 Effective Date: 07/11/2002 Revocation Date: 30/09/2004



ID	Location	Address	Details	
B	247m NE	NATIONAL COAL MINING MUSEUM, CAPHOUSE COLLIERY, NEW ROAD, OVERTON, WAKEFIELD	Effluent Type: TRADE DISCHARGES - MINERAL WORKINGS Permit Number: WRA7882 Permit Version: 2 Receiving Water: SMITHY BECK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 01/10/2004 Effective Date: 01/10/2004 Revocation Date: -
C	258m E	GRANGE LANE STW, GRANGE LANE, WAKEFIELD, WEST YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: E736(SS) Permit Version: 1 Receiving Water: TRIBUTARY OF SMITHY BROOK	Status: TRANSFERRED FROM 1975 REGULATIONS Issue date: 16/12/1981 Effective Date: 16/12/1981 Revocation Date: 09/11/1985
C	258m E	GRANGE LANE STW, GRANGE LANE, WAKEFIELD, WEST YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: E736(SS) Permit Version: 2 Receiving Water: TRIBUTARY OF SMITHY BROOK	Status: TRANSFERRED FROM COPA 1974 Issue date: 10/11/1985 Effective Date: 10/11/1985 Revocation Date: 09/10/1996
C	258m E	GRANGE LANE STW, GRANGE LANE, WAKEFIELD, WEST YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: E736(SS) Permit Version: 3 Receiving Water: TRIBUTARY OF SMITHY BROOK	Status: REVISED CONSENT, BY NOTICE (SECTION 37(1)) Issue date: 10/10/1996 Effective Date: 10/10/1996 Revocation Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.



4.16 List 1 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m

1

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 34**

ID	Location	Name	Status	Receiving Water	Authorised Substances
B	247m NE	National Coal Mining Museum	Active	River Calder	Iron

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m

2

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 34**

ID	Location	Details	
4	162m E	Incident Date: 04/02/2002 Incident Identification: 56319 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
5	498m E	Incident Date: 29/01/2002 Incident Identification: 55241 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.



4.19 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

Records within 500m

0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Hydrogeology - Superficial aquifer

5.1 Superficial aquifer

Records within 500m

0

Aquifer status of groundwater held within superficial geology.

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 42**

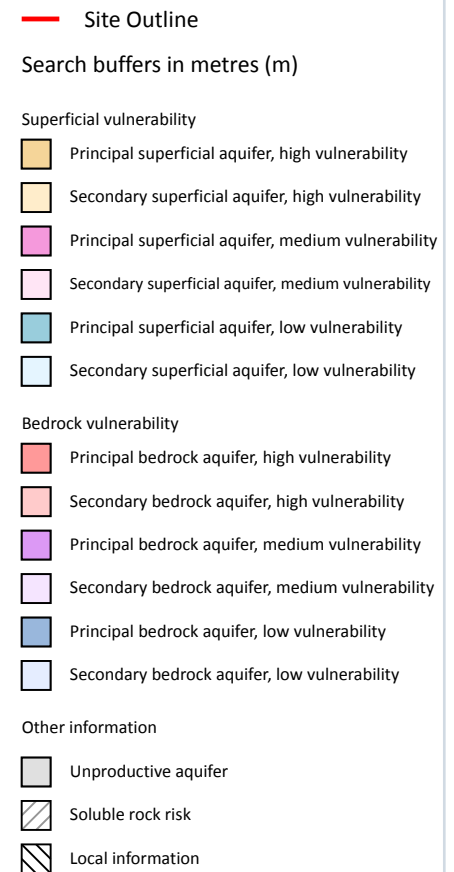
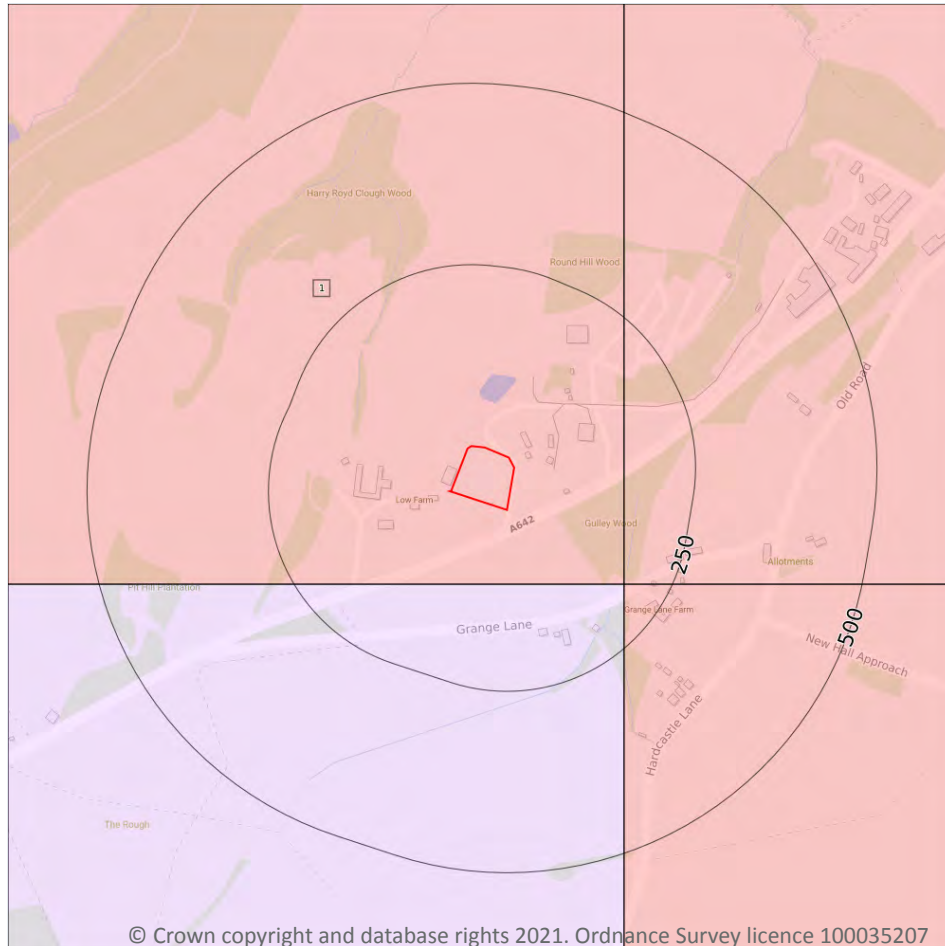
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	152m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers



This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

1

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid.

Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 44**



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0
------------------------	----------

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site	0
------------------------	----------

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones

5.6 Groundwater abstractions

Records within 2000m

0

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m

0

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m

0

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.



5.10 Source Protection Zones (confined aquifer)

Records within 500m

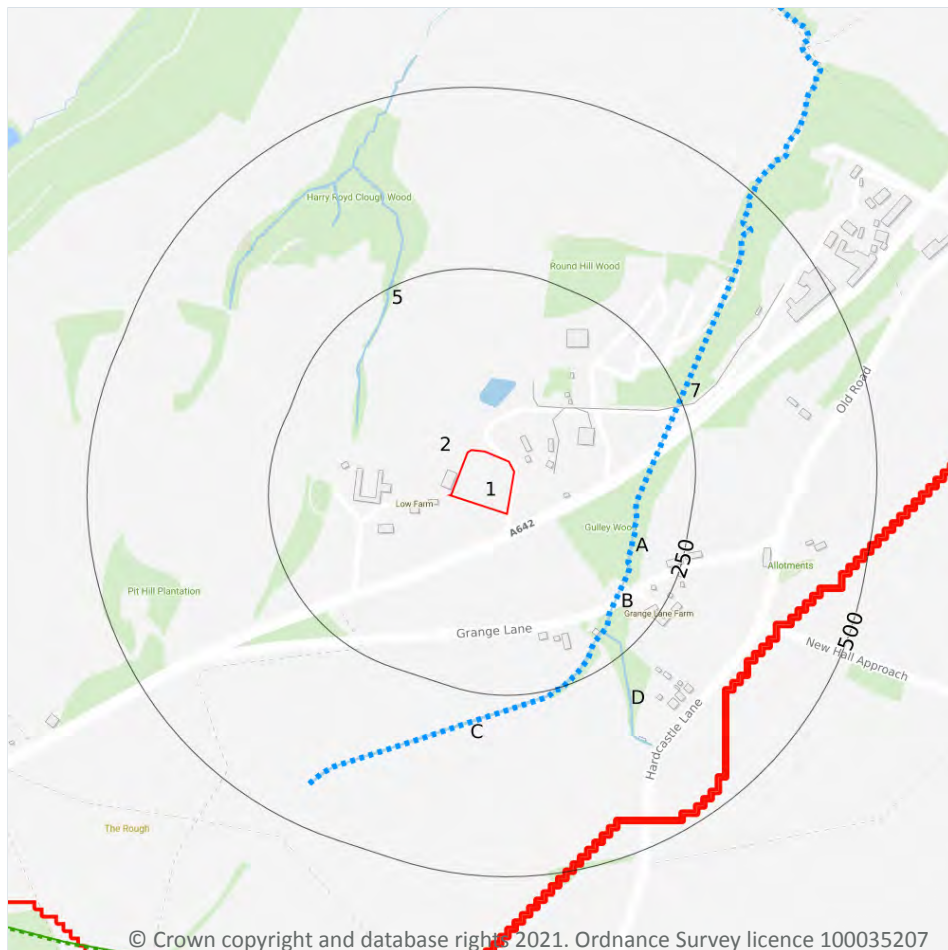
0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

7

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 48**

ID	Location	Type of water feature	Ground level	Permanence	Name
5	156m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
A	173m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	174m E	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
B	185m SE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
B	195m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	209m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	209m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

8

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 48**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 48**



ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	On site	River WB catchment	Smithy Brook from Source to River Calder	GB104027062510	Lower Calder	Aire and Calder

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	1
---------------------------	----------

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 48**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
6	174m E	River	Smithy Brook from Source to River Calder	GB104027062510	Moderate	Good	Moderate	2016

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	1
------------------------	----------

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 48**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Aire & Calder Carb Limestone / Millstone Grit / Coal Measures.	GB40402G700400	Poor	Poor	Good	2015

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m

0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding

8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

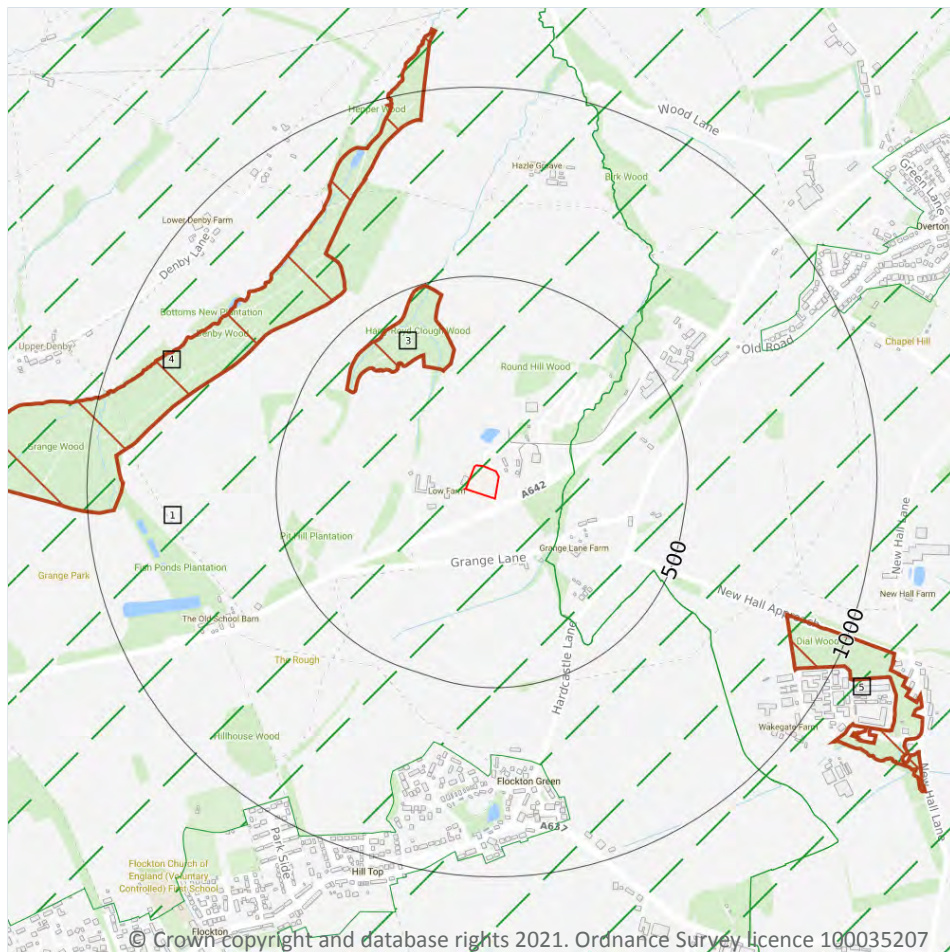
Negligible

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 55**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Special Areas of Conservation (SAC)
- ▨ Designated Ancient Woodland
- ▨ Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

1

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 56**

ID	Location	Name	Data source
-	1966m E	Denby Grange Colliery Ponds	Natural England



This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m

1

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

Features are displayed on the Environmental designations map on **page 56**

ID	Location	Name	Features of interest	Habitat description	Data source
-	1966m E	Denby Grange Colliery Ponds	Great crested newt.	Inland water bodies (Standing water, Running water); Improved grassland; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Broad-leaved deciduous woodland; Coniferous woodland	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m

0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.5 National Nature Reserves (NNR)

Records within 2000m**0**

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m**0**

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m**7**

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 56**

ID	Location	Name	Woodland Type
3	265m N	Harry Royd Clough Wood	Ancient Replanted Woodland
4	576m NW	Grange, Hepper And Denby Woods	Ancient Replanted Woodland
5	830m E	Unknown	Ancient Replanted Woodland
-	1359m E	Sun Wood	Ancient & Semi-Natural Woodland
-	1495m S	Unknown	Ancient & Semi-Natural Woodland
-	1782m S	Epley Wood	Ancient Replanted Woodland
-	1944m SE	Bank Wood	Ancient Replanted Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

2

Areas designated to prevent urban sprawl by keeping land permanently open.

Features are displayed on the Environmental designations map on **page 56**

ID	Location	Name	Local Authority name
1	On site	South and West Yorkshire	Kirklees
2	174m E	South and West Yorkshire	Wakefield

This data is sourced from the Ministry of Housing, Communities and Local Government.



10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.



10.16 Nitrate Vulnerable Zones

Records within 2000m**2**

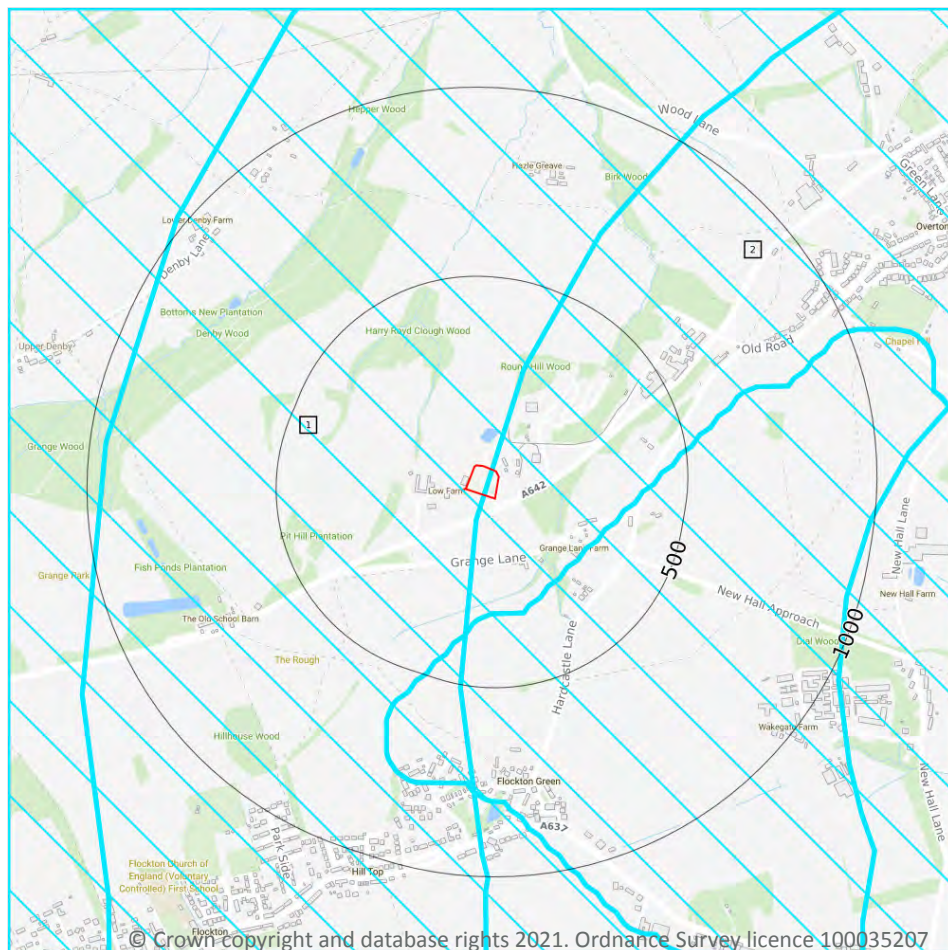
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
702m SE	River Dearne NVZ	Surface Water	S278	Existing
920m SW	River Dearne NVZ	Surface Water	S278	Existing

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

2

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 62**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t) Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion
2	On site	Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 200m² & manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

1

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on **page 62**

ID: -

Location: 1966m E

SSSI name: Denby Grange Colliery Ponds

Unit name: New Hall Wood

Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland

Condition: Unfavourable - Recovering

Reportable features:

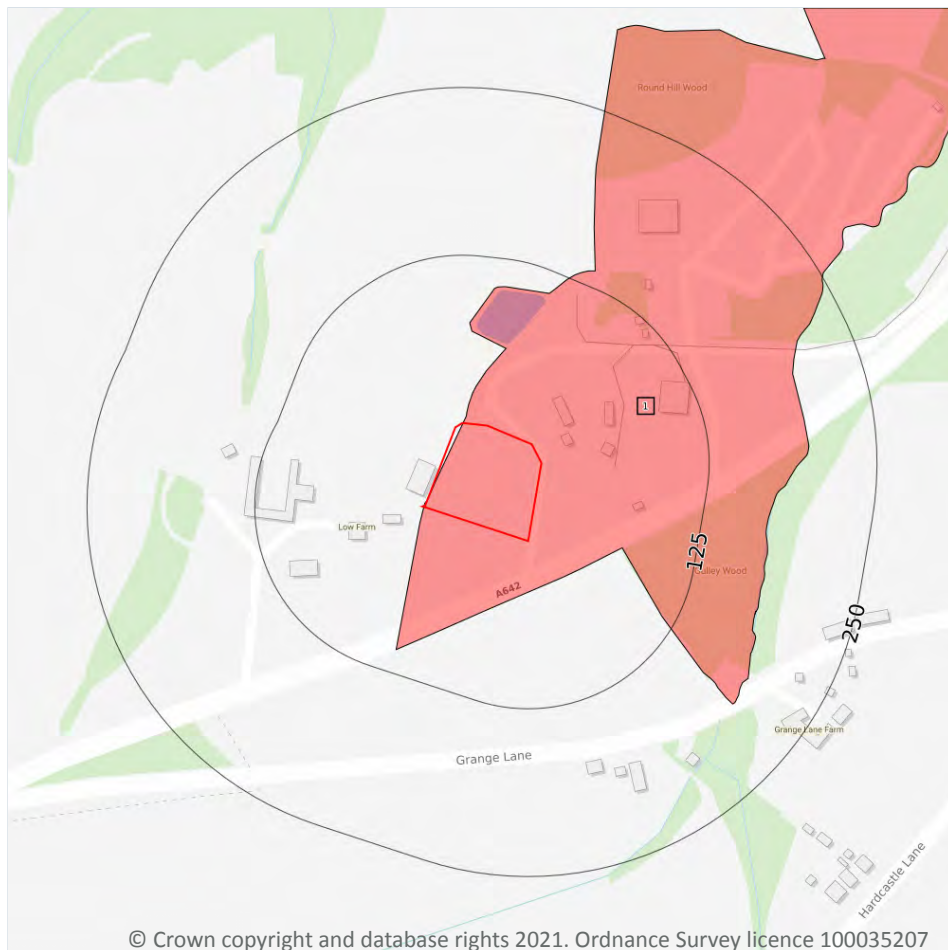


Feature name	Feature condition	Date of assessment
Amphibian assemblage	Unfavourable - Recovering	19/11/2013
Great Crested Newt, Triturus cristatus	Unfavourable - Recovering	19/11/2013
S1166 Great crested newt, Triturus cristatus	Unfavourable - Recovering	19/11/2013

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m**0**

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m**0**

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m**0**

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m**1**

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.



Features are displayed on the Visual and cultural designations map on **page 65**

ID	Location	Name	District	Date of designation
1	On site	Hope Pit	Kirklees	01/02/1995

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

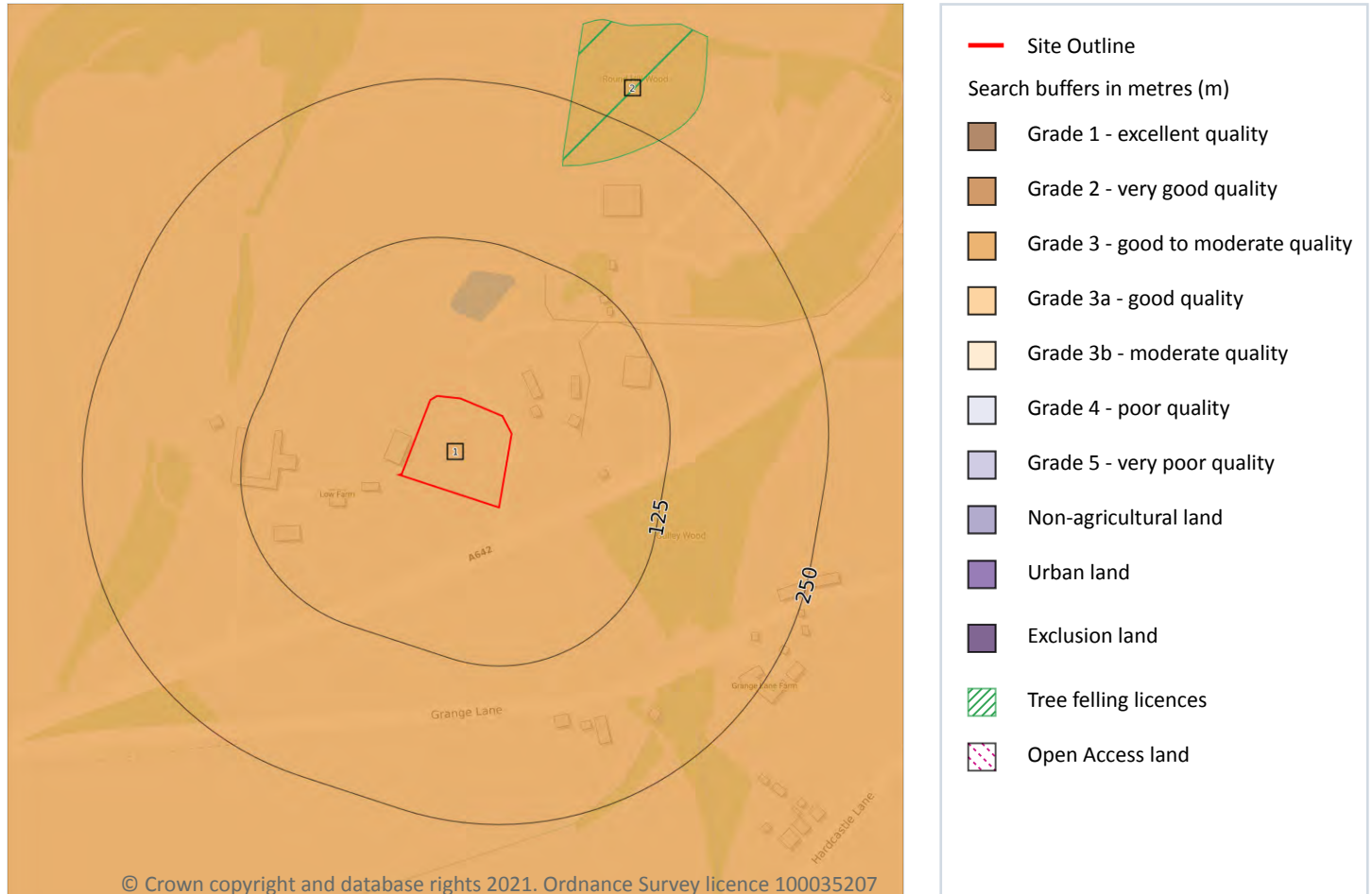
0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

1

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 68**

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

1

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

Features are displayed on the Agricultural designations map on **page 68**

ID	Location	Description	Reference	Application date
2	200m NE	Selective Fell/Thin (Unconditional)	012/65/12-13	17/08/2012

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

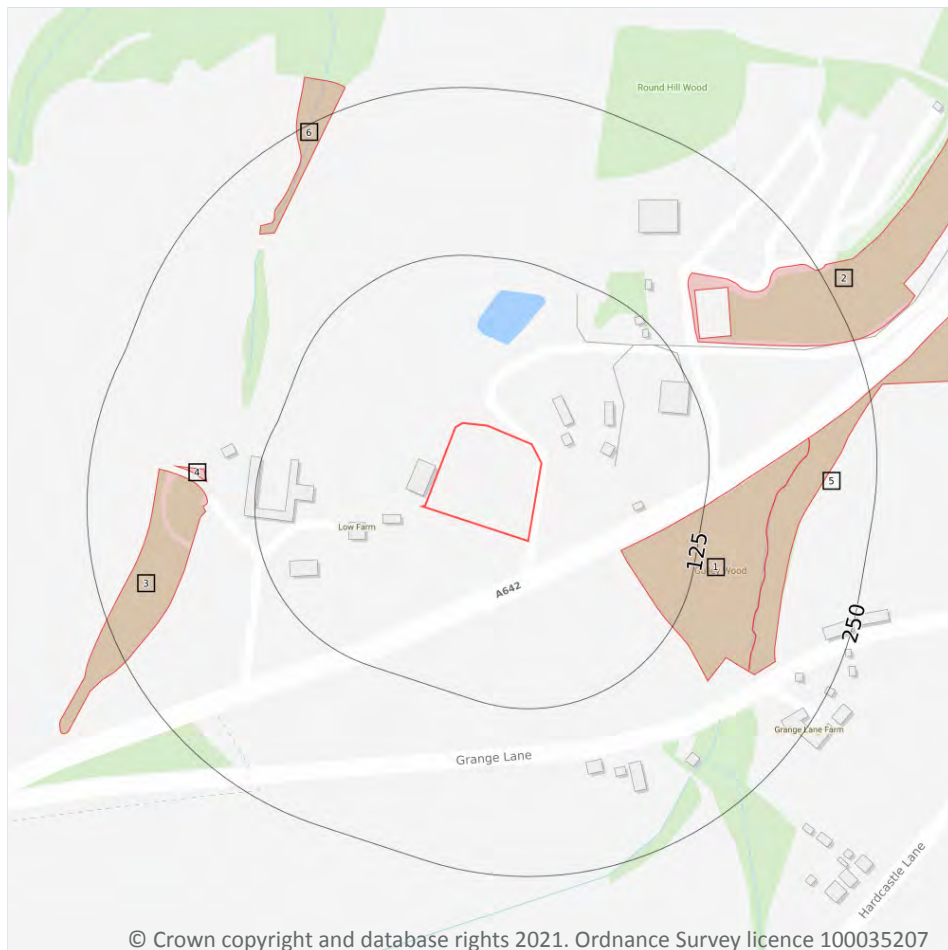
0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations



© Crown copyright and database rights 2021. Ordnance Survey licence 100035207

- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

6

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on **page 70**

ID	Location	Main Habitat	Other habitats
1	69m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	146m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	160m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	162m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
5	174m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	198m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

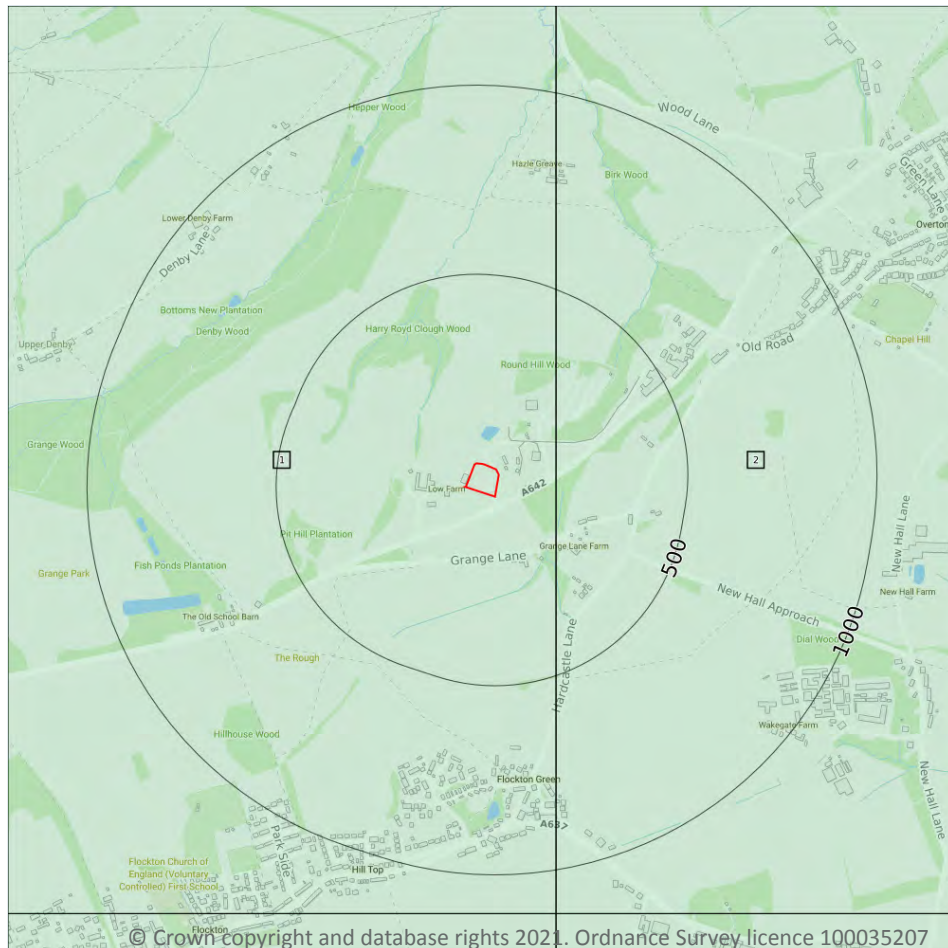
0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

2

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme. Features are displayed on the Geology 1:10,000 scale - Availability map on **page 72**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SE21NW
2	152m E	Full	Full	Full	Full	SE21NE

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground



- Site Outline
- Search buffers in metres (m)
- Reclaimed ground
 - Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

20

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 73**

ID	Location	LEX Code	Description	Rock description
1	2m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	122m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	152m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	172m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit



ID	Location	LEX Code	Description	Rock description
5	182m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
6	192m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	199m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	201m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	212m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
8	305m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	312m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
10	329m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
B	357m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
11	399m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
12	410m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
B	410m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
13	443m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
14	481m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
15	483m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
16	485m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

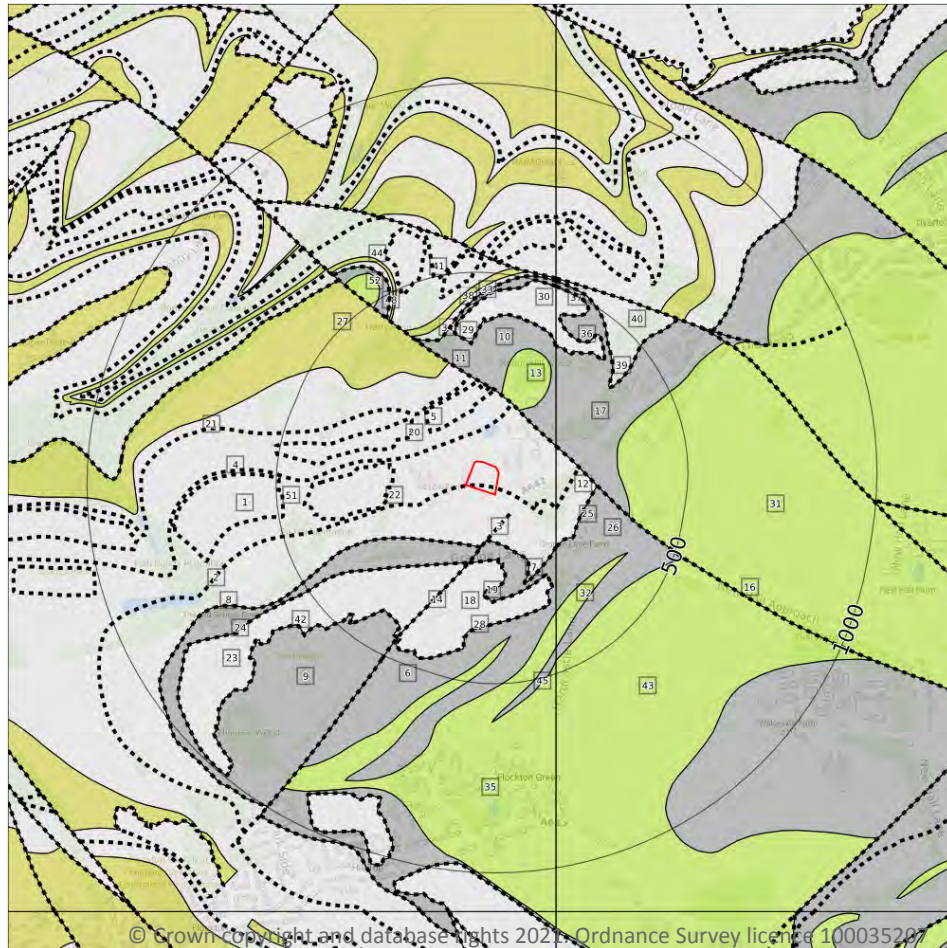
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

26

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 76**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
6	123m S	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovan Sub-age - Duckmantian Sub-age

ID	Location	LEX Code	Description	Rock age
9	144m S	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
10	148m NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
12	152m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
13	162m NE	TR-SDST	Thornhill Rock - Sandstone	Duckmantian Sub-age
17	167m NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
18	172m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
23	193m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
26	212m SE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
27	247m NW	BRSR-SDST	Birstall Rock - Sandstone	Langsettian Sub-age
30	312m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
31	315m E	TR-SDST	Thornhill Rock - Sandstone	Duckmantian Sub-age
32	327m SE	TR-SDST	Thornhill Rock - Sandstone	Duckmantian Sub-age
34	336m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
35	350m SE	TR-SDST	Thornhill Rock - Sandstone	Duckmantian Sub-age
37	357m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
38	362m N	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
40	367m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
41	385m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
43	414m SE	TR-SDST	Thornhill Rock - Sandstone	Duckmantian Sub-age
44	433m NW	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
45	435m S	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
46	439m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
48	447m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
52	489m NW	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

27

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 76**

ID	Location	Category	Description
2	On site	ROCK	Ironstone bed, inferred
3	64m SE	FAULT	Normal fault, inferred; downthrow not specified
4	73m N	ROCK	Coal seam, inferred
5	122m NW	ROCK	Coal seam, observed
7	123m S	ROCK	Coal seam, inferred
8	144m S	ROCK	Coal seam, inferred
11	148m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
14	164m S	FAULT	Normal fault, observed; downthrow not specified
15	165m E	ROCK	Ironstone bed, inferred
16	167m NE	FAULT	Normal fault, inferred
19	172m S	ROCK	Coal seam, observed
20	182m NW	ROCK	Coal seam, observed
21	190m NW	ROCK	Coal seam, inferred
22	192m W	ROCK	Coal seam, observed
24	193m S	ROCK	Coal seam, observed

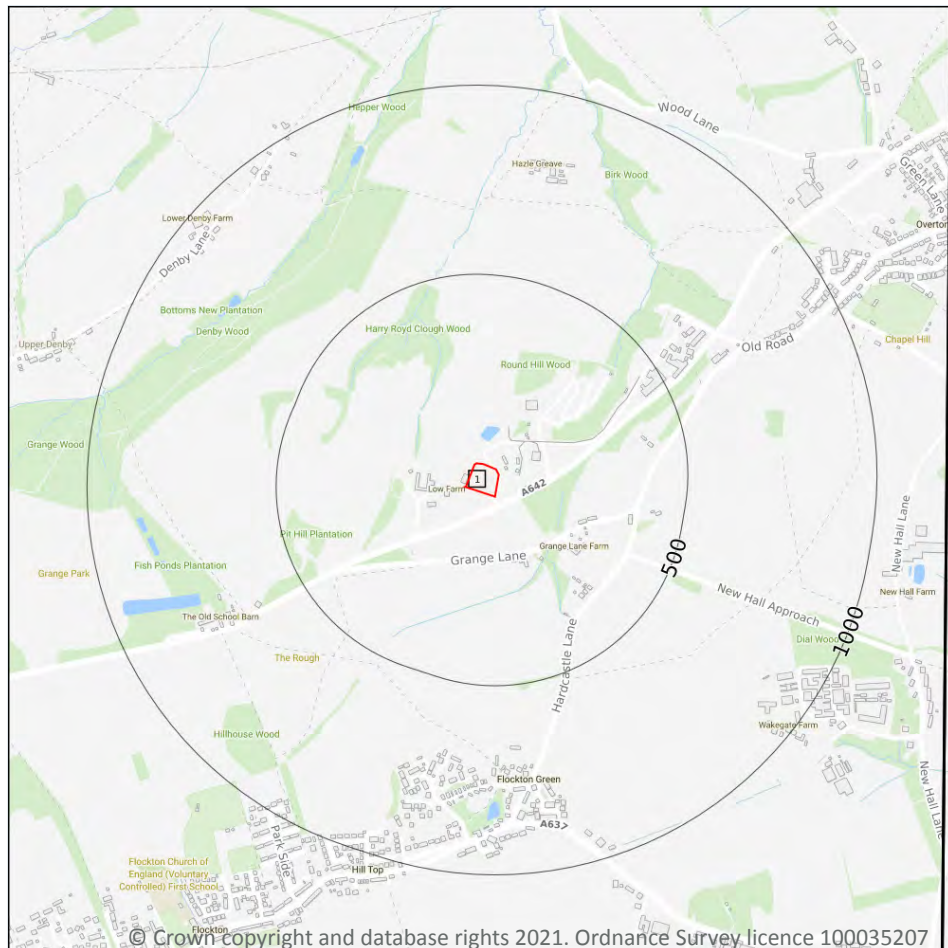


ID	Location	Category	Description
25	212m SE	ROCK	Coal seam, inferred
28	276m SE	ROCK	Coal seam, observed
29	312m N	ROCK	Coal seam, observed
33	336m N	ROCK	Coal seam, inferred
36	357m NE	ROCK	Coal seam, observed
39	367m NE	ROCK	Coal seam, inferred
42	394m SW	ROCK	Coal seam, observed
47	443m N	ROCK	Coal seam, observed
49	447m NW	ROCK	Coal seam, inferred
50	481m NW	ROCK	Coal seam, observed
51	485m W	ROCK	Coal seam, observed
53	494m N	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

☐ Geological map tile

15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

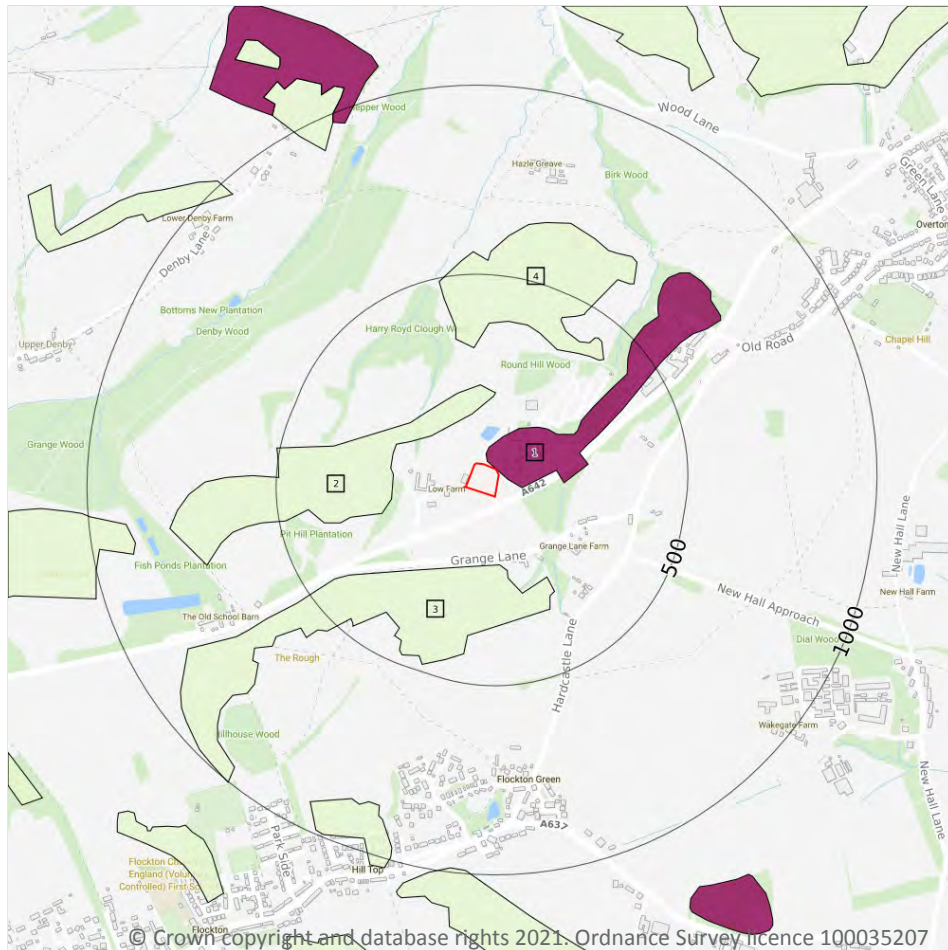
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 80**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW077_huddersfield_v4

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground



- Site Outline**
- Search buffers in metres (m)**
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

4

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 81**

ID	Location	LEX Code	Description	Rock description
1	1m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	121m NW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
3	181m S	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
4	306m N	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT



This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
1m NE	Mixed	Very High	Low

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial

15.4 Superficial geology (50k)

Records within 500m

0

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

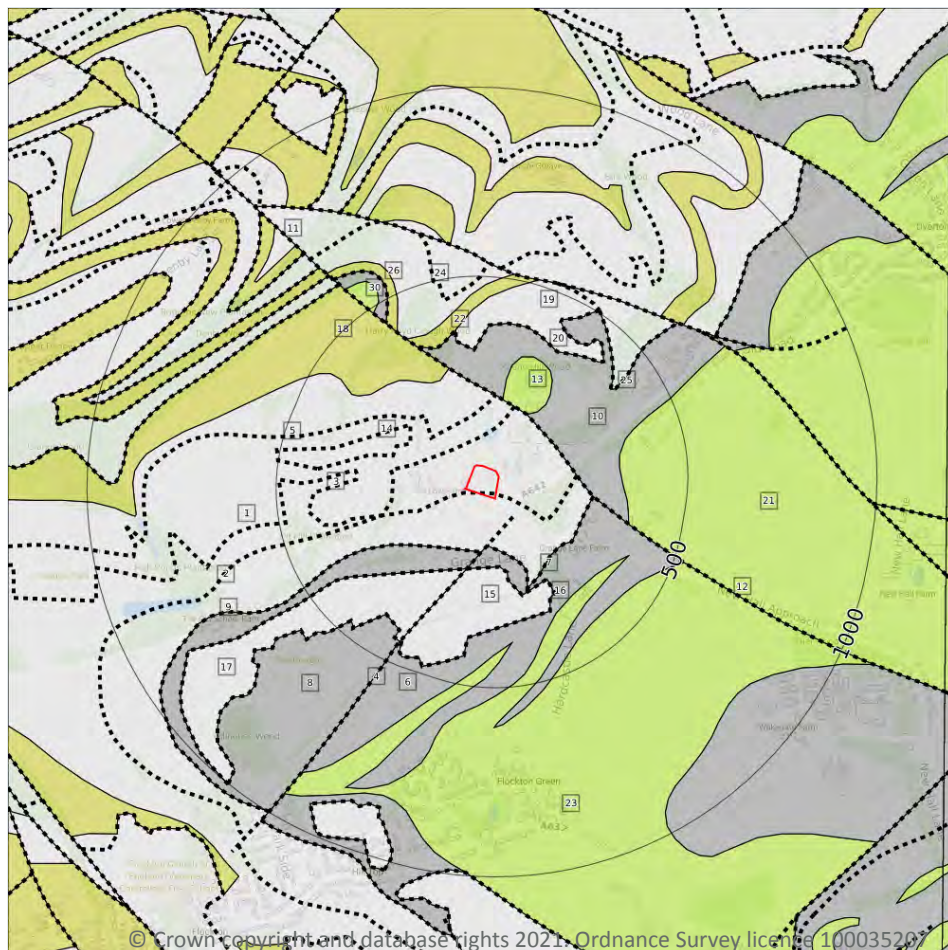
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

16

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 84**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	126m S	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
8	146m S	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	162m NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
13	171m NE	TR-SDST	THORNHILL ROCK - SANDSTONE	WESTPHALIAN
15	181m S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
17	199m S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
18	244m NW	BRSR-SDST	BIRSTALL ROCK - SANDSTONE	WESTPHALIAN
19	306m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
21	320m E	TR-SDST	THORNHILL ROCK - SANDSTONE	WESTPHALIAN
22	327m N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
23	327m SE	TR-SDST	THORNHILL ROCK - SANDSTONE	WESTPHALIAN
24	370m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
26	409m NW	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
29	446m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
30	485m NW	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	High	Low

This data is sourced from the British Geological Survey.



15.10 Bedrock faults and other linear features (50k)

Records within 500m

14

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

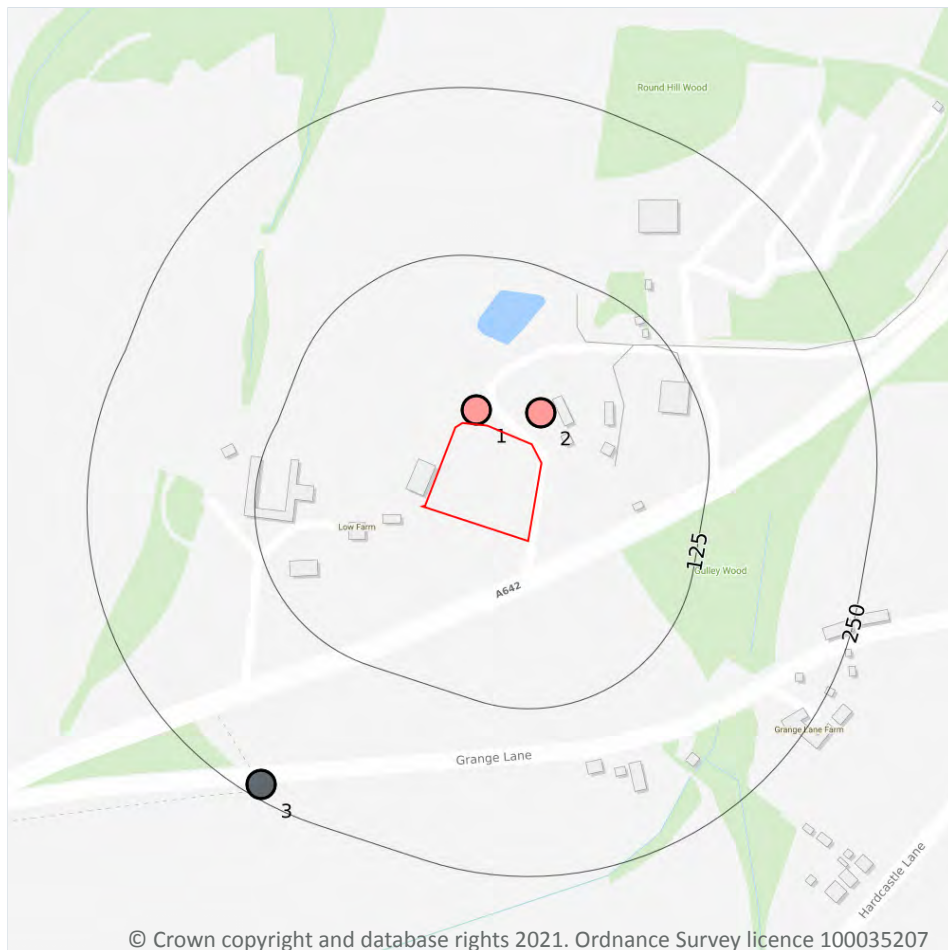
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 84**

ID	Location	Category	Description
2	On site	ROCK	Ironstone bed, inferred
3	64m NW	ROCK	Coal seam, inferred
4	68m SE	FAULT	Fault, inferred
5	121m NW	ROCK	Coal seam, inferred
7	126m S	ROCK	Coal seam, inferred
9	146m S	ROCK	Coal seam, inferred
11	162m NE	FAULT	Fault, inferred
12	170m NE	FAULT	Fault, inferred
14	180m W	ROCK	Coal seam, inferred
16	181m S	ROCK	Coal seam, inferred
20	306m N	ROCK	Coal seam, inferred
25	373m NE	ROCK	Coal seam, inferred
27	444m N	ROCK	Coal seam, inferred
28	446m NW	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

3

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 87**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	11m N	424800 416200	DENBY GRANGE (HOPE PIT) MIDDLESTOWN YORKS	167.94	N	56639
2	24m NE	424848 416198	CAPHOUSE COLLIERY NO.4 BH	84.12	N	56632

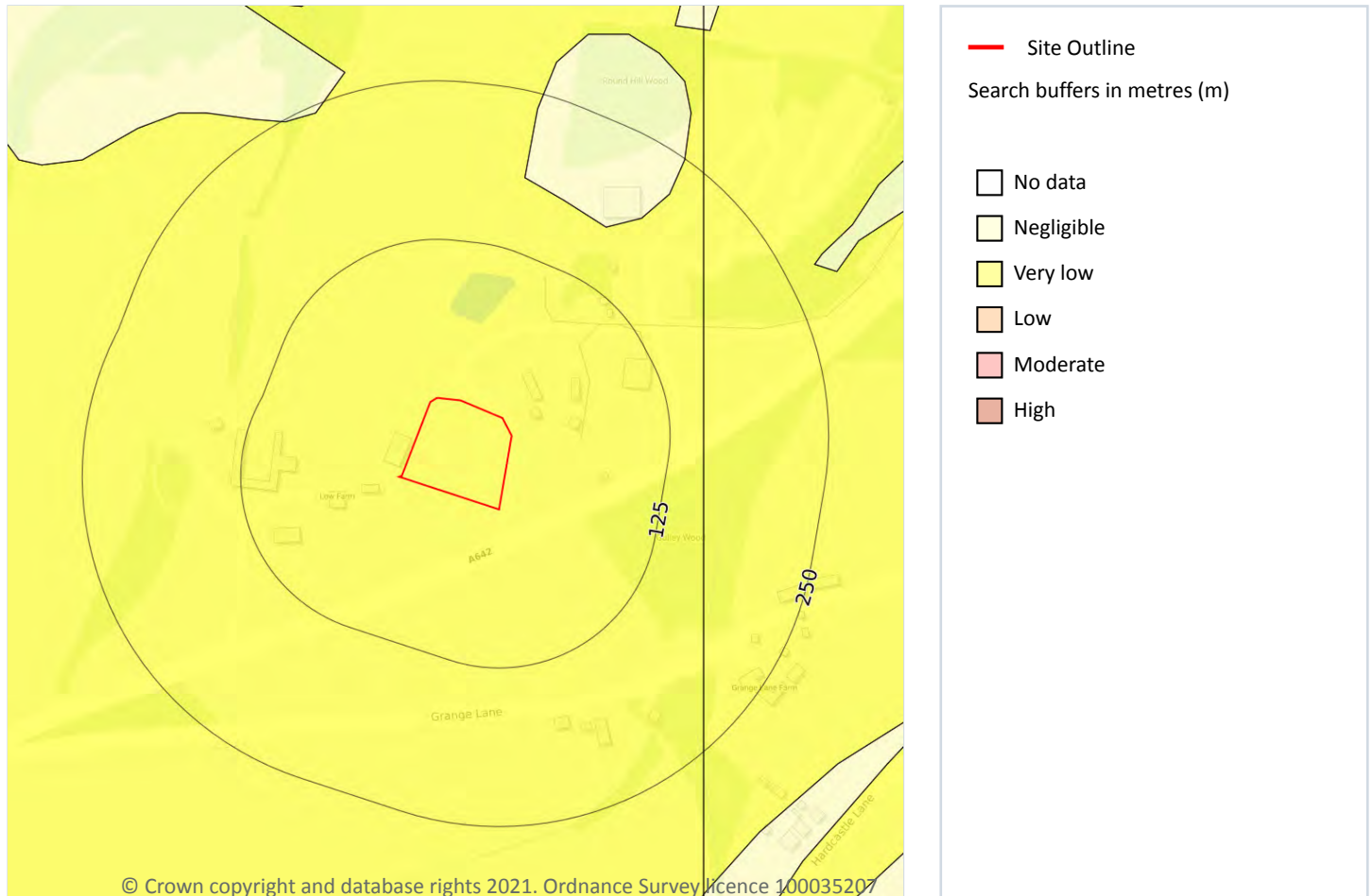


ID	Location	Grid reference	Name	Length	Confidential	Web link
3	239m SW	424640 415921	NATIONAL COAL MINING MUSEUM OVERTON 2/2A	-	Y	N/A

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

1

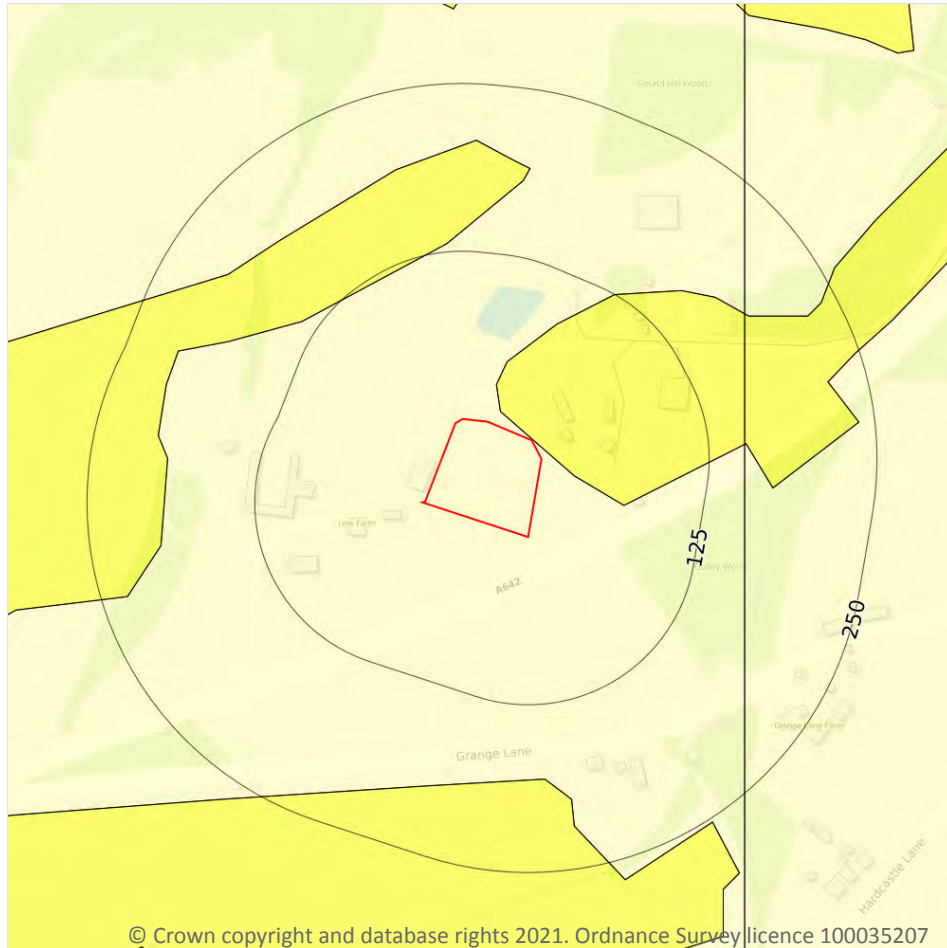
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 89**

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.2 Running sands

Records within 50m

2

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 90**

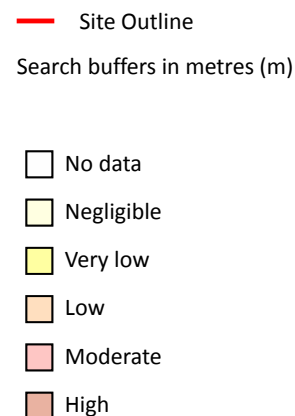
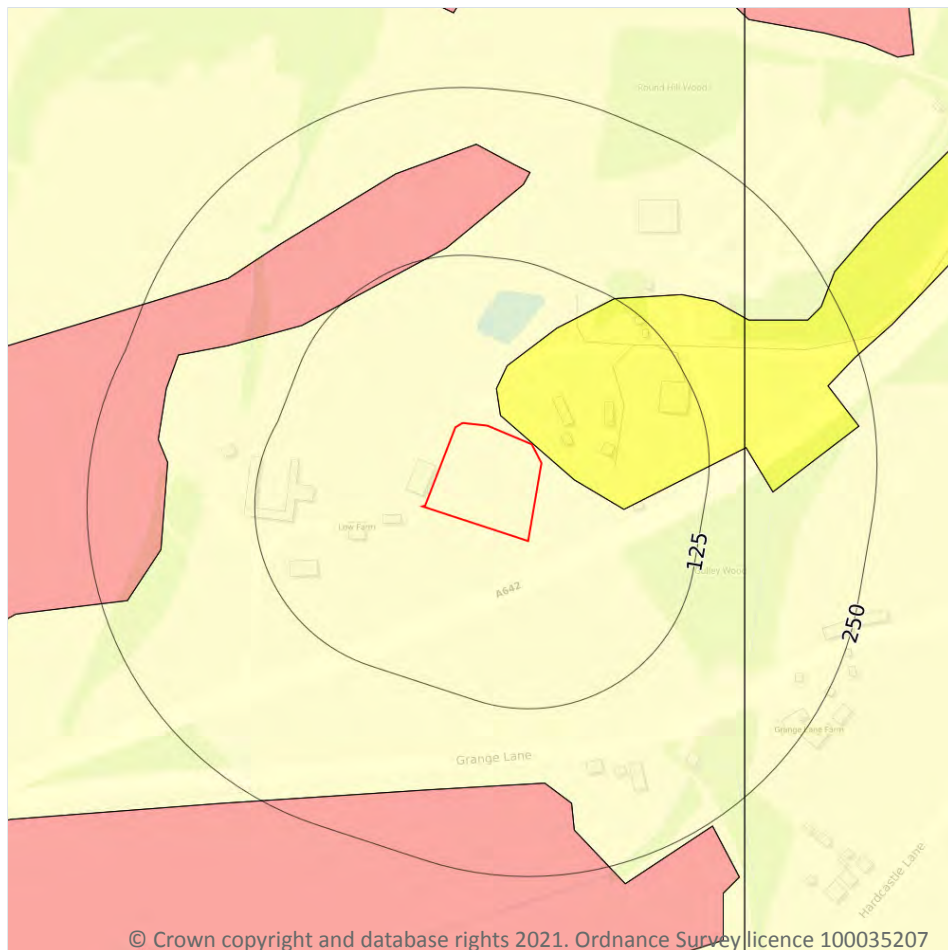
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
1m NE	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

2

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

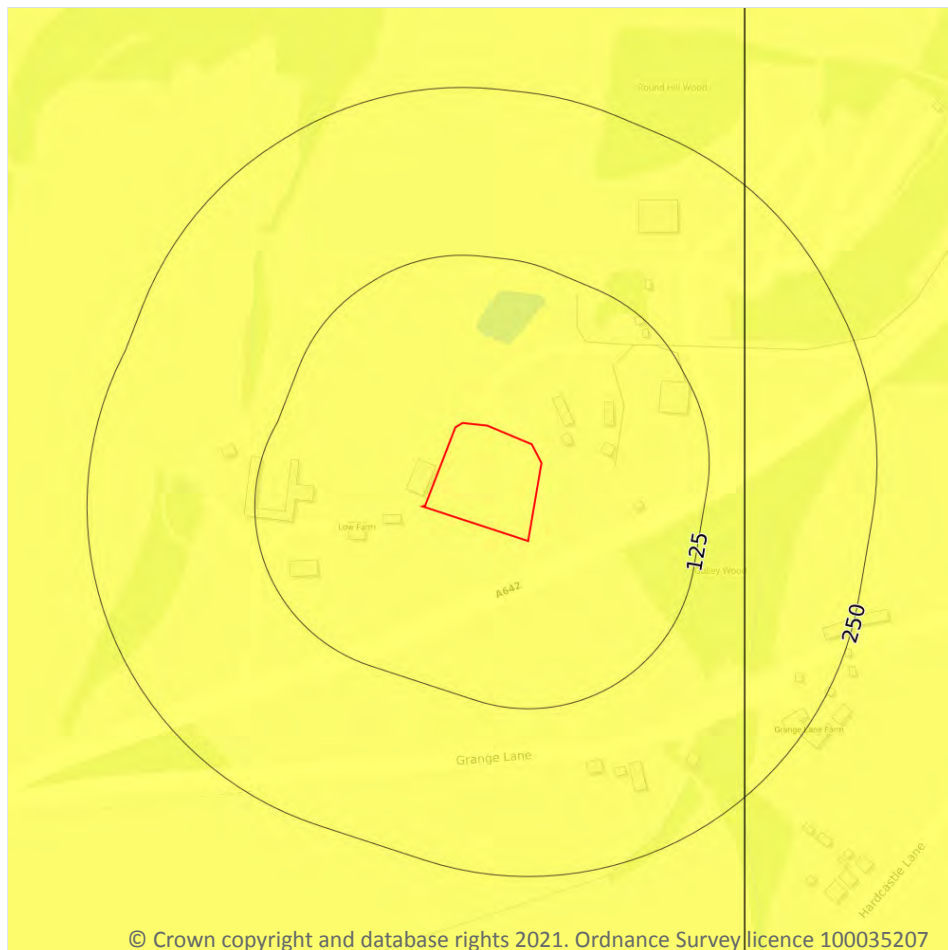
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 92**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
1m NE	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.4 Collapsible deposits

Records within 50m

1

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

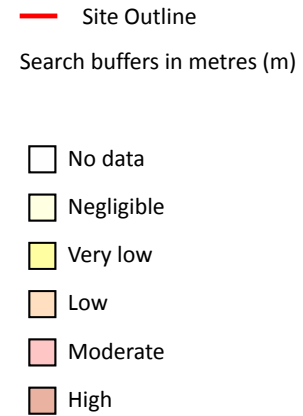
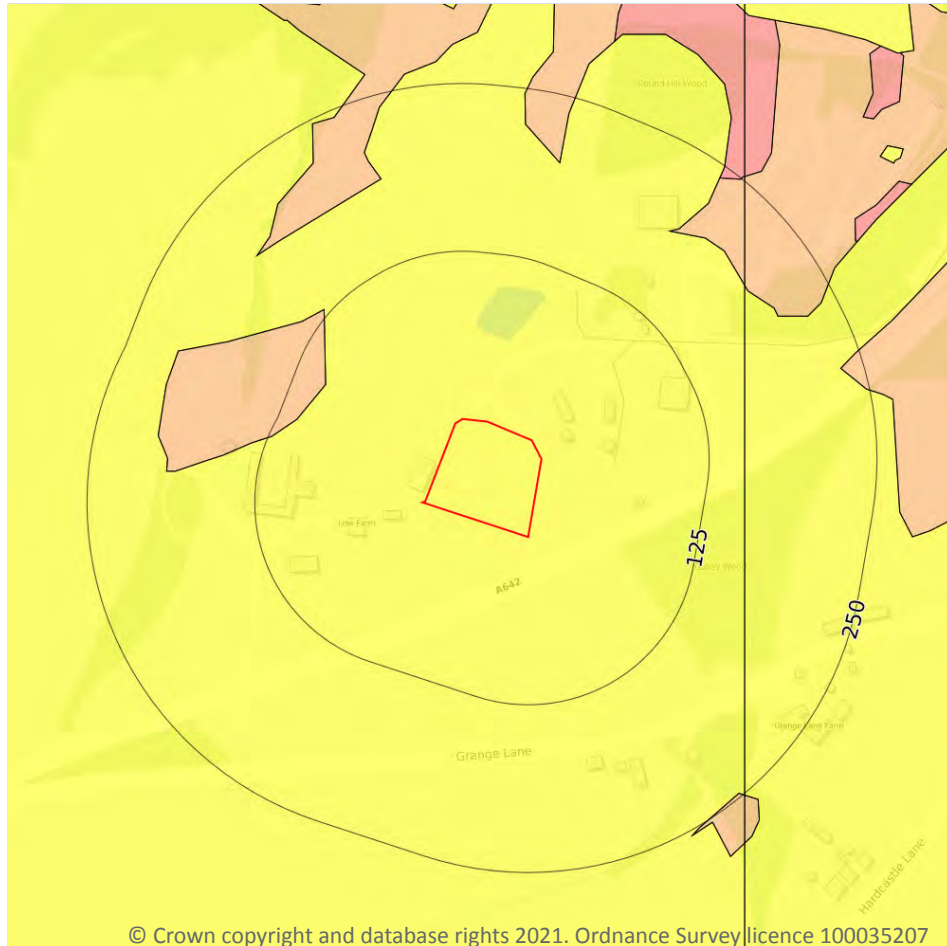
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 94**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

1

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

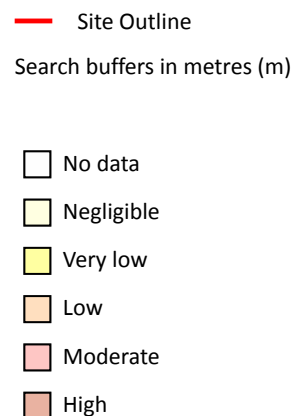
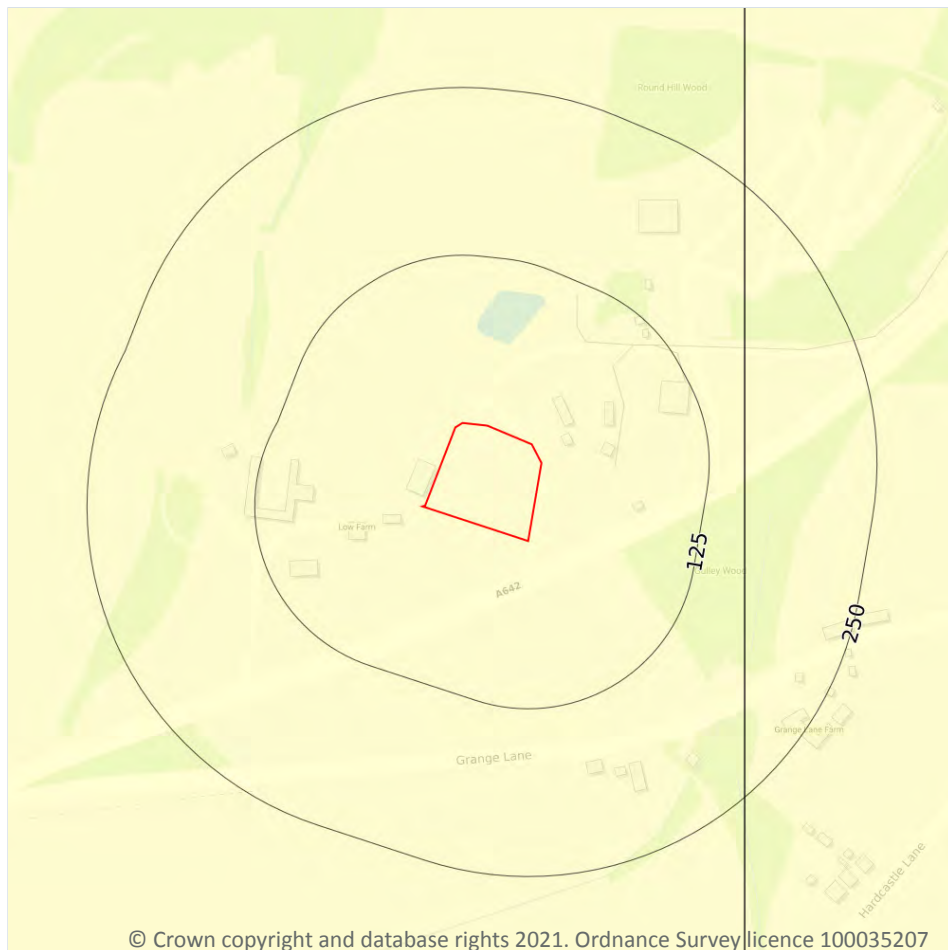
Features are displayed on the Natural ground subsidence - Landslides map on **page 95**

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

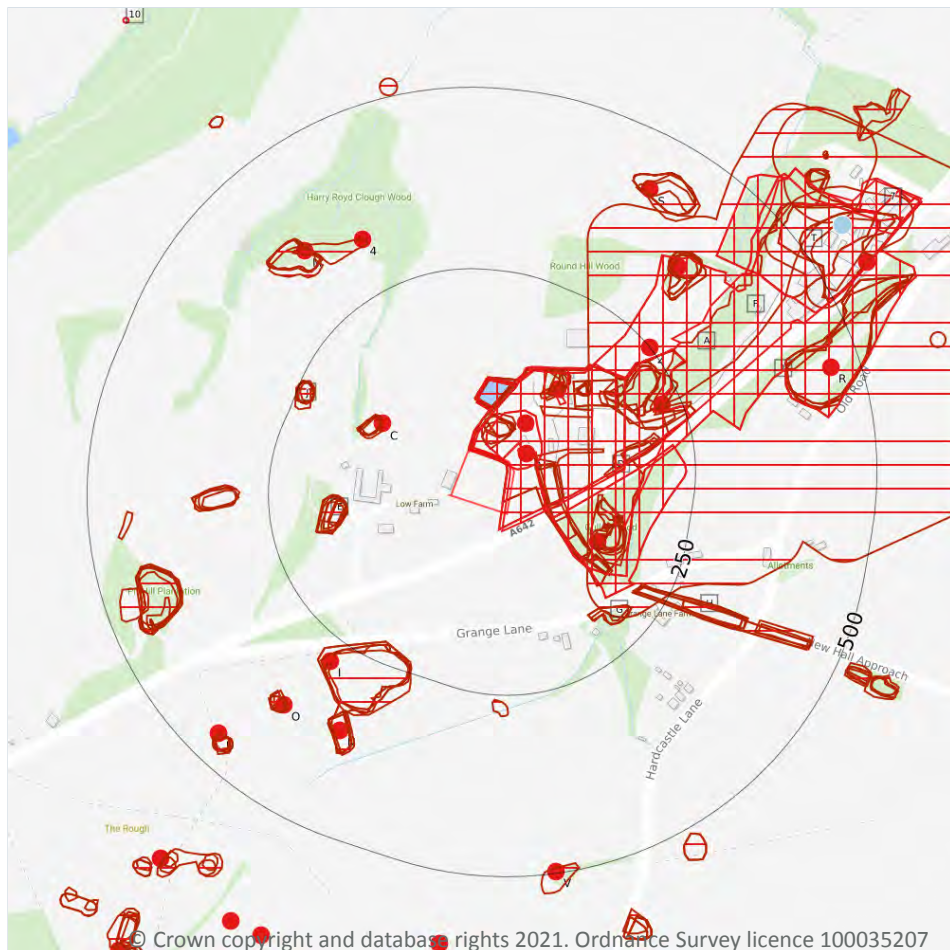
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 96**

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

17

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on **page 98**

ID	Location	Details	Description
B	25m NE	Name: Hope Pit Address: Middlestown, WAKEFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
B	57m NE	Name: Hope Pit Address: Flockton, HUDDERSFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
B	120m NE	Name: Hope Pit Address: Flockton, HUDDERSFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
C	123m W	Name: Low House Address: Overton, Middlestown, WAKEFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
B	130m E	Name: Denby Grange Collieries Address: Flockton, HUDDERSFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
B	224m NE	Name: Denby Grange Collieries Address: Flockton, HUDDERSFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
2	249m NE	Name: Denby Grange Collieries Address: Flockton, HUDDERSFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
I	281m SW	Name: Blossom Pit Address: Middlestown, WAKEFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
4	327m NW	Name: Denby Grange Collieries Pit Address: Flockton, HUDDERSFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
L	355m NE	Name: Denby Grange Collieries Pit Address: Flockton, HUDDERSFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
M	357m NW	Name: Harry Royd Clough Wood Address: Denby Grange, Flockton, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
N	358m SW	Name: Grange Lane Clay Pit Address: Flockton, HUDDERSFIELD, West Yorkshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
O	368m SW	Name: Blossom Pit Shafts Address: Flockton, HUDDERSFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
S	423m NE	Name: Denby Grange Collieries Pit Address: Flockton, HUDDERSFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
U	457m SW	Name: Blossom Pit Shafts Address: Flockton, HUDDERSFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
R	459m E	Name: Cap House Address: Caphouse, Overton, WAKEFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
V	497m S	Name: Flockton Green Pits Address: Flockton, HUDDERSFIELD, West Yorkshire Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	108
----------------------------	------------

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 98**

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Collieries	1892	1:10560
B	On site	Collieries	1938	1:10560
B	On site	Collieries	1905	1:10560
B	On site	Collieries	1938	1:10560
B	6m NE	Refuse Heap	1892	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	13m N	Refuse Heap	1905	1:10560
B	25m NE	Unspecified Heap	1948	1:10560
B	25m NE	Unspecified Heap	1938	1:10560
B	25m NE	Unspecified Heap	1938	1:10560
B	28m NE	Unspecified Heap	1951	1:10560
B	30m E	Cuttings	1938	1:10560
B	32m E	Cuttings	1948	1:10560
B	32m E	Cuttings	1892	1:10560
B	34m E	Unspecified Pit	1951	1:10560
B	37m E	Cuttings	1966	1:10560
B	56m N	Reservoir	1892	1:10560
B	61m N	Pond	1993	1:10000
B	61m N	Pond	1982	1:10000
B	61m N	Pond	1966	1:10560
B	61m N	Reservoir	1938	1:10560
B	62m E	Collieries	1905	1:10560
B	62m E	Cuttings	1905	1:10560
B	62m E	Cuttings	1948	1:10560
B	62m N	Reservoir	1951	1:10560
B	62m N	Reservoir	1905	1:10560
B	62m N	Reservoir	1948	1:10560
B	66m E	Cuttings	1892	1:10560
B	80m NE	Refuse Heap	1905	1:10560
B	98m NE	Refuse Heap	1905	1:10560
B	100m NE	Refuse Heap	1892	1:10560
1	103m E	Collieries	1955	1:10560
B	104m NE	Unspecified Heap	1938	1:10560
B	104m NE	Unspecified Heap	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	108m NE	Unspecified Heap	1966	1:10560
B	118m E	Refuse Heap	1948	1:10560
B	119m NE	Ponds	1993	1:10000
B	119m NE	Ponds	1982	1:10000
B	120m E	Unspecified Ground Workings	1905	1:10560
B	121m E	Refuse Heap	1905	1:10560
C	121m W	Unspecified Pit	1892	1:10560
B	123m E	Refuse Heap	1892	1:10560
B	124m E	Refuse Heap	1938	1:10560
B	124m E	Refuse Heap	1938	1:10560
D	125m E	Unspecified Pit	1951	1:10560
C	125m W	Unspecified Pit	1951	1:10560
C	125m W	Unspecified Pit	1905	1:10560
C	125m W	Unspecified Pit	1948	1:10560
C	127m W	Unspecified Pit	1938	1:10560
C	127m W	Unspecified Pit	1938	1:10560
B	127m E	Refuse Heap	1951	1:10560
B	131m SE	Cuttings	1905	1:10560
B	131m SE	Cuttings	1948	1:10560
B	133m E	Filter Tanks	1938	1:10560
B	133m E	Filter Tanks	1938	1:10560
B	134m E	Filter Tanks	1948	1:10560
B	135m NE	Unspecified Pit	1938	1:10560
B	135m NE	Unspecified Pit	1938	1:10560
B	136m SE	Unspecified Pit	1951	1:10560
B	136m NE	Unspecified Pit	1948	1:10560
B	137m E	Filter Tanks	1951	1:10560
B	137m NE	Unspecified Pit	1951	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
D	138m E	Unspecified Pit	1905	1:10560
B	138m E	Unspecified Heap	1982	1:10000
B	138m E	Unspecified Heap	1966	1:10560
E	143m W	Reservoir	1951	1:10560
E	143m W	Pond	1982	1:10000
E	143m W	Pond	1966	1:10560
E	143m W	Pond	1993	1:10000
E	143m W	Reservoir	1905	1:10560
E	143m W	Reservoir	1938	1:10560
E	144m W	Reservoir	1948	1:10560
B	146m E	Filter Tanks	1938	1:10560
B	146m E	Filter Tanks	1938	1:10560
B	147m E	Filter Tanks	1948	1:10560
E	148m W	Reservoir	1892	1:10560
D	150m E	Cuttings	1948	1:10560
B	150m E	Filter Tanks	1951	1:10560
B	151m NE	Unspecified Heap	1948	1:10560
D	155m E	Unspecified Quarry	1955	1:10560
B	158m NE	Refuse Heap	1905	1:10560
B	159m NE	Refuse Heap	1892	1:10560
B	160m NE	Unspecified Pit	1951	1:10560
B	172m NE	Unspecified Heap	1938	1:10560
B	172m NE	Unspecified Heap	1938	1:10560
G	179m SE	Unspecified Ground Workings	1938	1:10560
G	179m SE	Unspecified Ground Workings	1938	1:10560
B	179m NE	Unspecified Heap	1973	1:10000
B	179m NE	Unspecified Heap	1955	1:10560
B	179m NE	Unspecified Heap	1983	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
B	179m NE	Unspecified Heap	1966	1:10560
G	185m SE	Unspecified Ground Workings	1948	1:10560
H	204m SE	Cuttings	1905	1:10560
H	205m SE	Cuttings	1938	1:10560
H	206m SE	Cuttings	1948	1:10560
F	207m NE	Refuse Heap	1983	1:10000
H	207m SE	Cuttings	1955	1:10560
I	220m SW	Refuse Heap	1905	1:10560
I	220m SW	Unspecified Heaps	1948	1:10560
I	224m S	Unspecified Ground Workings	1951	1:10560
J	225m W	Refuse Heap	1892	1:10560
J	225m W	Unspecified Heap	1951	1:10560
I	225m SW	Unspecified Ground Workings	1938	1:10560
I	225m SW	Unspecified Ground Workings	1938	1:10560
J	226m W	Refuse Heap	1905	1:10560
J	226m W	Unspecified Heap	1948	1:10560
J	226m W	Unspecified Heap	1938	1:10560
J	226m W	Unspecified Heap	1938	1:10560
I	231m S	Refuse Heap	1892	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

46

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining, ground workings and natural cavities map on **page 98**

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Collieries	1892	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	On site	Collieries	1905	1:10560
B	On site	Unspecified Mine	1993	1:10000
B	On site	Unspecified Mine	1982	1:10000
B	On site	Unspecified Mine	1966	1:10560
B	19m NE	Unspecified Shafts	1905	1:10560
B	51m NE	Unspecified Shafts	1905	1:10560
B	51m NE	Unspecified Old Shaft	1948	1:10560
B	52m NE	Unspecified Old Shaft	1951	1:10560
B	62m E	Collieries	1905	1:10560
B	106m NE	Unspecified Shafts	1905	1:10560
B	113m NE	Unspecified Shaft	1948	1:10560
B	113m NE	Unspecified Shaft	1951	1:10560
B	127m E	Unspecified Old Shaft	1905	1:10560
F	151m E	Unspecified Mine	1983	1:10000
I	275m SW	Unspecified Old Shaft	1905	1:10560
T	403m NE	Unspecified Mine	1966	1:10560
T	403m NE	Unspecified Mine	1973	1:10000
S	419m NE	Unspecified Old Shaft	1905	1:10560
S	422m NE	Unspecified Disused Shaft	1992	1:10000
S	422m NE	Unspecified Disused Shaft	1983	1:10000
S	422m NE	Unspecified Disused Shaft	1966	1:10560
S	422m NE	Unspecified Disused Shaft	1973	1:10000
7	595m NE	Unspecified Mine	1992	1:10000
-	672m N	Unspecified Old Shaft	1948	1:10560
-	681m N	Unspecified Old Shaft	1951	1:10560
-	683m N	Unspecified Old Shaft	1905	1:10560
-	686m N	Unspecified Disused Shaft	1992	1:10000
-	686m N	Unspecified Disused Shaft	1983	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
-	686m N	Unspecified Disused Shaft	1966	1:10560
-	686m N	Unspecified Disused Shaft	1973	1:10000
-	747m E	Tunnel	1892	1:10560
-	750m E	Tunnel	1966	1:10560
-	750m E	Tunnel	1973	1:10000
-	753m E	Tunnel	1905	1:10560
-	755m E	Tunnel	1948	1:10560
10	756m NW	Unspecified Old Shaft	1905	1:10560
-	797m N	Unspecified Old Shaft	1905	1:10560
-	797m N	Unspecified Old Shaft	1948	1:10560
-	800m N	Unspecified Disused Shaft	1992	1:10000
-	800m N	Unspecified Disused Shaft	1983	1:10000
-	800m N	Unspecified Disused Shaft	1966	1:10560
-	800m N	Unspecified Disused Shaft	1973	1:10000
-	802m N	Unspecified Old Shaft	1951	1:10560
-	882m NW	Old Coal Shaft	1905	1:10560
-	955m E	Unspecified Old Shaft	1905	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.



18.6 Non-coal mining

Records within 1000m

0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

1

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

Features are displayed on the Mining, ground workings and natural cavities map on **page 98**

ID	Location	Mine Address	Mineral	Data source	Publisher
T	563m NE	Huddersfield, West Yorkshire	Unknown	-	-

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site

1

Areas which could be affected by past, current or future coal mining.

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.



18.10 Brine areas

Records on site	0
-----------------	---

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

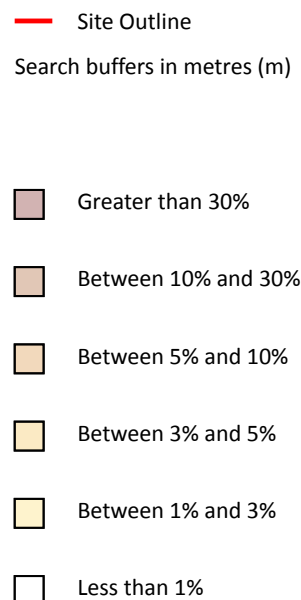
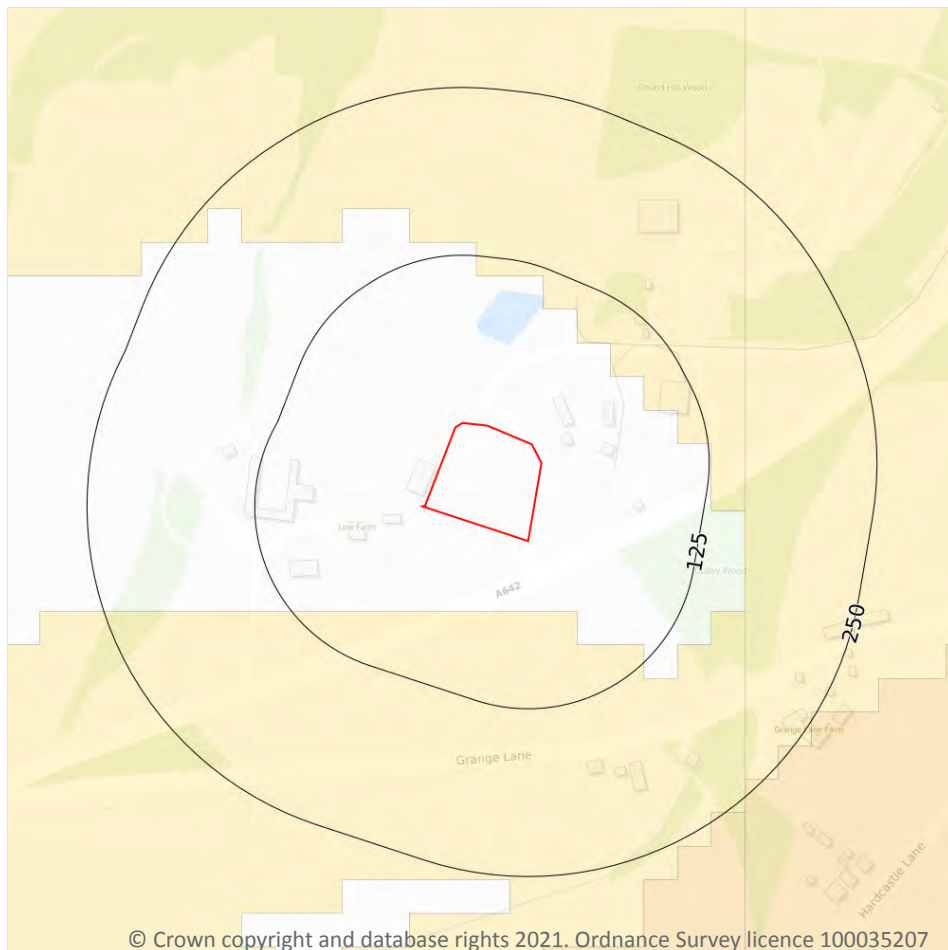
18.13 Clay mining

Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 111**

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None**

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m**1**

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m**0**

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m**0**

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)**
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

4

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 113**

Location	Land Use	Year of mapping	Mapping scale
30m E	Railway Sidings	1905	10560
52m NE	Mineral Railway Sidings	1892	10560
57m NE	Mineral Railway Sidings	1938	10560
246m E	Mineral Railway Sidings	1948	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.



21.6 Historical railways

Records within 250m

1

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

Features are displayed on the Railway infrastructure and projects map on **page 113**

Location	Description
50m E	Abandoned

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

8

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

Features are displayed on the Railway infrastructure and projects map on **page 113**

Location	Name	Type
54m E	National Coal Mining Museum	Preserved
55m E	Not given	Narrow Gauge
86m NE	Not given	Narrow Gauge
87m NE	National Coal Mining Museum	Preserved
106m NE	Not given	Narrow Gauge
117m NE	Not given	Narrow Gauge
117m NE	Not given	Narrow Gauge
120m NE	National Coal Mining Museum	Preserved

This data is sourced from Ordnance Survey and OpenStreetMap.



21.8 Crossrail 1

Records within 500m**0**

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m**0**

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m**0**

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.

