



**Haigh Huddleston & Associates**

Civil & Structural Engineering Consultants

Unit 4, Midgley Business Park, Bar Lane, Midgley WF4 4JJ

t 01924 574074 e [info@haighhuddleston.co.uk](mailto:info@haighhuddleston.co.uk)

# **Phase 1 Geo-environmental Report**

**ON**

**PROPOSED DEVELOPMENT**

**AT**

**ROUND INGS ROAD, OUTLANE**

**FOR**

**Mrs P BARBER**

**Aug' 2025**

**E25/8341/R001**

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## 1.0 EXECUTIVE SUMMARY

SITE LOCATION	South of 12 Round Ings Road, Outlane
SITE DESCRIPTION	Slightly sloping overgrown patch of land with mature trees in east and west of site
SITE PROPOSALS	Residential Property
SITE HISTORY	<p>On Site: A quarry was shown on site in 1854 and infilled by 1908. No further development on site.</p> <p>Off Site: Baptist meeting house constructed north of site in 1892 and now a residential property. M62 shown 150m north of the site from 1978.</p>
GEOLOGY/MINING	<p>Geological records indicate the majority of the site to be infilled ground to the former quarry on site. The remainder of the site is underlain by Huddersfield White Rock consisting of Sandstone.</p> <p>The site lies outside development high risk areas with respect to coal mining.</p> <p>No fault lines indicated in vicinity of the site.</p>
ENVIRONMENT	<p><b>RADON:</b> The site is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level.</p> <p><b>LANDFILL:</b> No historical landfill sites recorded within 250m of the site, however the former quarry on site was infilled over 100 years ago with unknown material.</p> <p><b>FLOOD RISK:</b> The site is not in an Environment Agency defined Flood Zone or at risk from flooding from rivers or the sea.</p> <p><b>GROUNDWATER:</b> The bedrock underlying the site is classified as a Secondary A Aquifer.</p> <p>There are no water abstraction licenses recorded within 250m of the site.</p> <p>The site is not located in a Source Protection Zone..</p> <p>There are no recorded licensed discharge consents within 250m of the site.</p> <p>There are no pollution incidents to controlled waters recorded within 250m of the site.</p> <p>The nearest recorded surface water feature to the site is an un-named watercourse 10m west of the site, located on the far side of Round Ings Road.</p>
GEOTECHNICAL ASSESSMENT	Dependent on the depth of infill material on site and its relation to the proposed property it is likely that a piled foundation would be required.
CHEMICAL ASSESSMENT	<p>Potential contamination from infill to former quarry</p> <p>Potential gas generation from infill material to former quarry.</p>
PROPOSED INTRUSIVE INVESTIGATION	<ul style="list-style-type: none"> <li>• Rotary boreholes to determine depth of former quarry and allow standpipes to be installed.</li> <li>• Trial pits to locate any high wall features to former quarry on site.</li> <li>• Chemical testing</li> <li>• Geotechnical Testing</li> <li>• Minimum six rounds of gas monitoring</li> </ul>

## **2.0 INTRODUCTION**

2.1 This report is commissioned to examine the risk of contamination for the above site in line with the recommendations of Part II of the Environmental Protection Act 1990 PPS 23. It is based on information provided by both the client and statutory bodies in both written and verbal format. It is assumed that all information given is correct and factual at the time of writing this report. No liabilities can be accepted for information provided by third parties and subsequently found to be in error.

## **3.0 THE SITE**

3.1 The site is located to the south of 12 Round Ings Road, Outlane and is situated around Ordnance Survey grid reference 407996, 417190. A site location plan is included in Appendix A.

3.2 The site is a roughly rectangular area of untended land, with the shorter boundary fronting onto Round Ings Road. To the north are residential properties, to the south is a stone garage and storage area and to the east is open field. To the west is Round Ings Road with a wooded area beyond. The area of the development is approximately 0.07ha.

3.3 The site is overgrown with shrubs and mature tree growth noted adjacent the western and eastern boundaries. The site is bounded by a timber rail fence to the south, a dilapidated dry stone wall on the west, and a mix of stone wall and hedge to the north and eastern boundaries.

3.4 The site falls from east to west and from south to north. The site is retained above No. 12 Round Ings Road to the north of the site. There was no topographical survey available at the time of writing the report.

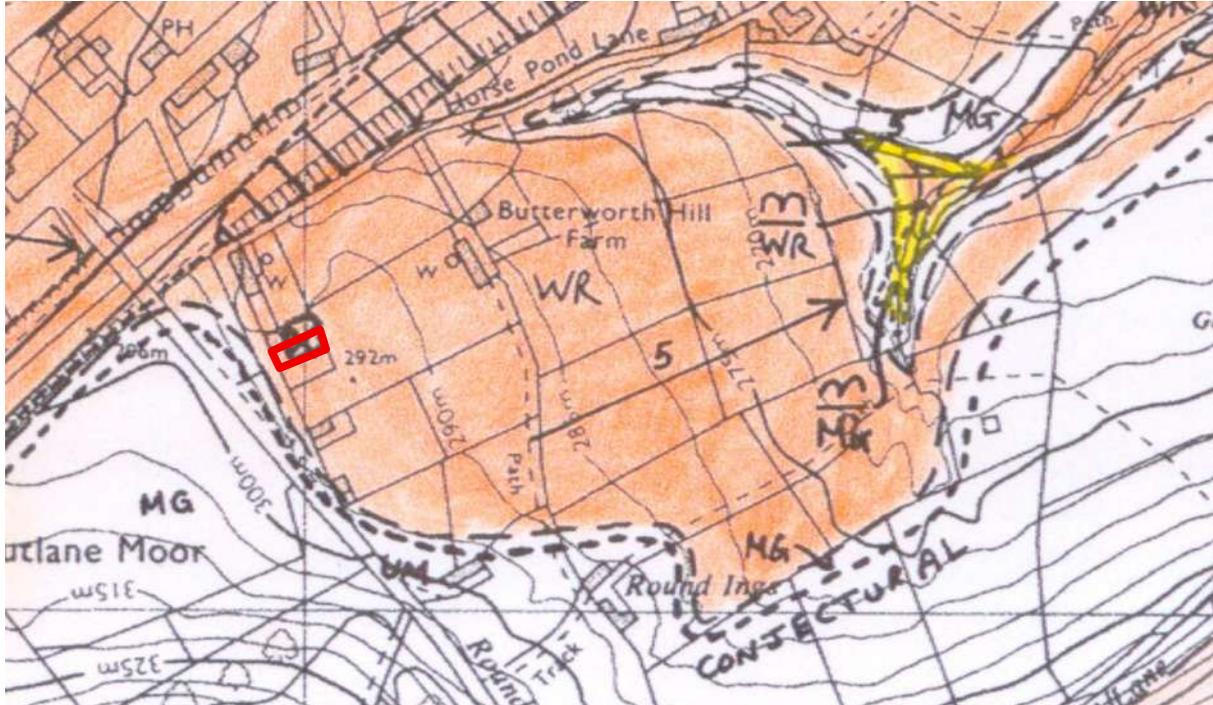
#### 4.0 SITE HISTORY

A number of historical Ordnance Survey plans have been consulted and are included in Appendix C. Below is a brief description outlining the significant developments that may affect future construction of the site.

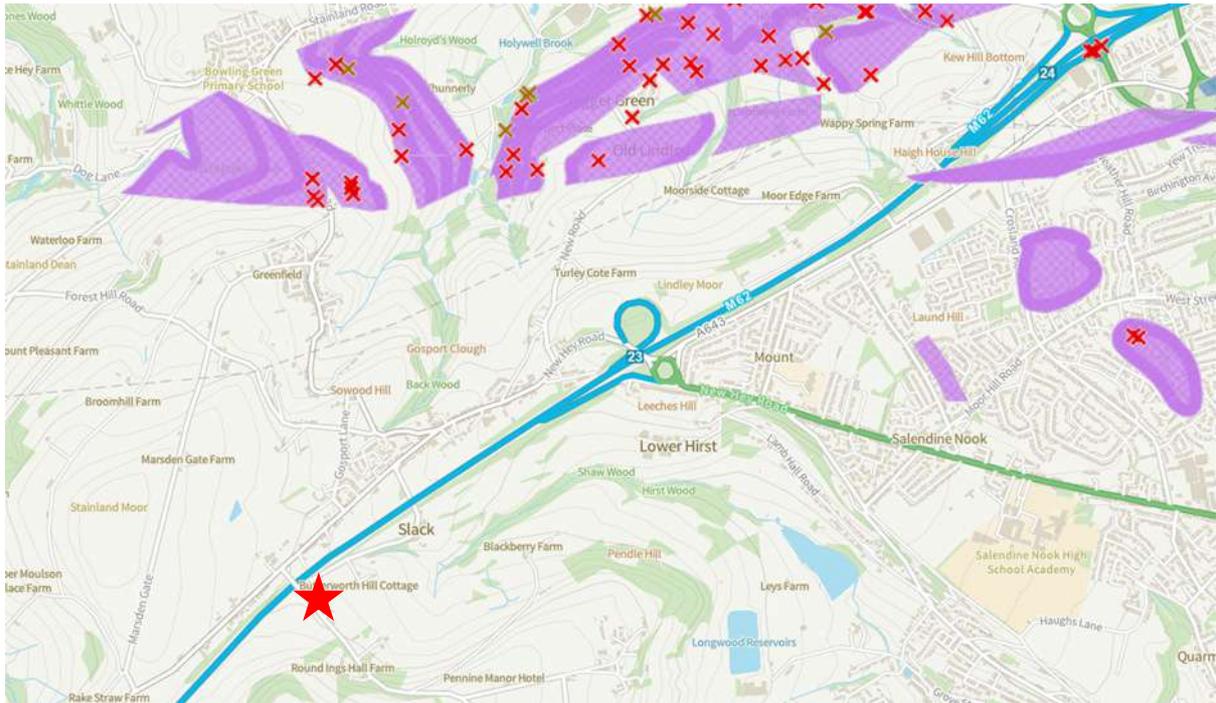
<b>Date</b>	<b>Historical uses on site</b>	<b>Historical findings within 100m perimeter of the site</b>	<b>Historical findings further than 100m perimeter of the site</b>
1854	i) Sandstone Quarry indicated on site. ii) Round Ings Road to western boundary.	i) Open fields within 100m of the site.	i) No significant features within 500m of the site.
1892	i) The on-site features are similar to the previous sheet.	i) Baptist meeting house indicated immediately north of site.	i) Well indicated 150m east of site.
1908-1967	i) Quarry no longer shown on site.	i) Well shown 75m north of site.	i) No significant developments within 500m of the site.
1978-2010	i) The on-site features are similar to the previous sheet.	i) No significant developments within 100m of the site.	i) M62 shown running east to west 150m north of site.
2025	i) The on-site features are similar to the previous sheet.	i) Well no longer indicated 75m north of the site.	i) Well no longer shown 150m east of the site.

## 5.0 SITE GEOLOGY & MINING/QUARRYING

5.1 The BGS Geological Map of Great Britain SE01NE (Stainland) at 1:10,000 has been consulted and we would report as follows:-



- 5.2 The majority of the site is shown as being infilled ground to the former sandstone quarry on site.
- 5.3 No superficial geology is shown to overlie the site.
- 5.4 The site is shown to be underlain by Huddersfield White Rock consisting of Sandstone.
- 5.5 There are no fault lines recorded in the vicinity of the site.
- 5.6 An inferred coal seam is indicated 21m south west of the site, but this is not indicated on the Coal Authority records below.



- 5.8 The Coal Authority Map Viewer indicates the site lies outside development high risk areas. There are no coal outcrops or mine entries recorded in the immediate vicinity of the site.
- 5.9 There are no known coal mine entries within, or within 20 metres of, the boundary of the property.
- 5.10 The nearest available BGS borehole record is 104m north west of the site and shows sandstone with vertical fractures to a depth of predominantly shale with some sandstone bands to a depth of 11.3m.

## **6.0 ENVIRONMENTAL CONSIDERATIONS**

### **6.1 Radon**

The site is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level.

No Radon Protective Measures are necessary for the development. However, a number of warranty providers consider it good practice to provide basic radon protective measures as standard and they should be consulted at an early stage to confirm their requirements.

### **6.2 Landfill Sites**

There are no recorded historical landfills within 250m of the site. However, the former quarry indicated on site has been historically infilled with unknown material over 100 years ago.

### **6.3 Flood Risk**

The site is not located in an Environment Agency defined Flood Zone and is not considered at risk from flooding from rivers or the sea.

### **6.4 Groundwater**

The bedrock underlying the site is classed as a Secondary A Aquifer. These are 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.

There are no water abstraction licences recorded within 250m of the site.

There are no recorded licensed discharge consents within 250m of the site.

There are no recorded pollution incidents in controlled waters within 250m of the site.

The site is not located in a Source Protection Zone.

The nearest recorded surface water feature to the site is an un-named watercourse located 10m south west of the site, on the far side of Round Ings Road. This is an inland river not influenced by tidal action.

## 7.0 **PRELIMINARY CONCEPTUAL SITE MODEL**

- 7.1 The initial stage in assessing the risks posed from contaminated land during the redevelopment of a site is to prepare a conceptual model. A generalised conceptual model can be developed highlighting the main pollutant linkages through a contaminant ► pathway ► receptor model for a residential development. In order to prepare the conceptual model for a particular site the following parameters need to be reviewed as discussed below.
- 7.2 Contamination of existing land can be caused by a number of factors, including:-
- i) Possible historical/current industrial activities.
  - ii) Disposal of waste materials.
  - iii) Storage of materials.
  - iv) A number of natural processes can also lead to hazardous gases and elevated heavy metals.
- 7.3 Potential pathways can include ground and surface water, permeable strata, existing services providing a conduit and voided ground. Potential receptors can include human health, ecosystems, controlled waters and building structures. There are a number of ways that a receptor can be exposed to the contaminant these include, inhalation, direct contact, ingestion, dermal contact and uptake.
- 7.4 The site itself was initially quarried and infilled by 1908. It has remained undeveloped since then, with little development immediately adjacent the site. There is therefore the risk of contamination from the following sources:
- i) Potential contaminated material within infilled quarry on site.
  - ii) Possible ground gas generation within infill material to former quarry.
- There is therefore considered to be a low risk of ground contamination present.
- 7.5 Considering the proposed residential end use, there will be two possible human receptor groups exposed to the existing onsite contamination:-
- a) Site operatives during development.
  - b) End users, future site residents (the critical receptor is a 6 year old female).

7.6 Human receptors may be exposed to site contamination by a number of possible pathways. These pathways are summarised in Table 1 below.

**Table 1- Potential Human Exposure Pathways**

<u>Human Exposure Pathway</u>	<u>Site Visitors</u>	<u>Construction Workers</u>
<b>Soil Ingestion</b>	YES	YES
<b>Consumption of Home Grown Vegetables</b>	YES	NO
<b>Dermal Contact</b>	YES	YES
<b>Dust Inhalation</b>	YES	YES
<b>Gases/Vapours</b>	YES	NO

7.7 The construction workers will come into contact with any contaminated soil to a far greater extent than future residents. The exposure pathways are generally through dermal contact and indirect ingestion. However their exposure will be for a limited time and the provision and correct use of personnel protective equipment and adequate welfare facilities during construction should restrict their risks to acceptable levels.

7.8 The risk of pollution to controlled waters by existing contamination is considered low. There are no historical contaminative uses of the site recorded.

7.9 No specific areas of ecological importance have been identified in the initial desk top study. Therefore the site is considered to be in a low risk environmental setting. The potential for phototoxic materials to exist at shallow depth should be considered, these could pose a potential risk to new planting and soft landscaping areas within the proposed development.

7.10 The presence of elevated sulphates and hydrocarbons could affect the long term integrity of buried concrete structures, including foundations and drainage pipes. Plastic water supply pipes can also be damaged by the presence of hydrocarbon contamination.

## **8.0 CONCLUSIONS**

- 8.1 The site itself was originally a sandstone quarry which was infilled by 1908. Since then, there has been relatively little development of the adjacent land. However, there is a risk of contamination within the infill material to the former quarry and the possibility of ground gas generation from any organic infill materials. There is therefore considered to be a low risk to the site from gas migration and a low risk of ground contamination present.
- 8.2 Considering the above, we would recommend a Stage II Ground Investigation is required to determine the presence of any shallow contamination on site and to establish the nature of the founding strata for the proposed development. The investigation works will help determine the most appropriate foundations for the property and identify any high wall features from the former quarry.
- 8.3 Rotary boreholes should be undertaken on site to determine the depth and extent of the former quarry on site. It is recommended a minimum of three monitoring standpipes are established on site. A minimum of six rounds of gas testing should be undertaken to determine the gas regime for the site.
- 8.4 In addition to the rotary boreholes, trial pits should be undertaken on site to allow samples to be taken of the natural and infill material on site as well as determining the extent of the former quarry and identify the location of any high wall features. As the site is shown to overlie sandstone bedrock, consideration should be given to infiltration testing to determine if soakaways would be a suitable form of surface water disposal.
- 8.5 Samples should be taken from any suspected areas of contamination and tested for metals, metalloids, EPA 16 PAHS and asbestos.
- 8.6 Samples of any clays encountered should be submitted for geotechnical analysis to determine the volume change potential and effect it will have on the proposed foundations.
- 8.7 If any further contamination is found, a site remediation report should outline the most effective method of dealing with the contamination and any validation requirements.

Prepared by

M. Dean. BSc (Hons) HND

Checked by

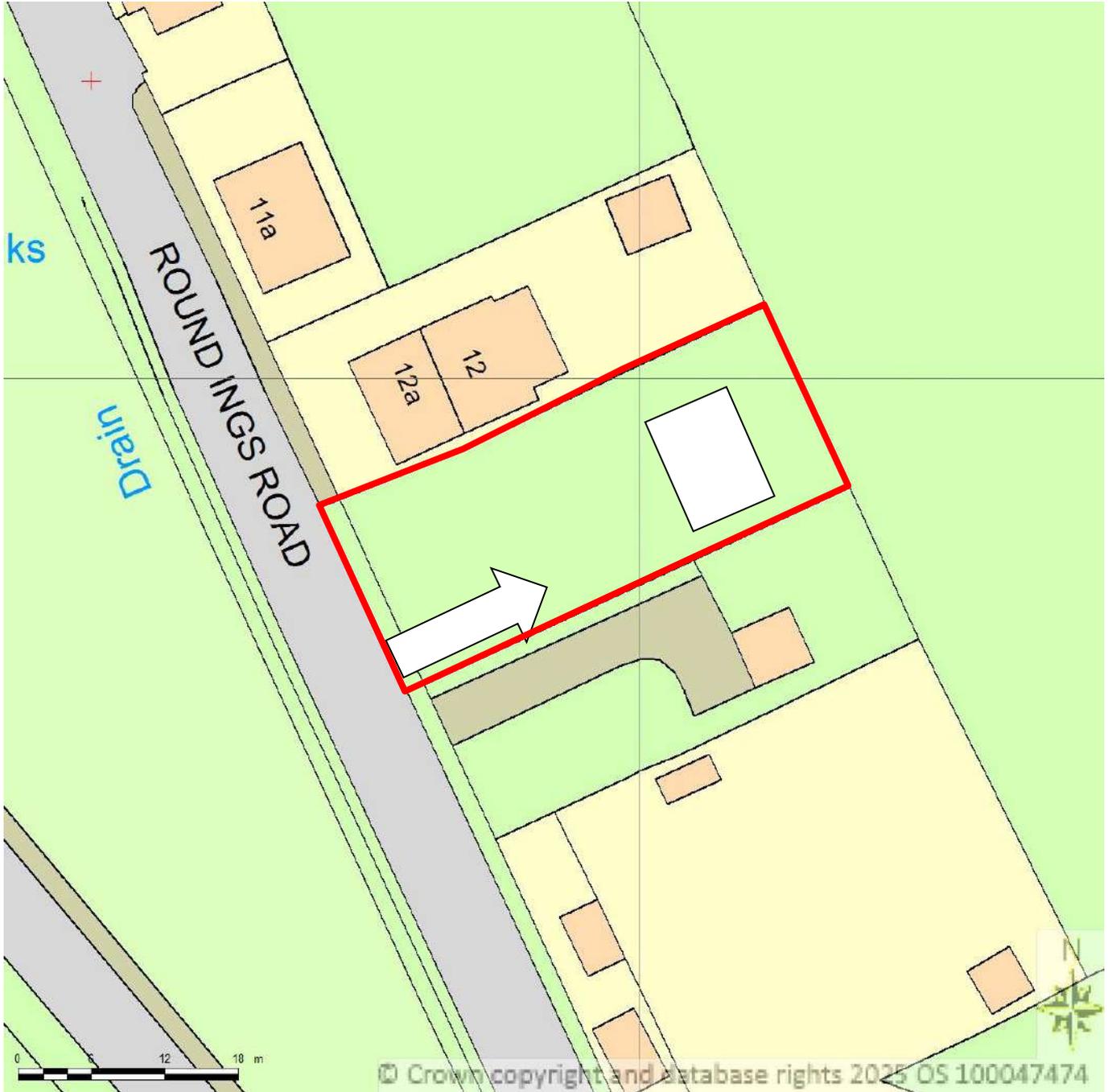
M. Huddleston. MEng

August 2025

This report is subject to the provisions of the Copyright Acts and is for the sole benefit of Mrs P Barber in respect of the proposals described.

APPENDIX A  
LOCATION PLAN

BLOCK/SITE PLAN  
AREA 90m x 90m  
SCALE 1:500 on A4  
CENTRE COORDINATES: 407993, 417186



Supplied by Streetwise Maps Ltd  
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APPENDIX B  
GROUNDSURE REPORT

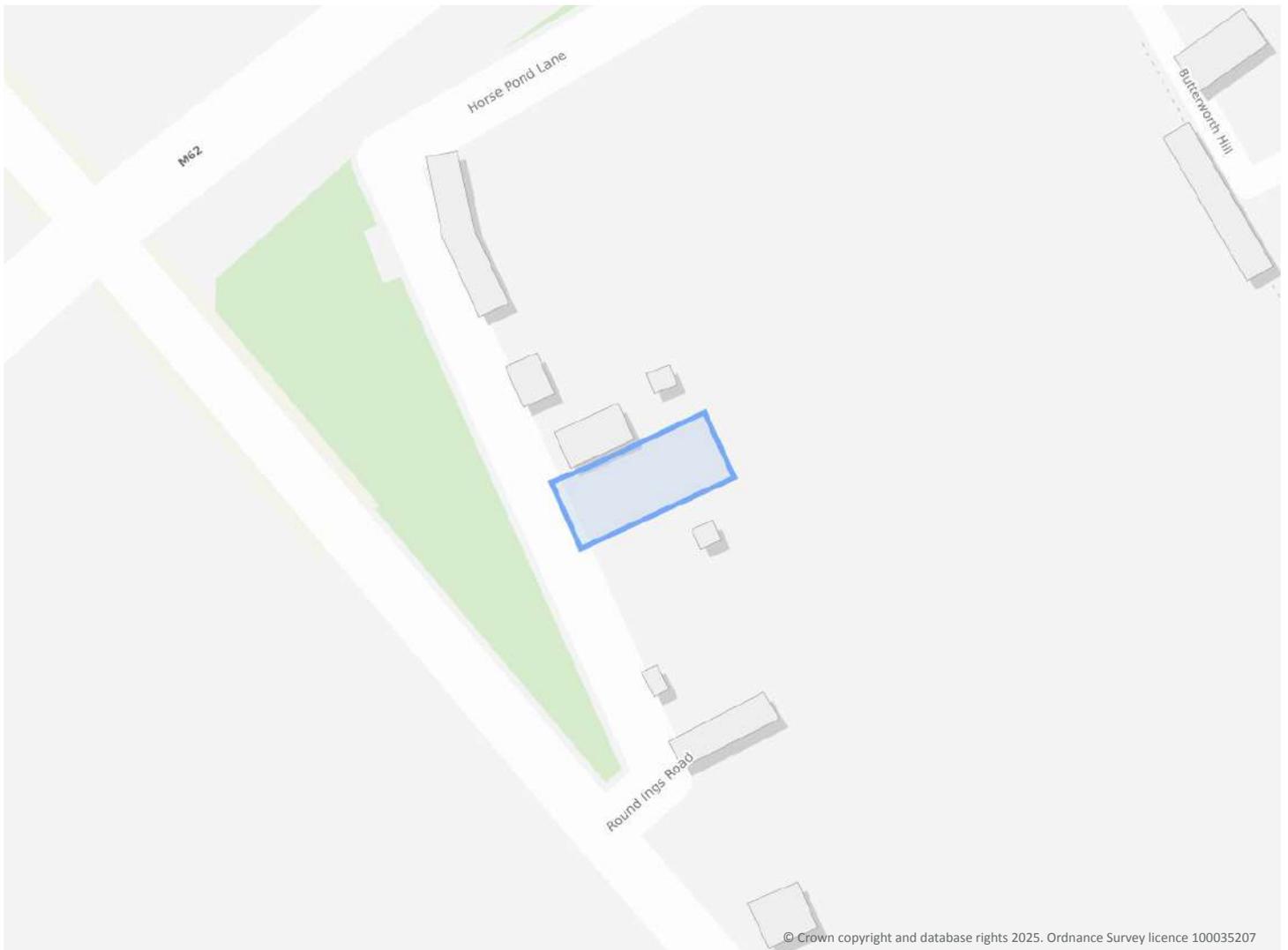
## 8341 ROUND INGS LANE OUTLANE

### Order Details

**Date:** 06/08/2025  
**Your ref:** 8341  
**Our Ref:** GS-OYT-WYL-RUM-X6V

### Site Details

**Location:** 407996 417190  
**Area:** 0.07 ha  
**Authority:** [Kirklees Council](#) ↗



[Summary of findings](#)

[p. 2 >](#)

[Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.14 >](#)

[Insight User Guide](#) ↗

Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com) ↗

01273 257 755

## Summary of findings

Page	Section	<a href="#">Past land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">15 &gt;</a>	<a href="#">1.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	0	0	1	6	-
<a href="#">16 &gt;</a>	<a href="#">1.2 &gt;</a>	<a href="#">Historical tanks &gt;</a>	0	0	0	3	-
16	1.3	Historical energy features	0	0	0	0	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	0	-
17	1.6	Historical military land	0	0	0	0	-
Page	Section	<a href="#">Past land use - un-grouped &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">18 &gt;</a>	<a href="#">2.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	0	0	2	6	-
<a href="#">19 &gt;</a>	<a href="#">2.2 &gt;</a>	<a href="#">Historical tanks &gt;</a>	0	0	0	3	-
19	2.3	Historical energy features	0	0	0	0	-
20	2.4	Historical petrol stations	0	0	0	0	-
20	2.5	Historical garages	0	0	0	0	-
Page	Section	<a href="#">Waste and landfill &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
21	3.1	Active or recent landfill	0	0	0	0	-
21	3.2	Historical landfill (BGS records)	0	0	0	0	-
22	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
22	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
22	3.5	Historical waste sites	0	0	0	0	-
22	3.6	Licensed waste sites	0	0	0	0	-
<a href="#">22 &gt;</a>	<a href="#">3.7 &gt;</a>	<a href="#">Waste exemptions &gt;</a>	0	0	30	4	-
Page	Section	<a href="#">Current industrial land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
26	4.1	Recent industrial land uses	0	0	0	-	-
26	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
27	4.3	Current or recent petrol stations	0	0	0	0	-
27	4.4	Electricity cables	0	0	0	0	-
27	4.5	Gas pipelines	0	0	0	0	-



27	4.6	Sites determined as Contaminated Land	0	0	0	0	-
27	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
28	4.8	Regulated explosive sites	0	0	0	0	-
28	4.9	Hazardous substance storage/usage	0	0	0	0	-
28	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
28	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
28	4.12	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
29	4.13	Radioactive Substance Authorisations	0	0	0	0	-
<b>29 &gt;</b>	<b>4.14 &gt;</b>	<b><u>Licensed Discharges to controlled waters &gt;</u></b>	0	0	0	<b>1</b>	-
29	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
29	4.16	Pollutant release to public sewer	0	0	0	0	-
30	4.17	List 1 Dangerous Substances	0	0	0	0	-
30	4.18	List 2 Dangerous Substances	0	0	0	0	-
30	4.19	Pollution Incidents (EA/NRW)	0	0	0	0	-
30	4.20	Pollution inventory substances	0	0	0	0	-
30	4.21	Pollution inventory waste transfers	0	0	0	0	-
31	4.22	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
32	5.1	Superficial aquifer	None (within 500m)				
<b>33 &gt;</b>	<b>5.2 &gt;</b>	<b><u>Bedrock aquifer &gt;</u></b>	Identified (within 500m)				
<b>34 &gt;</b>	<b>5.3 &gt;</b>	<b><u>Groundwater vulnerability &gt;</u></b>	Identified (within 50m)				
35	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
35	5.5	Groundwater vulnerability- local information	None (within 0m)				
<b>36 &gt;</b>	<b>5.6 &gt;</b>	<b><u>Groundwater abstractions &gt;</u></b>	0	0	0	2	6
<b>38 &gt;</b>	<b>5.7 &gt;</b>	<b><u>Surface water abstractions &gt;</u></b>	0	0	0	0	3
<b>39 &gt;</b>	<b>5.8 &gt;</b>	<b><u>Potable abstractions &gt;</u></b>	0	0	0	0	1
40	5.9	Source Protection Zones	0	0	0	0	-
40	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<b><u>Hydrology &gt;</u></b>	On site	0-50m	50-250m	250-500m	500-2000m



<a href="#">41</a> >	<a href="#">6.1</a> >	<a href="#">Water Network (OS MasterMap)</a> >	0	2	3	-	-
<a href="#">42</a> >	<a href="#">6.2</a> >	<a href="#">Surface water features</a> >	0	1	1	-	-
<a href="#">42</a> >	<a href="#">6.3</a> >	<a href="#">WFD Surface water body catchments</a> >	1	-	-	-	-
<a href="#">43</a> >	<a href="#">6.4</a> >	<a href="#">WFD Surface water bodies</a> >	0	0	0	-	-
<a href="#">43</a> >	<a href="#">6.5</a> >	<a href="#">WFD Groundwater bodies</a> >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
44	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
44	7.2	Historical Flood Events	0	0	0	-	-
44	7.3	Flood Defences	0	0	0	-	-
45	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
45	7.5	Flood Storage Areas	0	0	0	-	-
46	7.6	Flood Zone 2	None (within 50m)				
46	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
47	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	<a href="#">Groundwater flooding</a> >					
<a href="#">48</a> >	<a href="#">9.1</a> >	<a href="#">Groundwater flooding</a> >	Negligible (within 50m)				
Page	Section	<a href="#">Environmental designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
49	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
50	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
50	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
50	10.4	Special Protection Areas (SPA)	0	0	0	0	0
50	10.5	National Nature Reserves (NNR)	0	0	0	0	0
51	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
<a href="#">51</a> >	<a href="#">10.7</a> >	<a href="#">Designated Ancient Woodland</a> >	0	0	0	0	5
51	10.8	Biosphere Reserves	0	0	0	0	0
52	10.9	Forest Parks	0	0	0	0	0
52	10.10	Marine Conservation Zones	0	0	0	0	0
<a href="#">52</a> >	<a href="#">10.11</a> >	<a href="#">Green Belt</a> >	1	0	0	1	0



52	10.12	Proposed Ramsar sites	0	0	0	0	0
53	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
53	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
53	10.15	Nitrate Sensitive Areas	0	0	0	0	0
53	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
<b>54 &gt;</b>	<b>10.17 &gt;</b>	<b><u>SSSI Impact Risk Zones</u> &gt;</b>	1	-	-	-	-
55	10.18	SSSI Units	0	0	0	0	0
Page	Section	<b><u>Visual and cultural designations</u> &gt;</b>	On site	0-50m	50-250m	250-500m	500-2000m
56	11.1	World Heritage Sites	0	0	0	-	-
57	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
57	11.3	National Parks	0	0	0	-	-
<b>57 &gt;</b>	<b>11.4 &gt;</b>	<b><u>Listed Buildings</u> &gt;</b>	0	0	5	-	-
58	11.5	Conservation Areas	0	0	0	-	-
58	11.6	Scheduled Ancient Monuments	0	0	0	-	-
58	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	<b><u>Agricultural designations</u> &gt;</b>	On site	0-50m	50-250m	250-500m	500-2000m
<b>59 &gt;</b>	<b>12.1 &gt;</b>	<b><u>Agricultural Land Classification</u> &gt;</b>	Grade 4 (within 250m)				
60	12.2	Open Access Land	0	0	0	-	-
<b>60 &gt;</b>	<b>12.3 &gt;</b>	<b><u>Tree Felling Licences</u> &gt;</b>	0	1	5	-	-
60	12.4	Environmental Stewardship Schemes	0	0	0	-	-
61	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	<b><u>Habitat designations</u> &gt;</b>	On site	0-50m	50-250m	250-500m	500-2000m
<b>62 &gt;</b>	<b>13.1 &gt;</b>	<b><u>Priority Habitat Inventory</u> &gt;</b>	0	0	2	-	-
63	13.2	Habitat Networks	0	0	0	-	-
63	13.3	Open Mosaic Habitat	0	0	0	-	-
63	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	<b><u>Geology 1:10,000 scale</u> &gt;</b>	On site	0-50m	50-250m	250-500m	500-2000m
<b>64 &gt;</b>	<b>14.1 &gt;</b>	<b><u>10k Availability</u> &gt;</b>	Identified (within 500m)				
<b>65 &gt;</b>	<b>14.2 &gt;</b>	<b><u>Artificial and made ground (10k)</u> &gt;</b>	1	0	2	3	-



67 >	14.3 >	<a href="#">Superficial geology (10k) &gt;</a>	0	0	0	1	-
68	14.4	Landslip (10k)	0	0	0	0	-
69 >	14.5 >	<a href="#">Bedrock geology (10k) &gt;</a>	1	1	1	3	-
70 >	14.6 >	<a href="#">Bedrock faults and other linear features (10k) &gt;</a>	0	1	1	0	-
Page	Section	<a href="#">Geology 1:50,000 scale &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
71 >	15.1 >	<a href="#">50k Availability &gt;</a>	Identified (within 500m)				
72 >	15.2 >	<a href="#">Artificial and made ground (50k) &gt;</a>	0	0	1	0	-
73	15.3	Artificial ground permeability (50k)	0	0	-	-	-
74	15.4	Superficial geology (50k)	0	0	0	0	-
74	15.5	Superficial permeability (50k)	None (within 50m)				
74	15.6	Landslip (50k)	0	0	0	0	-
74	15.7	Landslip permeability (50k)	None (within 50m)				
75 >	15.8 >	<a href="#">Bedrock geology (50k) &gt;</a>	1	1	2	2	-
76 >	15.9 >	<a href="#">Bedrock permeability (50k) &gt;</a>	Identified (within 50m)				
76 >	15.10 >	<a href="#">Bedrock faults and other linear features (50k) &gt;</a>	0	1	0	1	-
Page	Section	<a href="#">Boreholes &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
77 >	16.1 >	<a href="#">BGS Boreholes &gt;</a>	0	0	9	-	-
Page	Section	<a href="#">Natural ground subsidence &gt;</a>					
79 >	17.1 >	<a href="#">Shrink swell clays &gt;</a>	Very low (within 50m)				
80 >	17.2 >	<a href="#">Running sands &gt;</a>	Negligible (within 50m)				
81 >	17.3 >	<a href="#">Compressible deposits &gt;</a>	Negligible (within 50m)				
82 >	17.4 >	<a href="#">Collapsible deposits &gt;</a>	Very low (within 50m)				
83 >	17.5 >	<a href="#">Landslides &gt;</a>	Low (within 50m)				
85 >	17.6 >	<a href="#">Ground dissolution of soluble rocks &gt;</a>	Negligible (within 50m)				
Page	Section	<a href="#">Mining and ground workings &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
87 >	18.1 >	<a href="#">BritPits &gt;</a>	0	1	0	0	-
88 >	18.2 >	<a href="#">Surface ground workings &gt;</a>	0	0	2	-	-
88	18.3	Underground workings	0	0	0	0	0
88	18.4	Underground mining extents	0	0	0	0	-



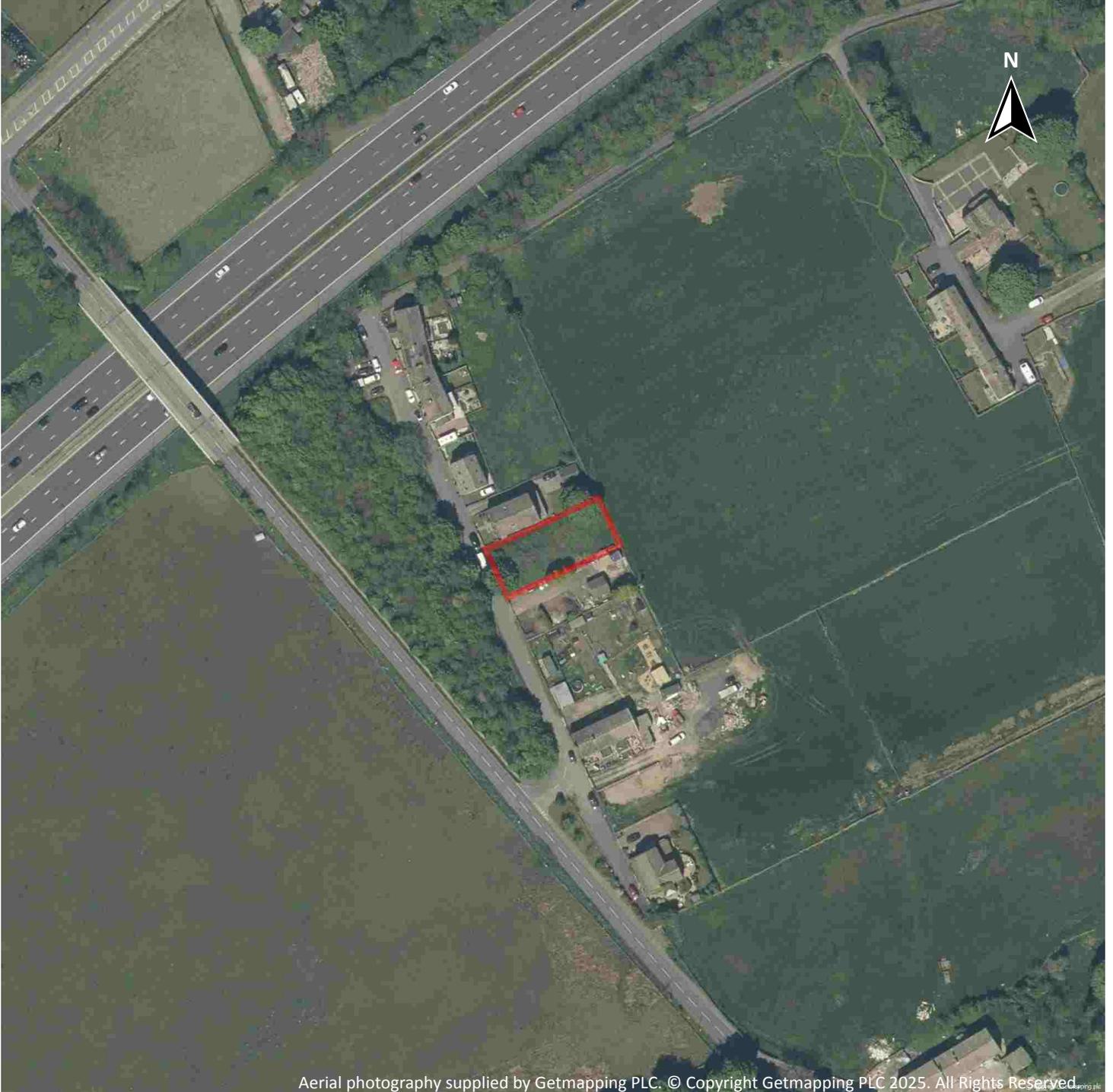
89	18.5	Historical Mineral Planning Areas	0	0	0	0	-
<b>89 &gt;</b>	<b>18.6 &gt;</b>	<b><u>Non-coal mining</u> &gt;</b>	1	0	0	0	0
89	18.7	JPB mining areas	None (within 0m)				
89	18.8	The Coal Authority non-coal mining	0	0	0	0	-
90	18.9	Researched mining	0	0	0	0	-
90	18.10	Mining record office plans	0	0	0	0	-
90	18.11	BGS mine plans	0	0	0	0	-
<b>90 &gt;</b>	<b>18.12 &gt;</b>	<b><u>Coal mining</u> &gt;</b>	Identified (within 0m)				
91	18.13	Brine areas	None (within 0m)				
91	18.14	Gypsum areas	None (within 0m)				
91	18.15	Tin mining	None (within 0m)				
91	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
92	19.1	Natural cavities	0	0	0	0	-
92	19.2	Mining cavities	0	0	0	0	0
92	19.3	Reported recent incidents	0	0	0	0	-
92	19.4	Historical incidents	0	0	0	0	-
Page	Section	<u>Radon</u> >					
<b>94 &gt;</b>	<b>20.1 &gt;</b>	<b><u>Radon</u> &gt;</b>	Between 1% and 3% (within 0m)				
Page	Section	<u>Soil chemistry</u> >	On site	0-50m	50-250m	250-500m	500-2000m
<b>96 &gt;</b>	<b>21.1 &gt;</b>	<b><u>BGS Estimated Background Soil Chemistry</u> &gt;</b>	3	1	-	-	-
96	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
97	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
98	22.1	Underground railways (London)	0	0	0	-	-
98	22.2	Underground railways (Non-London)	0	0	0	-	-
98	22.3	Railway tunnels	0	0	0	-	-
98	22.4	Historical railway and tunnel features	0	0	0	-	-
98	22.5	Royal Mail tunnels	0	0	0	-	-



99	22.6	Historical railways	0	0	0	-	-
99	22.7	Railways	0	0	0	-	-
99	22.8	Crossrail 2	0	0	0	0	-
99	22.9	HS2	0	0	0	0	-



## Recent aerial photograph



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Capture Date: 30/05/2021

Site Area: 0.07ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 6 August 2025

## Recent site history - 2018 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2025. All Rights Reserved.

Capture Date: 01/07/2018

Site Area: 0.07ha



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01273 257 755

Date: 6 August 2025

## Recent site history - 2012 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2025. All Rights Reserved.

Capture Date: 26/03/2012

Site Area: 0.07ha



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01273 257 755

Date: 6 August 2025

## Recent site history - 2000 aerial photograph



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Capture Date: 25/08/2000

Site Area: 0.07ha



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01273 257 755

Date: 6 August 2025

## Recent site history - 1999 aerial photograph



Capture Date: 10/09/1999

Site Area: 0.07ha



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01273 257 755

Date: 6 August 2025

## OS MasterMap site plan



Site Area: 0.07ha



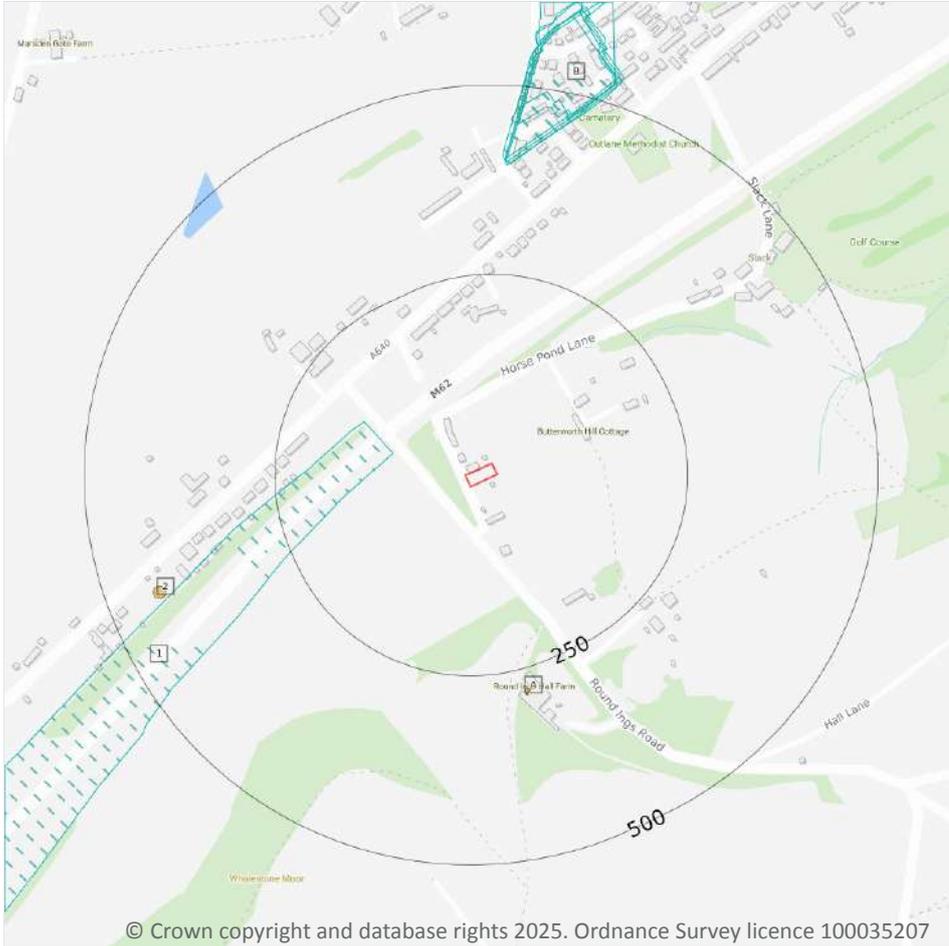
Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 6 August 2025

# 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** **7**

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 15 >](#)

ID	Location	Land use	Dates present	Group ID
1	99m W	Cuttings	1978 - 1993	1482635

ID	Location	Land use	Dates present	Group ID
B	395m N	Unspecified Mills	1955	1508321
B	397m N	Unspecified Mills	1892	1538229
B	398m N	Unspecified Mills	1948	1576328
B	403m N	Unspecified Mills	1967	1535597
B	450m N	Unspecified Mills	1978	1557484
B	468m N	Unspecified Mills	1908	1579210

This data is sourced from Ordnance Survey / Groundsure.

## 1.2 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, 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 ungrouped 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 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	276m S	Unspecified Tank	1991	243270
A	284m S	Unspecified Tank	1982	243285
2	422m W	Unspecified Tank	1983	243287

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 ungrouped 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 ungrouped 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 ungrouped 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

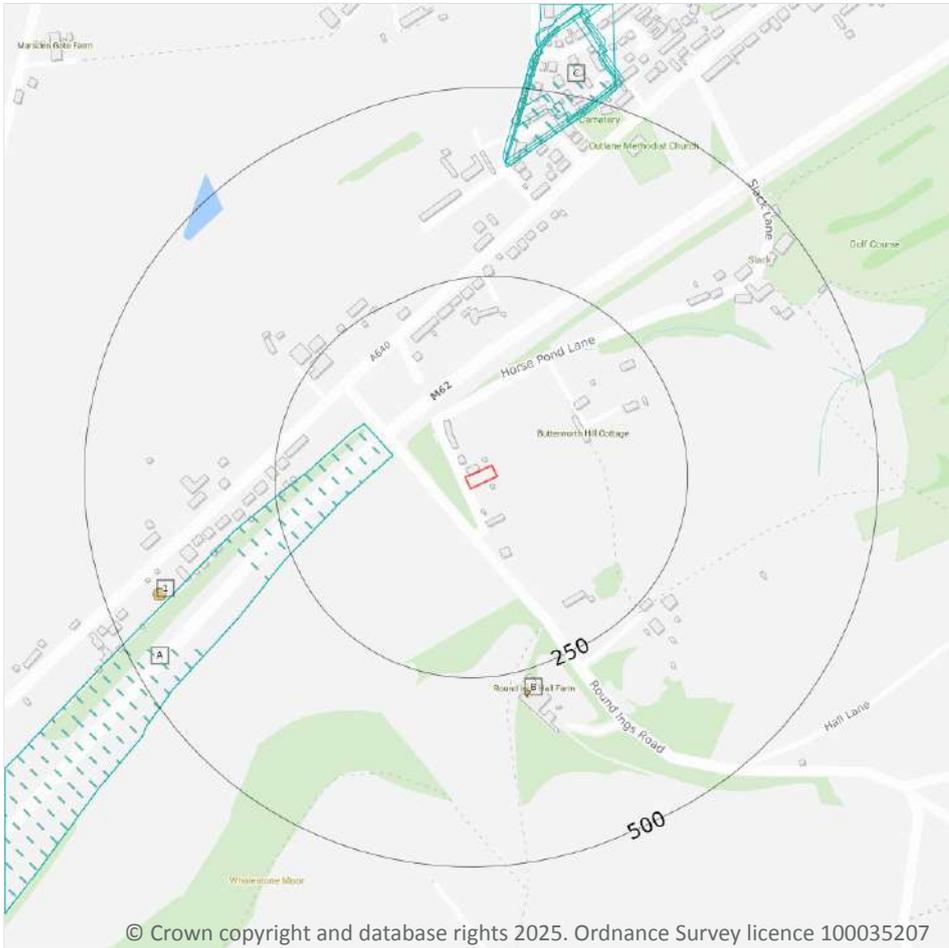
0

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** **8**

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 18](#) >

ID	Location	Land Use	Date	Group ID
A	99m W	Cuttings	1993	1482635
A	99m W	Cuttings	1978	1482635
C	395m N	Unspecified Mills	1955	1508321

ID	Location	Land Use	Date	Group ID
C	397m N	Unspecified Mills	1892	1538229
C	398m N	Unspecified Mills	1948	1576328
C	403m N	Unspecified Mills	1967	1535597
C	450m N	Unspecified Mills	1978	1557484
C	468m N	Unspecified Mills	1908	1579210

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 18 >](#)

ID	Location	Land Use	Date	Group ID
B	276m S	Unspecified Tank	1991	243270
B	284m S	Unspecified Tank	1982	243285
1	422m W	Unspecified Tank	1983	243287

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

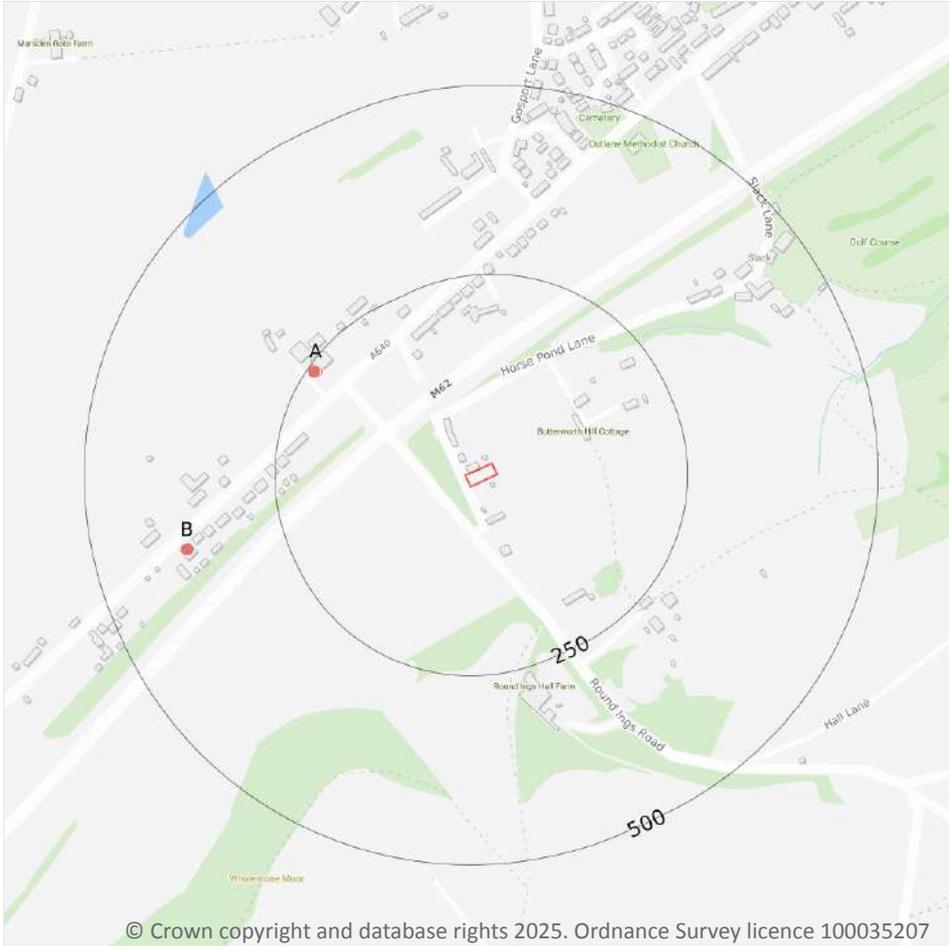
0

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)

● 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

0

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

*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

34

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 21 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX061540	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters



ID	Location	Site	Reference	Category	Sub-Category	Description
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX061540	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX061540	Using waste exemption	On a farm	Use of waste in construction
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX061540	Using waste exemption	On a farm	Use of waste for a specified purpose
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX061540	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX061540	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX061540	Disposing of waste exemption	On a farm	Burning waste in the open
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX219740	Using waste exemption	On a farm	Use of waste in construction
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX219740	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX219740	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX219740	Using waste exemption	On a farm	Use of waste for a specified purpose
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX219740	Disposing of waste exemption	On a farm	Burning waste in the open
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX219740	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX219740	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit



ID	Location	Site	Reference	Category	Sub-Category	Description
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX344758	Using waste exemption	On a farm	Use of waste in construction
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX344758	Using waste exemption	On a farm	Use of waste for a specified purpose
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX344758	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX344758	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX344758	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX344758	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	240m NW	Spring Hill Farm, New Hey Road, Huddersfield, Hd3 3fj	WEX344758	Disposing of waste exemption	On a farm	Burning waste in the open
A	242m NW	Spring Hill Farm New Hey Road Huddersfield Hd3 3fj	EPR/BE5542T Q/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
A	242m NW	Spring Hill Farm New Hey Road Huddersfield Hd3 3fj	EPR/QE5387H C/A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	242m NW	Spring Hill Farm New Hey Road Huddersfield Hd3 3fj	EPR/QE5387H C/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
A	242m NW	Spring Hill Farm New Hey Road Huddersfield Hd3 3fj	EPR/QE5387H C/A001	Using waste exemption	Agricultural waste only	Spreading waste on agricultural land to confer benefit
A	242m NW	Spring Hill Farm New Hey Road Huddersfield Hd3 3fj	EPR/BE5542T Q/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit

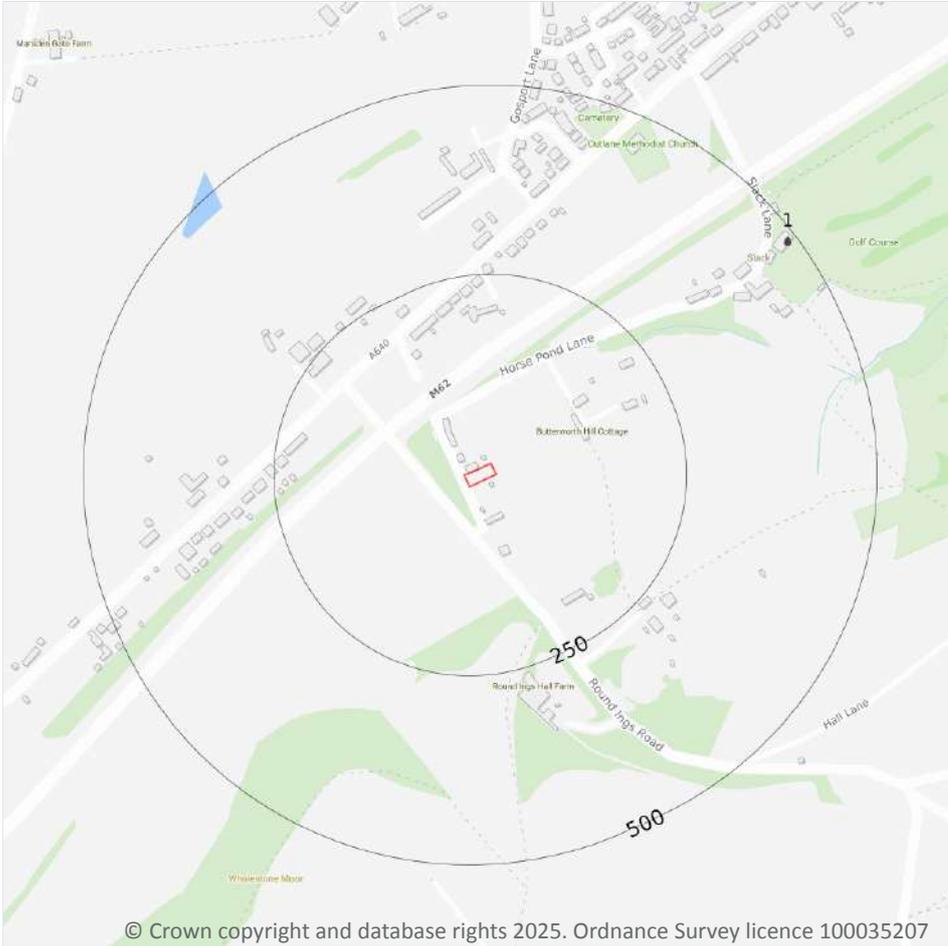


ID	Location	Site	Reference	Category	Sub-Category	Description
A	242m NW	Spring Hill Farm New Hey Road Huddersfield Hd3 3fj	EPR/QE5387H C/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
A	242m NW	Spring Hill Farm New Hey Road Huddersfield Hd3 3fj	EPR/QE5387H C/A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	242m NW	Spring Hill Farm New Hey Road Huddersfield Hd3 3fj	EPR/QE5387H C/A001	Using waste exemption	Agricultural waste only	Use of waste in construction
A	242m NW	Spring Hill Farm New Hey Road Huddersfield Hd3 3fj	EPR/QE5387H C/A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
B	379m W	Fieldhouse Farm 995 New Hey Road Huddersfield West Yorkshire Hd3 3fh	EPR/RH0212Y C/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
B	379m W	Fieldhouse Farm 995 New Hey Road Huddersfield West Yorkshire Hd3 3fh	EPR/RH0212Y C/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
B	379m W	Fieldhouse Farm 995 New Hey Road Huddersfield West Yorkshire Hd3 3fh	EPR/RH0212Y C/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit
B	379m W	Fieldhouse Farm 995 New Hey Road Huddersfield West Yorkshire Hd3 3fh	EPR/RH0212Y C/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open

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



## 4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Licensed Discharges to controlled waters

### 4.1 Recent industrial land uses

**Records within 250m** **0**

Current potentially contaminative industrial sites.

*This data is sourced from Ordnance Survey.*

### 4.2 National Geographic Database (NGD) - Current or recent tanks

**Records within 250m** **0**

Current or recent tanks identified from the Ordnance Survey NGD.

*This data is sourced from Ordnance Survey.*

### 4.3 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

*This data is sourced from Experian.*

### 4.4 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

### 4.5 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

### 4.6 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.*

### 4.7 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.*

## 4.8 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.*

## 4.9 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.*

## 4.10 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.*

## 4.11 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.*

## 4.12 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.*



### 4.13 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.*

### 4.14 Licensed Discharges to controlled waters

Records within 500m

1

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 26 >](#)

ID	Location	Address	Details	
1	488m NE	OUTLANE SPS, OUTLANE, HUDDERSFIELD, WEST YORKSHIRE	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WADC330 Permit Version: 1 Receiving Water: LONGWOOD BROOK	Status: TRANSFERRED FROM WATER ACT 1989 Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 11/02/2003

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

### 4.15 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.*

### 4.16 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.*



#### 4.17 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.*

#### 4.18 List 2 Dangerous Substances

Records within 500m

0

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.

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

#### 4.19 Pollution Incidents (EA/NRW)

Records within 500m

0

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

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

#### 4.20 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.*

#### 4.21 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.*



## 4.22 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

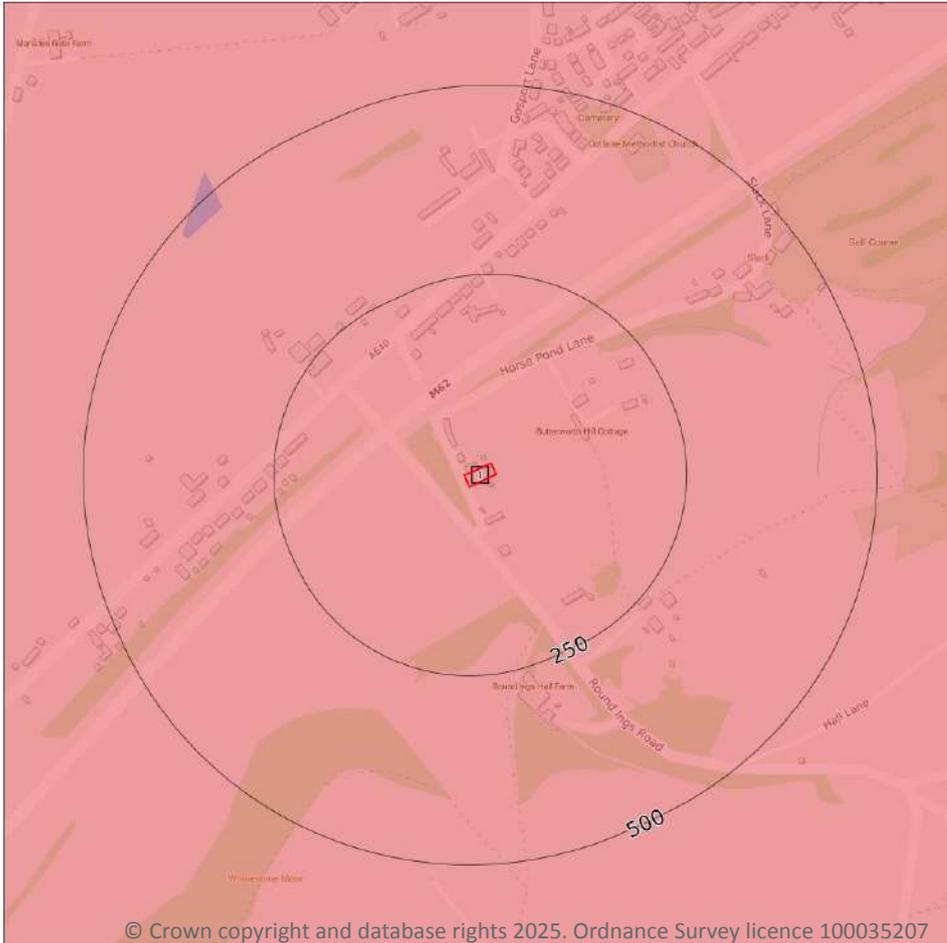
0

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

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### 5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

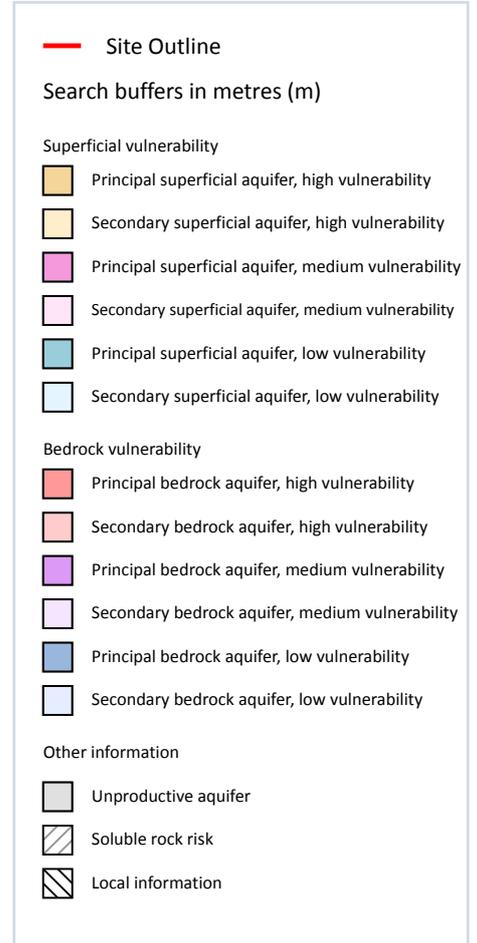
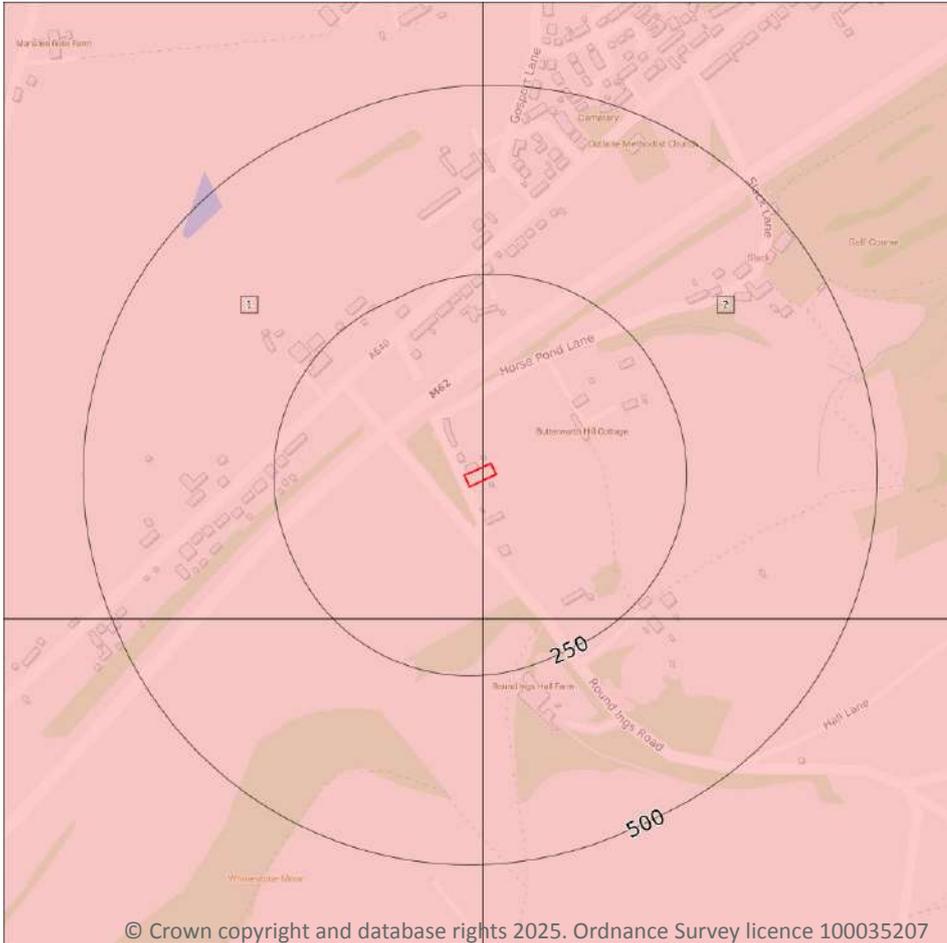
Features are displayed on the Bedrock aquifer map on [page 33](#) >

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

*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

2

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 34 >](#)

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	<b>Summary Classification:</b> Secondary bedrock aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, No Superficial Aquifer	<b>Leaching class:</b> High <b>Infiltration value:</b> >70% <b>Dilution value:</b> >550mm/year	<b>Vulnerability:</b> - <b>Aquifer type:</b> - <b>Thickness:</b> >10m <b>Patchiness value:</b> <90% <b>Recharge potential:</b> No Data	<b>Vulnerability:</b> High <b>Aquifer type:</b> Secondary <b>Flow mechanism:</b> Well connected fractures
2	On site	<b>Summary Classification:</b> Secondary bedrock aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, No Superficial Aquifer	<b>Leaching class:</b> High <b>Infiltration value:</b> >70% <b>Dilution value:</b> >550mm/year	<b>Vulnerability:</b> - <b>Aquifer type:</b> - <b>Thickness:</b> <3m <b>Patchiness value:</b> <90% <b>Recharge potential:</b> No Data	<b>Vulnerability:</b> High <b>Aquifer type:</b> Secondary <b>Flow mechanism:</b> 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

<b>Records on site</b>	<b>0</b>
------------------------	----------

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.*

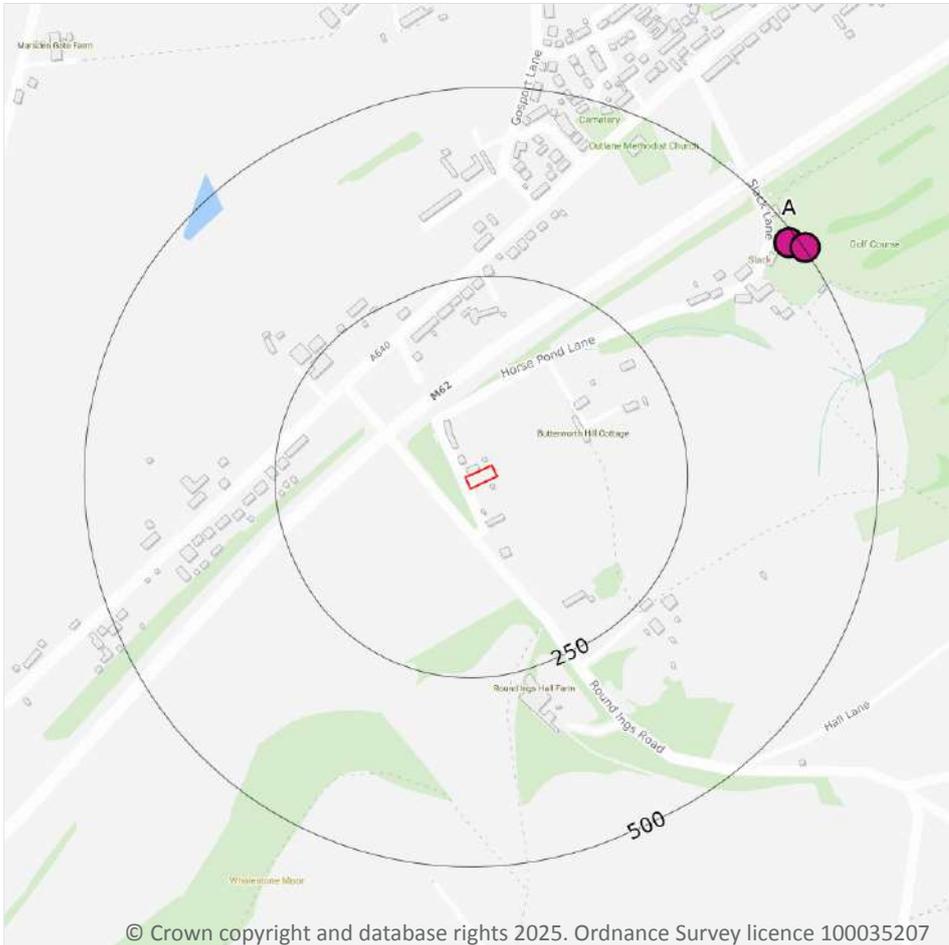
## 5.5 Groundwater vulnerability- local information

<b>Records on site</b>	<b>0</b>
------------------------	----------

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](mailto: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

8

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.

Features are displayed on the Abstractions and Source Protection Zones map on [page 36 >](#)

ID	Location	Details	
A	488m NE	Status: Historical Licence No: 2/27/11/185 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - OUTLANE GOLF CLUB - MILLSTONE GRIT Data Type: Point Name: OUTLANE GOLF CLUB LTD Easting: 408400 Northing: 417500	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 03/04/2000 Expiry Date: 31/10/2009 Issue No: 1 Version Start Date: 03/04/2000 Version End Date: -
A	488m NE	Status: Historical Licence No: 2/27/11/185 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT - HUDDERSFIELD Data Type: Point Name: OUTLANE GOLF CLUB LTD Easting: 408400 Northing: 417500	Annual Volume (m <sup>3</sup> ): 6750 Max Daily Volume (m <sup>3</sup> ): 45 Original Application No: - Original Start Date: 03/04/2000 Expiry Date: 31/10/2009 Issue No: 1 Version Start Date: 03/04/2000 Version End Date: -
A	502m NE	Status: Active Licence No: NE/027/0011/003 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - MILLSTONE GRIT - HUDDERSFIELD Data Type: Point Name: OUTLANE GOLF CLUB LTD Easting: 408421 Northing: 417494	Annual Volume (m <sup>3</sup> ): 6750 Max Daily Volume (m <sup>3</sup> ): 45 Original Application No: NPSWR004044 Original Start Date: 23/08/2010 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 23/08/2010 Version End Date: -
-	1347m NW	Status: Historical Licence No: 2/27/12/224 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: GRAVITY Data Type: Point Name: FAIRBANK Easting: 406900 Northing: 418000	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -
-	1347m NW	Status: Historical Licence No: 2/27/12/224 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING - BARKISLAND Data Type: Point Name: FAIRBANK Easting: 406900 Northing: 418000	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 28/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/04/1966 Version End Date: -



ID	Location	Details	
-	1431m NW	Status: Active Licence No: 2/27/12/270 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING - MILLSTONE GRIT - STAINLAND Data Type: Point Name: J M & A P DARWENT Easting: 407400 Northing: 418500	Annual Volume (m <sup>3</sup> ): 9150 Max Daily Volume (m <sup>3</sup> ): 27.3 Original Application No: 5158 Original Start Date: 28/06/1972 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2008 Version End Date: -
-	1431m NW	Status: Historical Licence No: 2/27/12/270 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING - MILLSTONE GRIT Data Type: Point Name: J M & A P DARWENT Easting: 407400 Northing: 418500	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 28/06/1972 Expiry Date: - Issue No: 101 Version Start Date: 15/05/2003 Version End Date: -
-	1550m N	Status: Historical Licence No: 2/27/12/170 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: SPRING Data Type: Point Name: FORD Easting: 407600 Northing: 418700	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 17/03/1966 Version End Date: -

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

## 5.7 Surface water abstractions

### Records within 2000m

3

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.

Features are displayed on the Abstractions and Source Protection Zones map on [page 36 >](#)



ID	Location	Details	
-	1439m S	Status: Historical Licence No: NE/027/0011/015 Details: Hydroelectric Power Generation Direct Source: SURFACE WATER Point: CRIMBLE CLOUGH AT WALLER CLOUGH, HUDDERSFIELD Data Type: Point Name: Garside Easting: 407625 Northing: 415781	Annual Volume (m <sup>3</sup> ): 145152 Max Daily Volume (m <sup>3</sup> ): 484 Original Application No: - Original Start Date: 18/07/2013 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 18/07/2013 Version End Date: -
-	1694m E	Status: Historical Licence No: 2/27/11/066 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: LONGWOOD UPPER AND LOWER RESERVOIRS Data Type: Line Name: YORKSHIRE WATER SERVICES LTD Easting: 409700 Northing: 417000	Annual Volume (m <sup>3</sup> ): 818297 Max Daily Volume (m <sup>3</sup> ): 2241.91 Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/01/1966 Version End Date: -
-	1901m W	Status: Historical Licence No: 2/27/12/167 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RED LANE DYKE - SCAMMONDEN Data Type: Point Name: COLIN PERRIN T/A FIRCONE (BLACK BROOK) LIMITED Easting: 406100 Northing: 417500	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 07/12/1998 Version End Date: -

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

## 5.8 Potable abstractions

### Records within 2000m

1

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.

Features are displayed on the Abstractions and Source Protection Zones map on [page 36 >](#)



ID	Location	Details	
-	1694m E	Status: Historical Licence No: 2/27/11/066 Details: Potable Water Supply - Direct Direct Source: SURFACE WATER Point: LONGWOOD UPPER AND LOWER RESERVOIRS Data Type: Line Name: YORKSHIRE WATER SERVICES LTD Easting: 409700 Northing: 417000	Annual Volume (m <sup>3</sup> ): 818297 Max Daily Volume (m <sup>3</sup> ): 2241.91 Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/01/1966 Version End Date: -

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

## 5.9 Source Protection Zones

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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.*

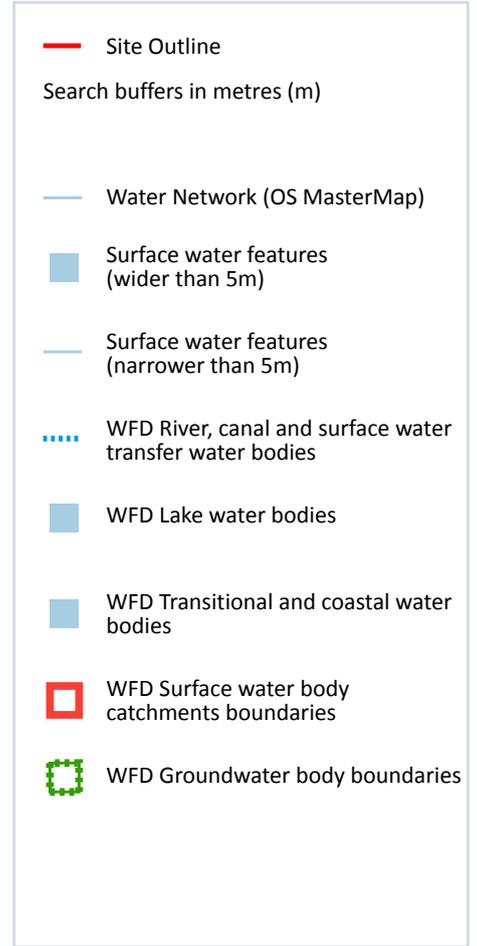
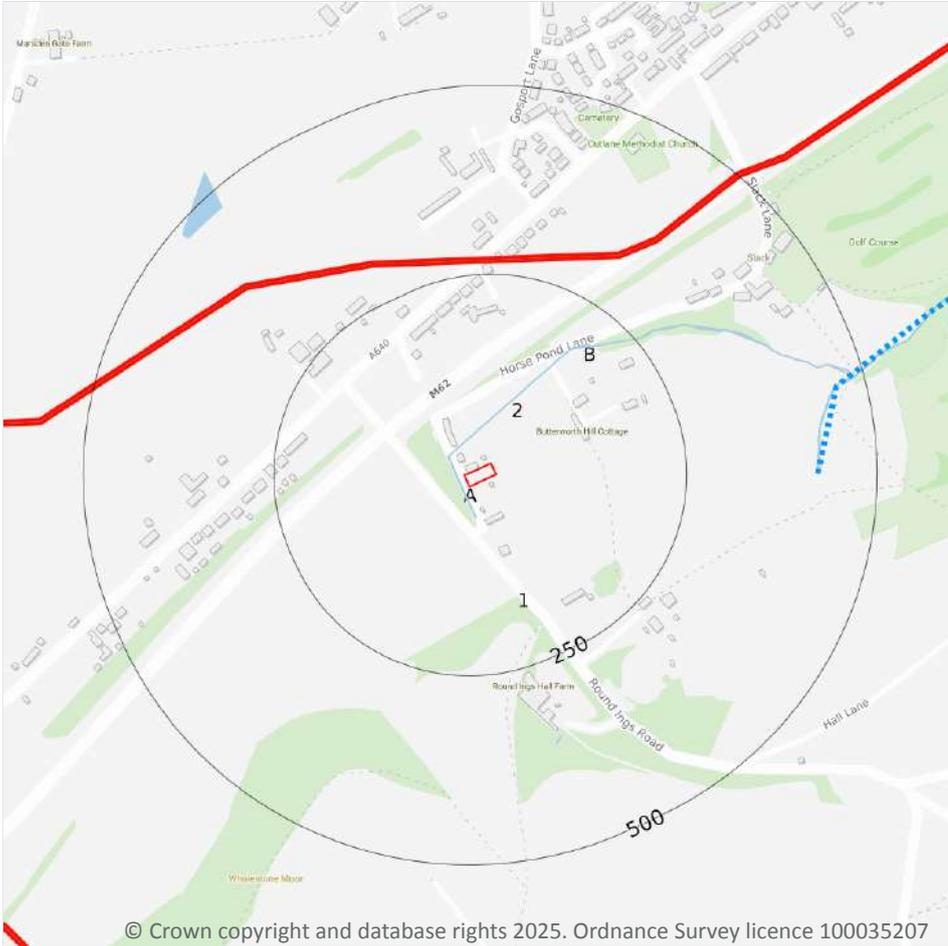
## 5.10 Source Protection Zones (confined aquifer)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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



### 6.1 Water Network (OS MasterMap)

Records within 250m

5

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 41](#) >

ID	Location	Type of water feature	Ground level	Permanence	Name
A	10m SW	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
2	33m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	184m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	202m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	202m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

## 6.2 Surface water features

### Records within 250m

2

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 41 >](#)

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 41 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Colne from Wessenden Brook to R Holme	GB104027063330	Colne and Holme	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 41 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
5	422m E	River	Colne from Wessenden Brook to R Holme	<a href="#">GB104027063330</a> ↗	Moderate	Fail	Moderate	2019

*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 41 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Aire & Calder Carb Limestone / Millstone Grit / Coal Measures.	<a href="#">GB40402G700400</a> ↗	Poor	Poor	Good	2019

*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 the sea

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; 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). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 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.

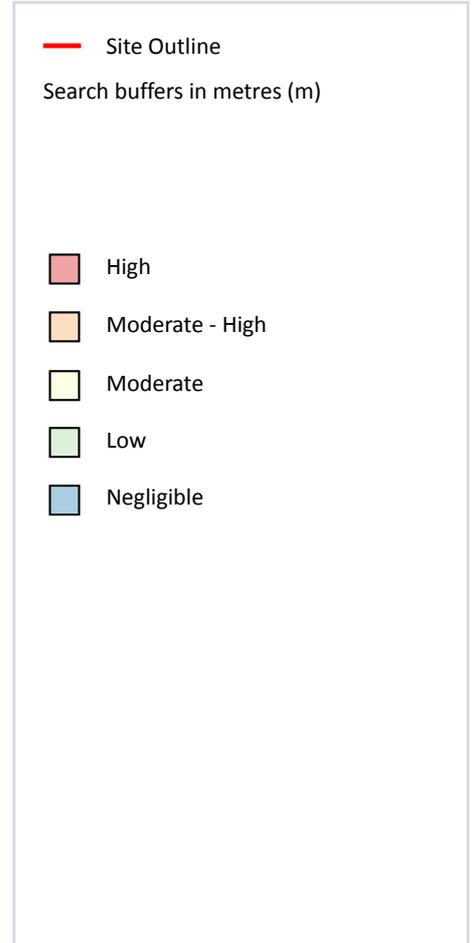
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the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



### 9.1 Groundwater flooding

**Highest risk on site**

**Negligible**

**Highest risk within 50m**

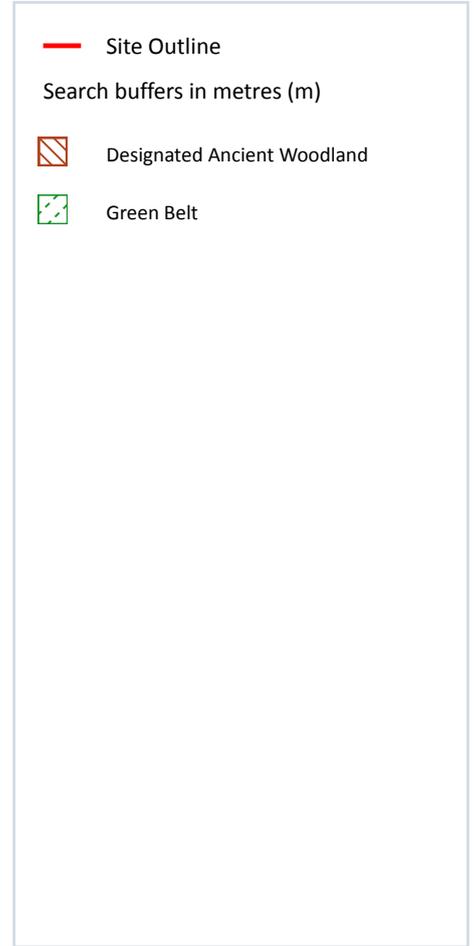
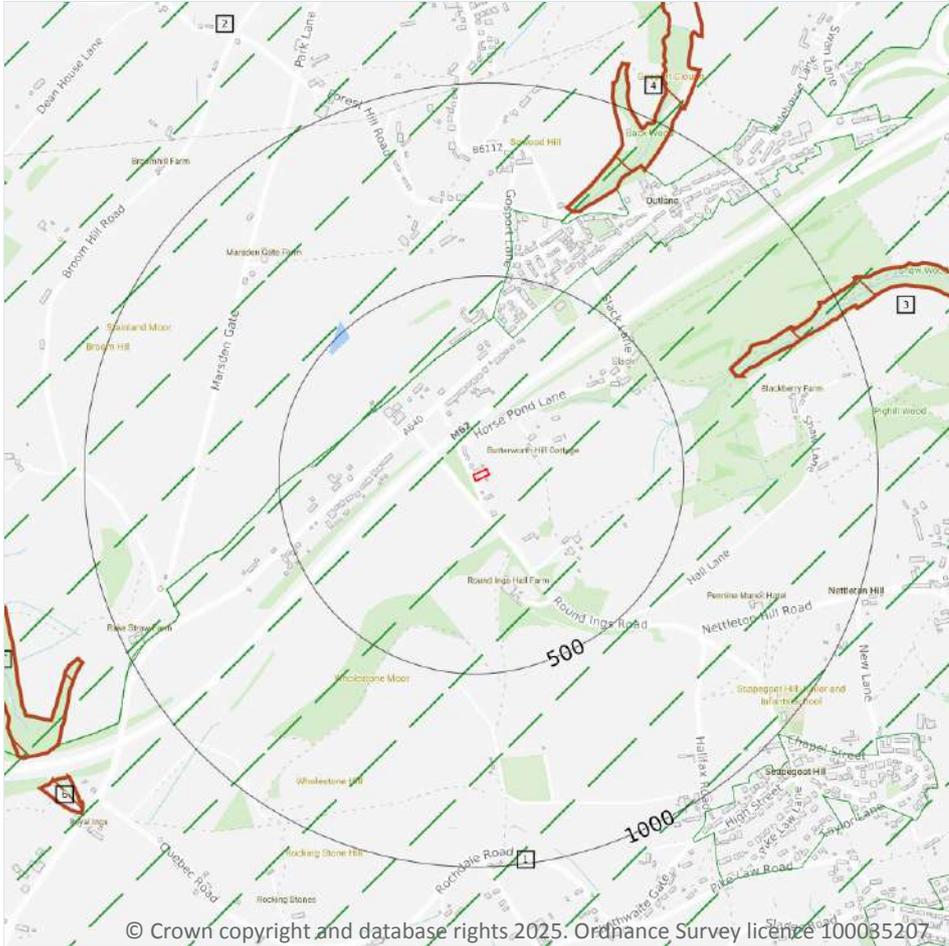
**Negligible**

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 48](#) >

*This data is sourced from Ambiantal Risk Analytics.*

## 10 Environmental designations



### 10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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.

*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

0

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.

*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

5

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 49 >](#)

ID	Location	Name	Woodland Type
3	679m NE	Unknown	Ancient Replanted Woodland
4	703m N	Unknown	Ancient & Semi-Natural Woodland
5	1115m SW	Unknown	Ancient Replanted Woodland
6	1296m SW	Unknown	Ancient Replanted Woodland
-	1459m W	Unknown	Ancient & Semi-Natural 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 49 >](#)

ID	Location	Name	Local Authority name
1	On site	South and West Yorkshire Green Belt	Kirklees
2	288m NW	South and West Yorkshire Green Belt	Calderdale

*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

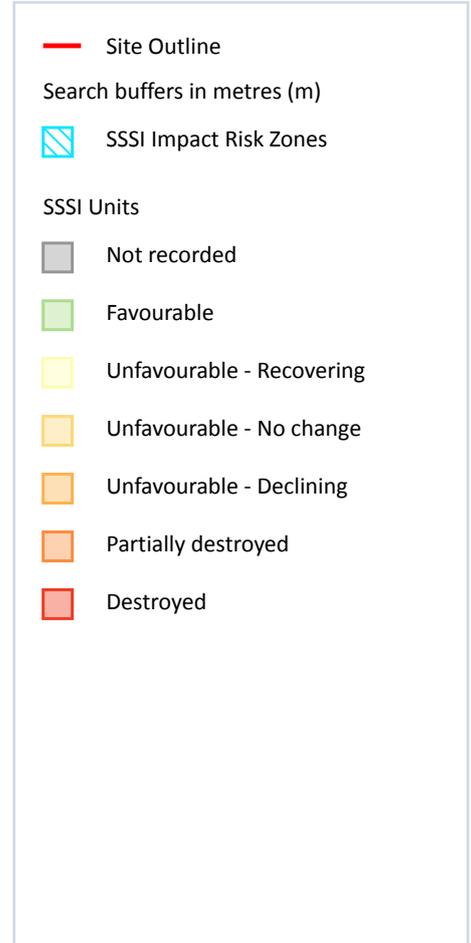
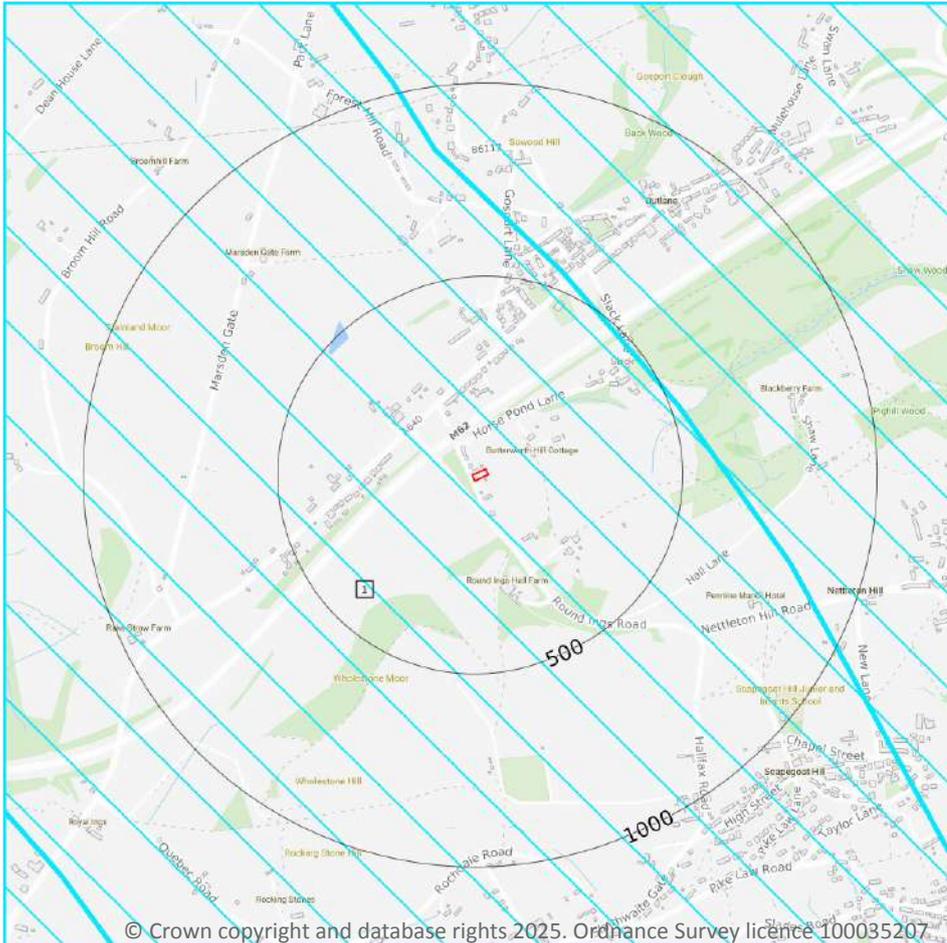
0

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.

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



## SSSI Impact Zones and Units



### 10.17 SSSI Impact Risk Zones

#### Records on site

1

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 54](#) >

ID	Location	Type of developments requiring consultation
1	On site	<a href="https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0303000430000&amp;notes=&amp;location=413843,409691%20(IRZ%20polygon%20centre)">https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0303000430000&amp;notes=&amp;location=413843,409691%20(IRZ%20polygon%20centre)</a>

*This data is sourced from Natural England.*



## 10.18 SSSI Units

Records within 2000m

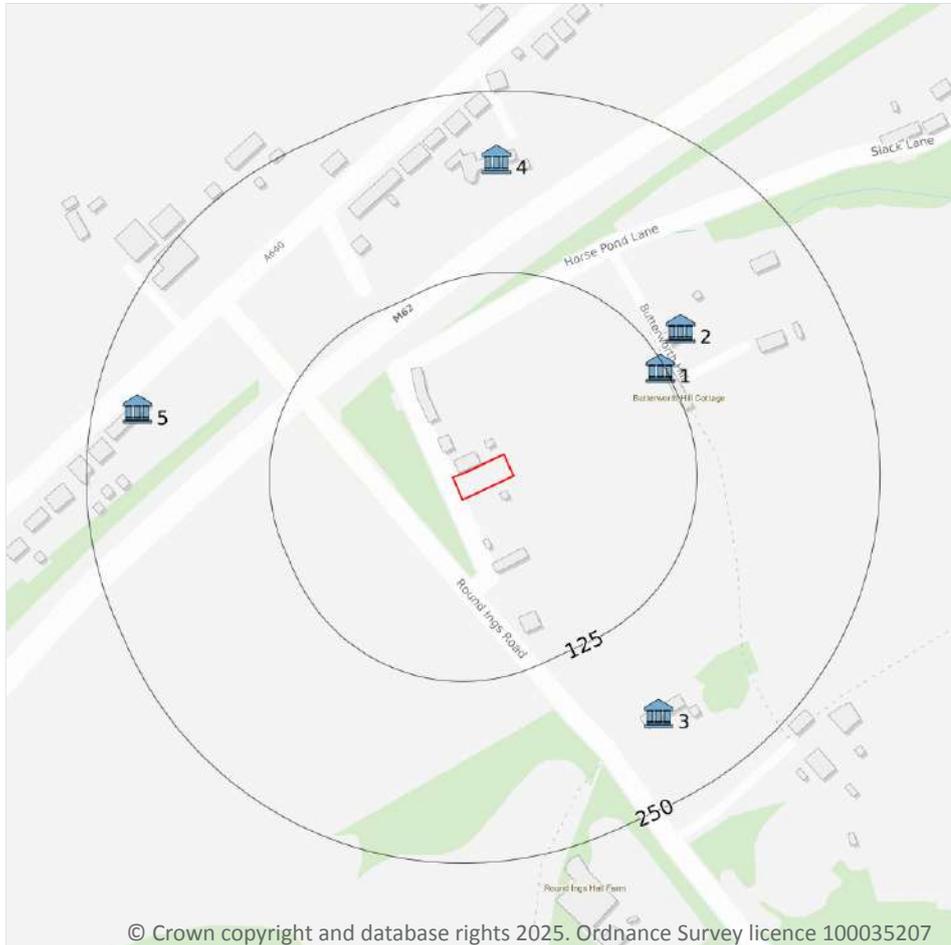
0

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.

*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

5

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.

Features are displayed on the Visual and cultural designations map on [page 56 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	122m NE	Barn At Butterworth Hill Farm	II	1213317	29/09/1978
2	148m NE	Butterworth Hill Farmhouse	II	1134198	29/09/1978
3	191m SE	21-27, Round Ings Road	II	1277331	29/09/1978
4	203m N	Nos 1-9 (Odd) Winter Hill	II	1432642	29/09/1978
5	220m W	945-949, New Hey Road	II	1287187	29/09/1978

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



## 11.5 Conservation Areas

Records within 250m

0

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.

*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

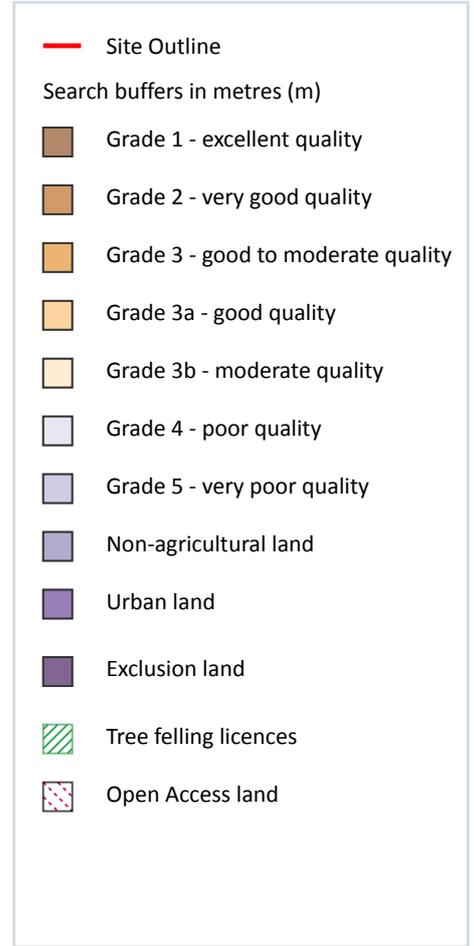
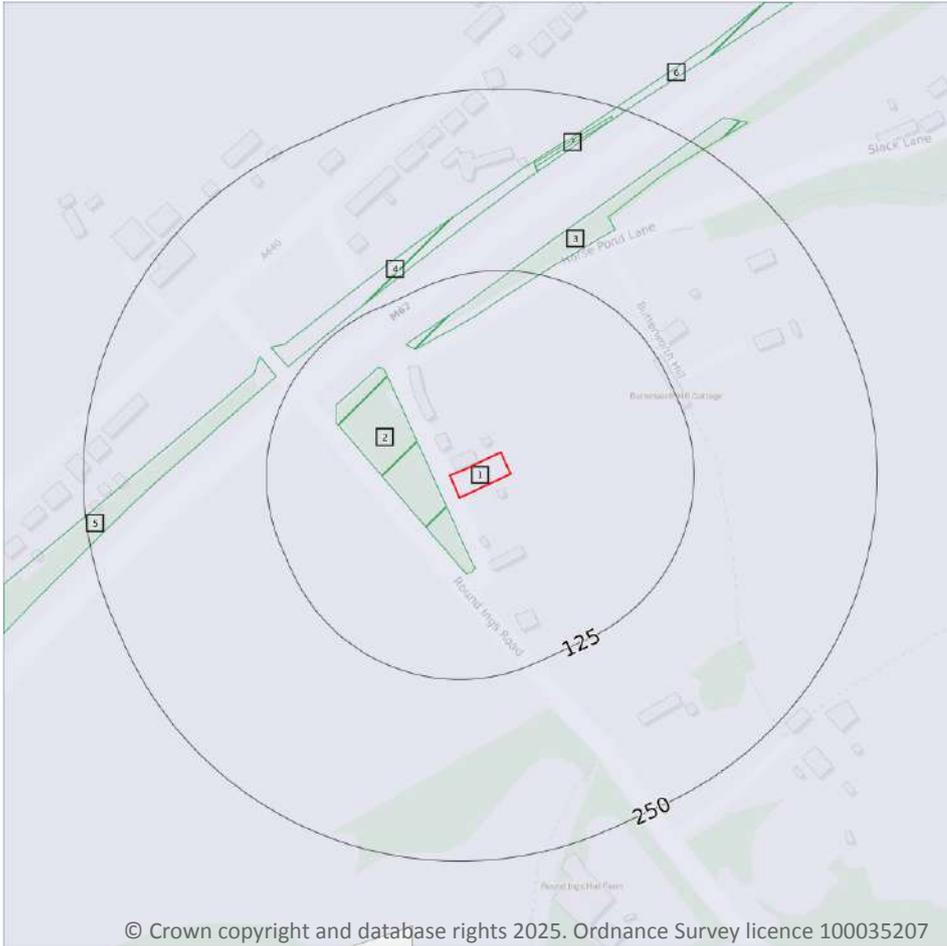
0

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



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### 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 59](#) >

ID	Location	Classification	Description
1	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

*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

6

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 59 >](#)

ID	Location	Description	Reference	Application date
2	11m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
3	89m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
4	128m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
5	137m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
6	195m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-
7	198m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-

*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

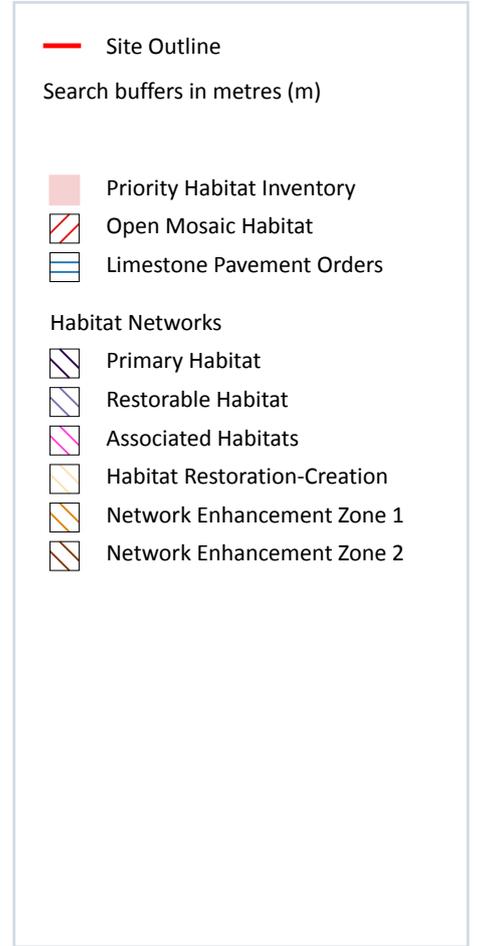
0

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



### 13.1 Priority Habitat Inventory

Records within 250m

2

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 62](#) >

ID	Location	Main Habitat	Other habitats
A	204m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	207m NE	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

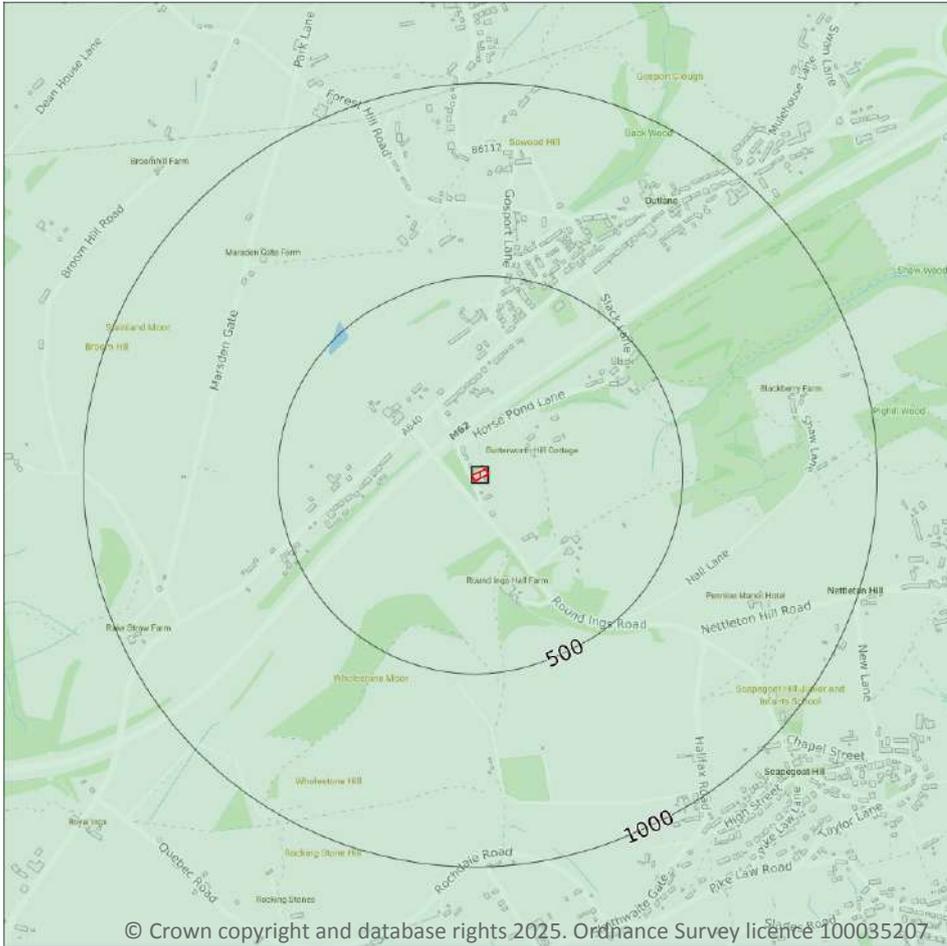
0

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

1

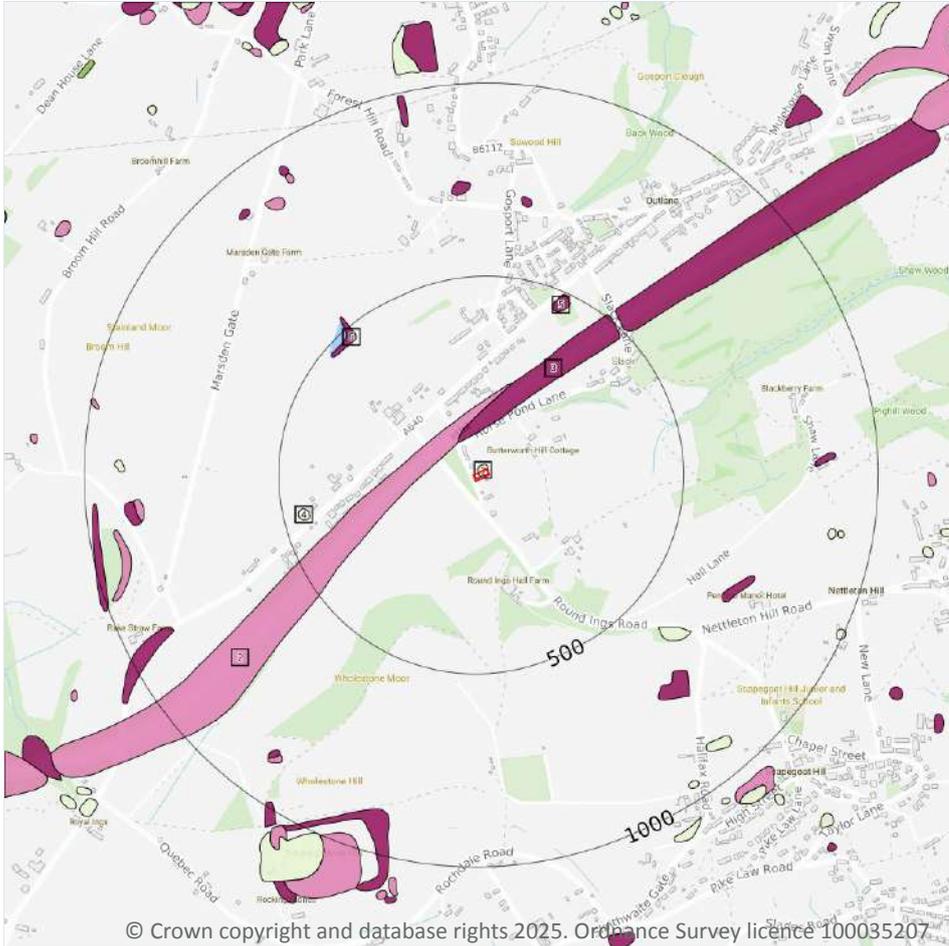
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 64](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SE01NE

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

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### 14.2 Artificial and made ground (10k)

Records within 500m

6

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 65](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	WMGR-ARTDP	Infilled Ground	Artificial Deposit
2	88m NW	WGR-VOID	Worked Ground (Undivided)	Void
3	92m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	433m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit

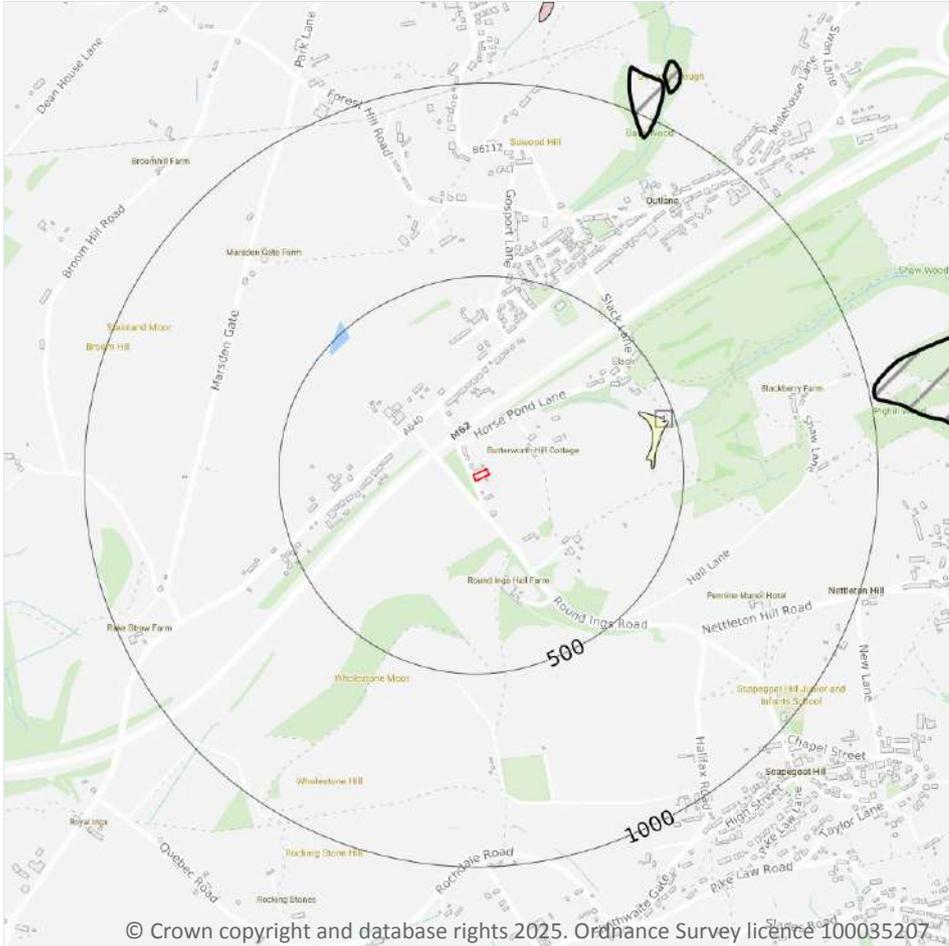


ID	Location	LEX Code	Description	Rock description
5	445m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	464m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (10k)
- Superficial geology (10k)  
Please see table for more details.

### 14.3 Superficial geology (10k)

#### Records within 500m

1

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.

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 67](#) >

ID	Location	LEX Code	Description	Rock description
1	407m E	ALV-XCSV	Alluvium - Clay, Sand And Gravel	Clay, Sand And Gravel

*This data is sourced from the British Geological Survey.*

## 14.4 Landslip (10k)

Records within 500m

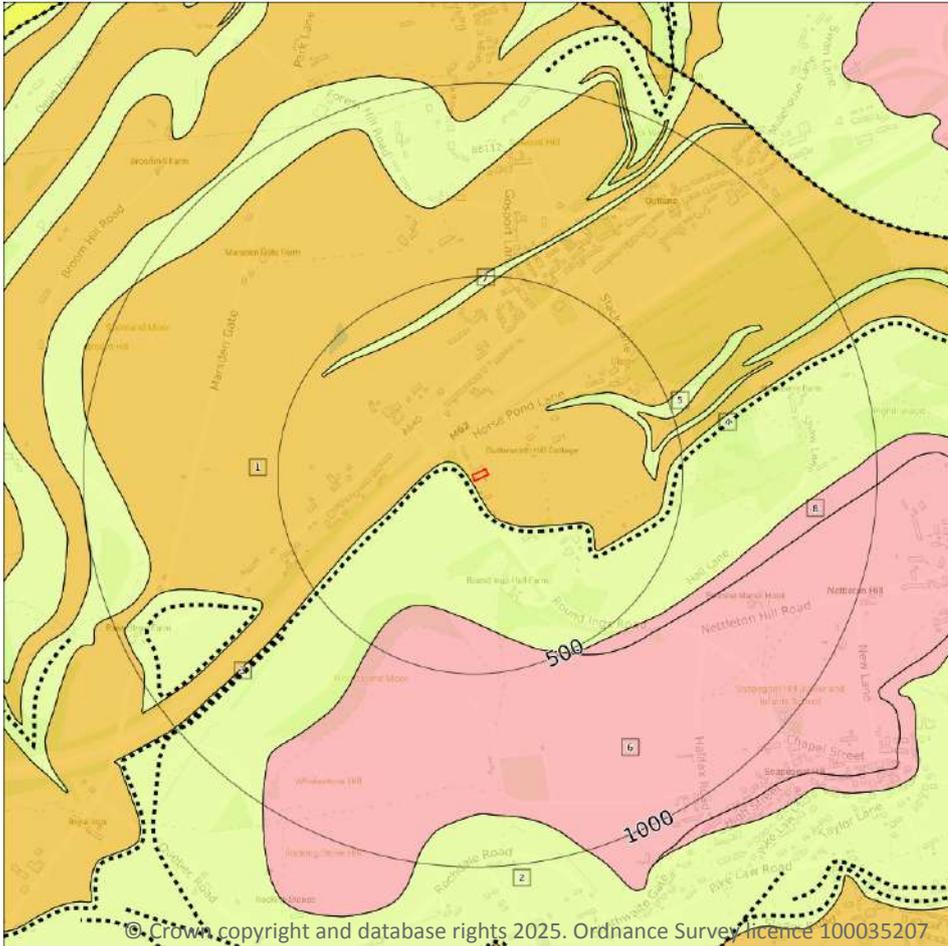
0

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

6

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 69](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	HDW-SDST	Huddersfield White Rock - Sandstone	Marsdenian Sub-age
2	8m SW	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
5	219m NE	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age

ID	Location	LEX Code	Description	Rock age
6	343m S	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
7	397m NW	MG-MDSS	Millstone Grit Group [see Also Migr] - Mudstone, Siltstone And Sandstone	Namurian Age
8	500m SE	RF-SDST	Rough Rock Flags - Sandstone	Yeadonian Sub-age

*This data is sourced from the British Geological Survey.*

## 14.6 Bedrock faults and other linear features (10k)

**Records within 500m**

**2**

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.

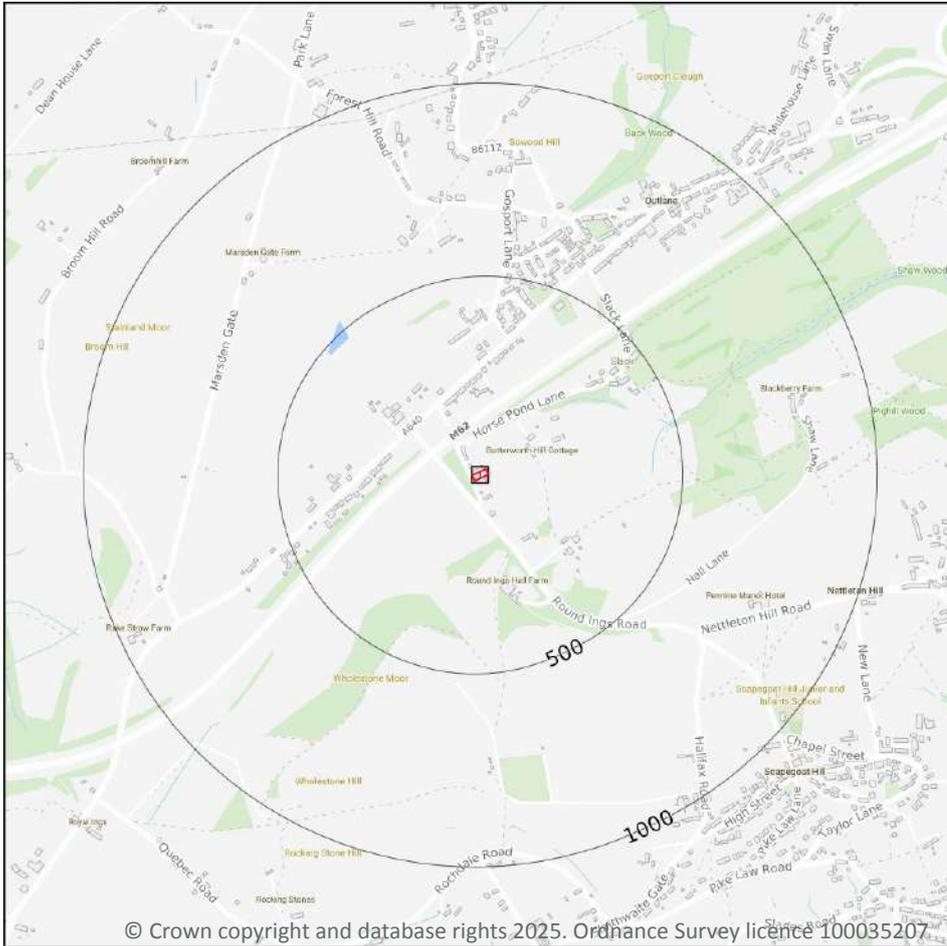
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 69 >](#)

ID	Location	Category	Description
3	21m SW	ROCK	Coal seam, inferred
4	198m SE	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.

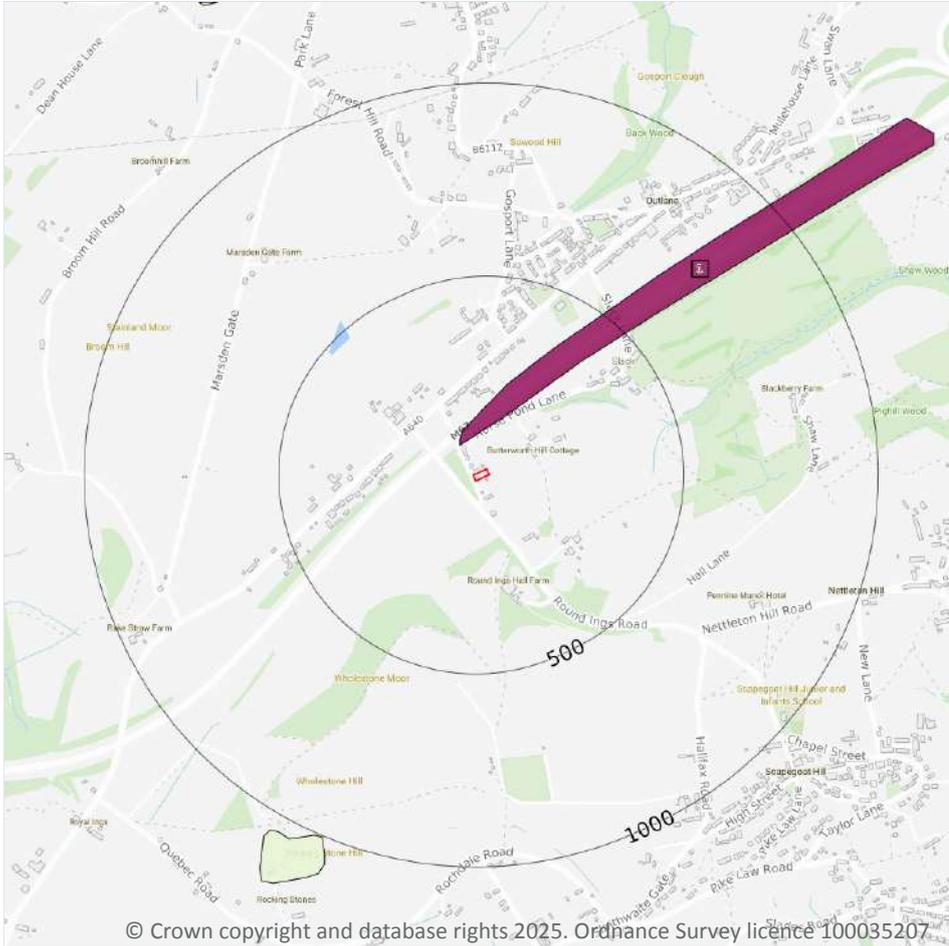
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 71](#) >

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

1

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 72](#) >

ID	Location	LEX Code	Description	Rock description
1	85m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

### 15.3 Artificial ground 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 artificial 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 - 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

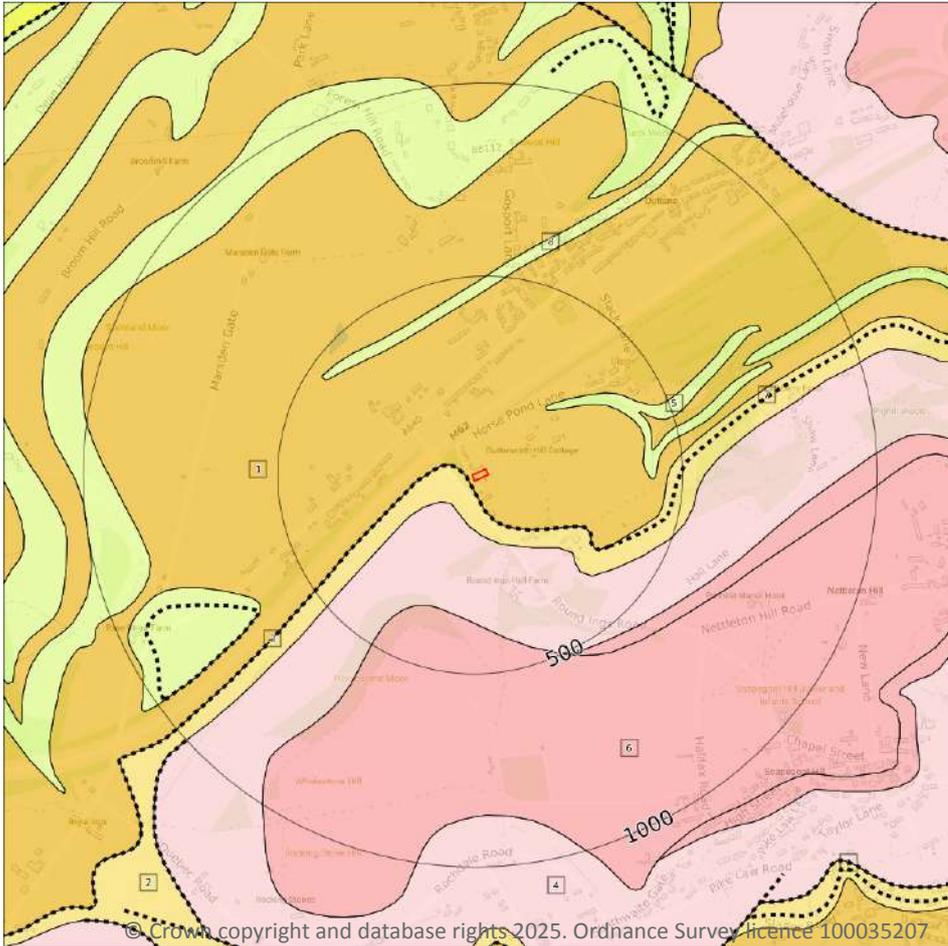
0

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

6

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 75 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	HDW-SDST	HUDDERSFIELD WHITE ROCK - SANDSTONE	NAMURIAN
2	13m SW	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
4	85m SW	ROSSE-MDSI	ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN

ID	Location	LEX Code	Description	Rock age
5	218m NE	MG-MDSS	MILLSTONE GRIT GROUP [SEE ALSO MIGR] - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN
6	342m S	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN
8	391m NW	MG-MDSS	MILLSTONE GRIT GROUP [SEE ALSO MIGR] - MUDSTONE, SILTSTONE AND SANDSTONE	NAMURIAN

This data is sourced from the British Geological Survey.

## 15.9 Bedrock permeability (50k)

<b>Records within 50m</b>	<b>2</b>
---------------------------	----------

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
<b>On site</b>	<b>Fracture</b>	<b>High</b>	<b>Moderate</b>
13m SW	Fracture	Low	Low

This data is sourced from the British Geological Survey.

## 15.10 Bedrock faults and other linear features (50k)

<b>Records within 500m</b>	<b>2</b>
----------------------------	----------

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.

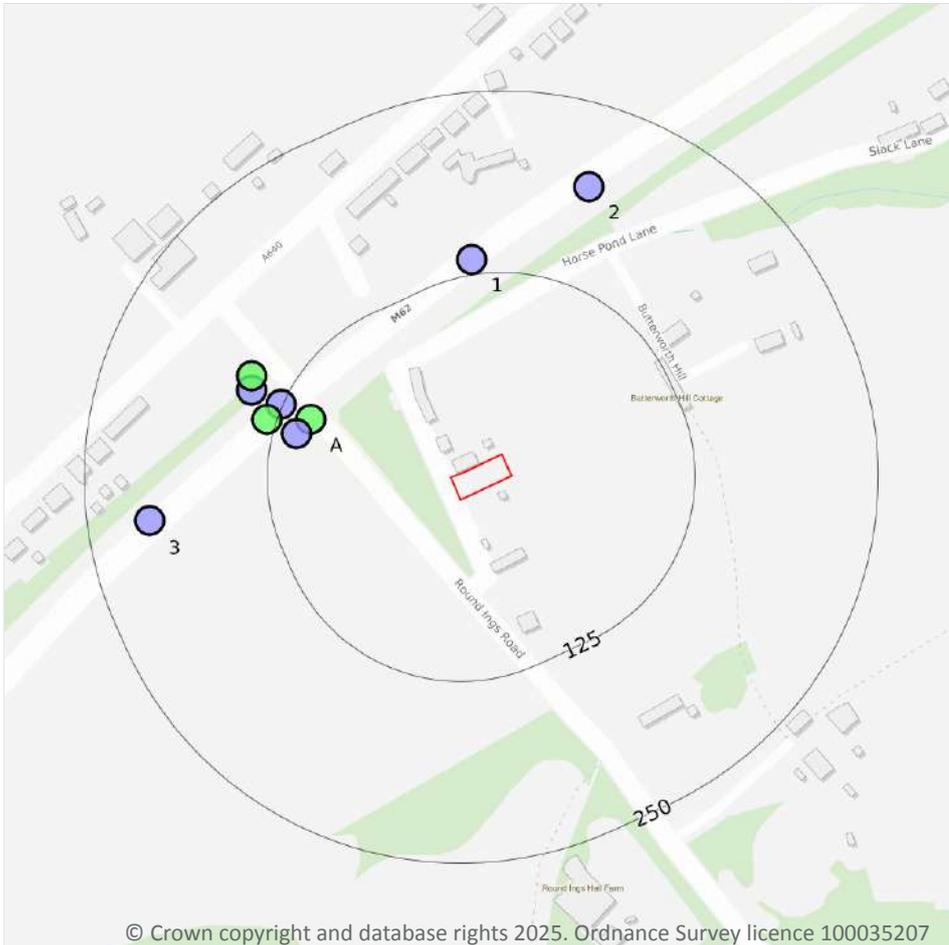
Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 75 >](#)

ID	Location	Category	Description
3	13m SW	ROCK	Coal seam, inferred
7	362m SE	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

9

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 77 >](#)

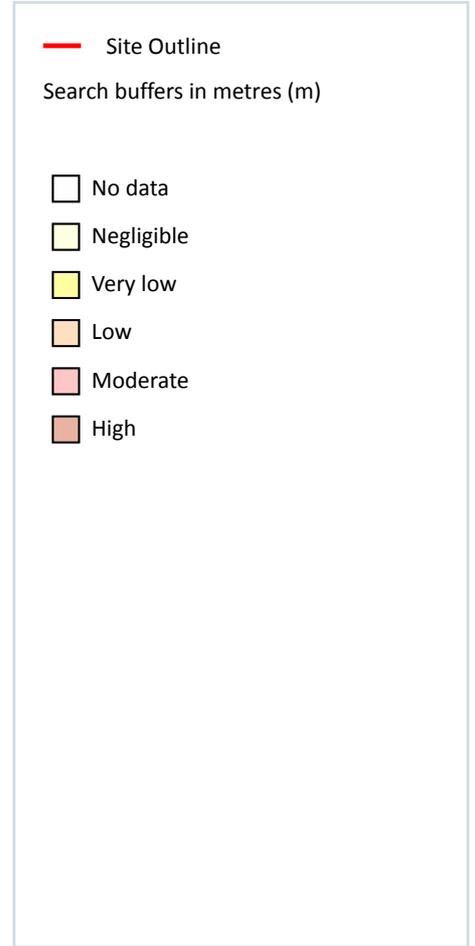
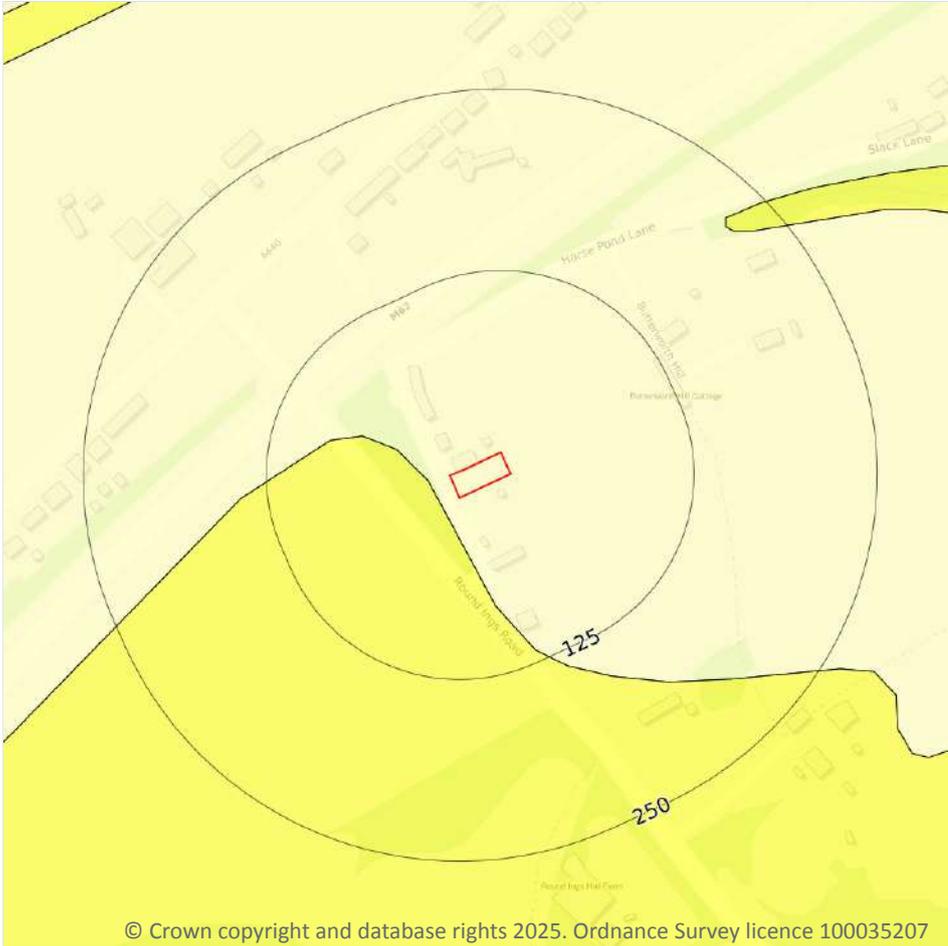
ID	Location	Grid reference	Name	Length	Confidential	Web link
A	104m NW	407880 417230	LANCASHIRE YORKSHIRE MWAY CONTRACT E 9	13.71	N	<a href="#">18572714</a> ↗
A	110m W	407870 417220	LANCASHIRE YORKSHIRE MWAY CONTRACT E 8	6.09	N	<a href="#">18572713</a> ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	126m NW	407860 417240	LANCASHIRE YORKSHIRE MWAY CONTRACT E 7	6.09	N	<a href="#">18572712</a> ↗
A	132m W	407850 417230	LANCASHIRE YORKSHIRE MWAY CONTRACT E 6	13.71	N	<a href="#">18572707</a> ↗
1	136m N	407990 417340	LANCASHIRE YORKSHIRE MWAY CONTRACT E 10	4.57	N	<a href="#">18572671</a> ↗
A	148m NW	407840 417250	LANCASHIRE YORKSHIRE MWAY CONTRACT E 4	6.09	N	<a href="#">18572705</a> ↗
A	153m NW	407840 417260	LANCASHIRE YORKSHIRE MWAY CONTRACT E 5	13.71	N	<a href="#">18572706</a> ↗
2	194m N	408070 417390	LANCASHIRE YORKSHIRE MWAY CONTRACT E 11	4.57	N	<a href="#">18572672</a> ↗
3	208m W	407770 417160	LANCASHIRE YORKSHIRE MWAY CONTRACT E 3	4.57	N	<a href="#">18572670</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

2

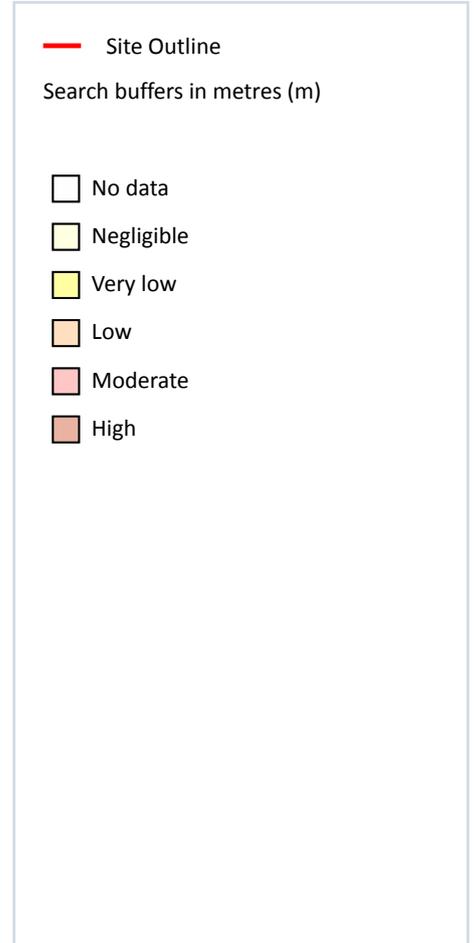
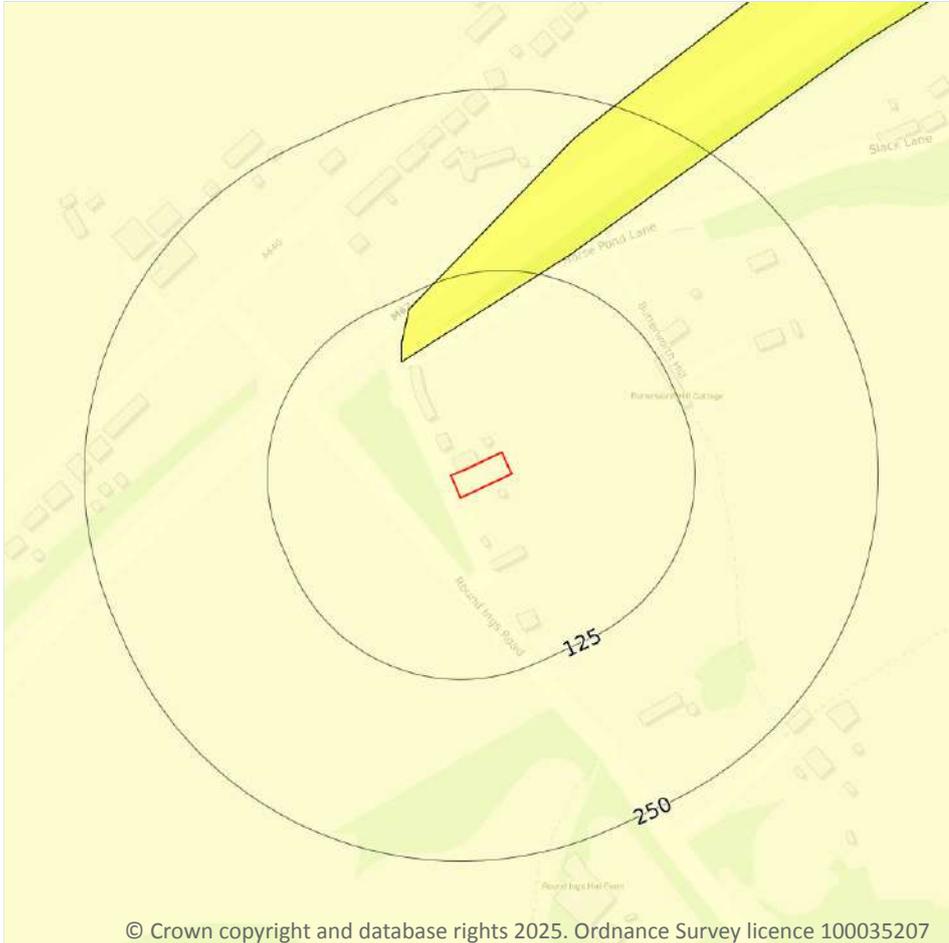
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 79 >](#)

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
13m SW	Very low	Ground conditions predominantly low plasticity.

*This data is sourced from the British Geological Survey.*

## Natural ground subsidence - Running sands



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### 17.2 Running sands

Records within 50m

1

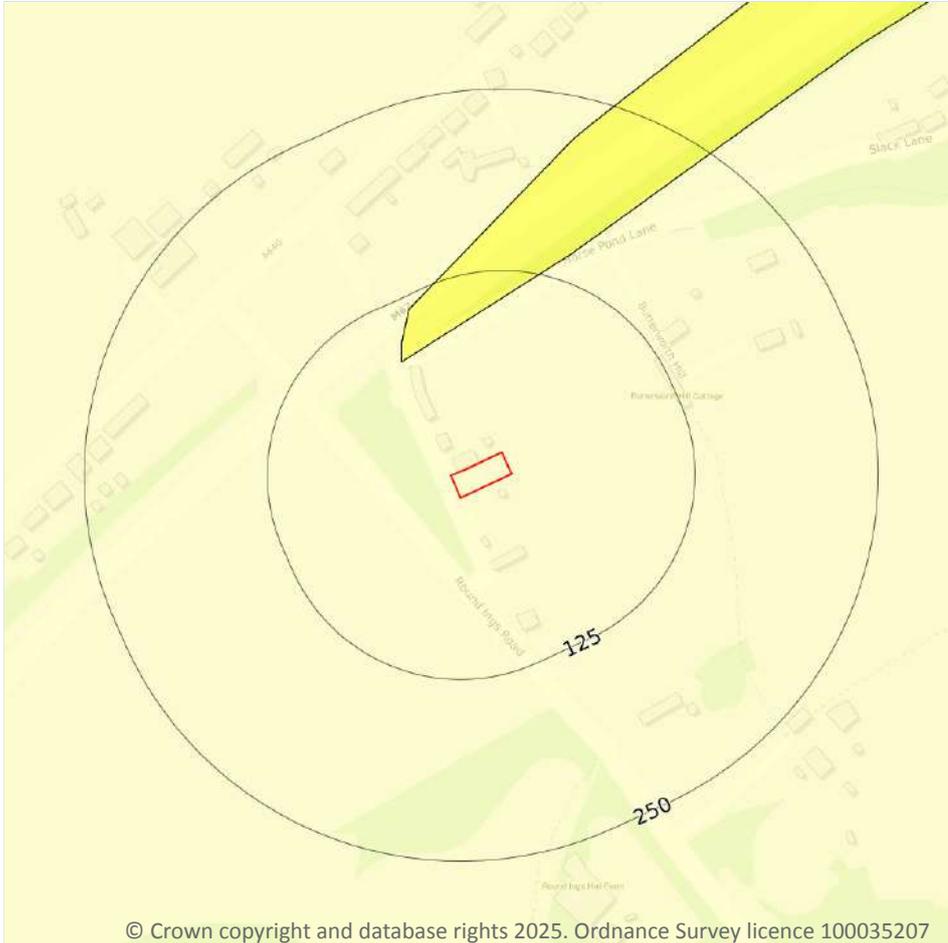
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on [page 80 >](#)

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.

*This data is sourced from the British Geological Survey.*

## Natural ground subsidence - Compressible deposits



**— Site Outline**

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

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### 17.3 Compressible deposits

**Records within 50m**

**1**

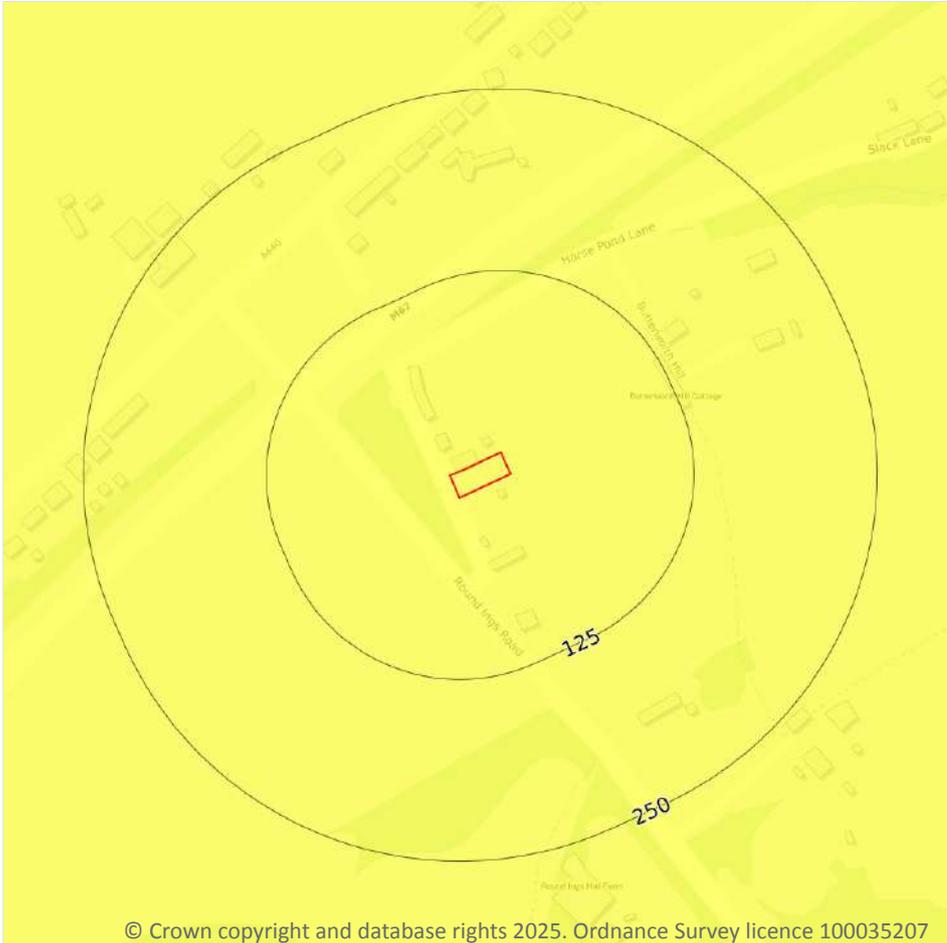
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 81](#) >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

*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

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### 17.4 Collapsible deposits

Records within 50m

1

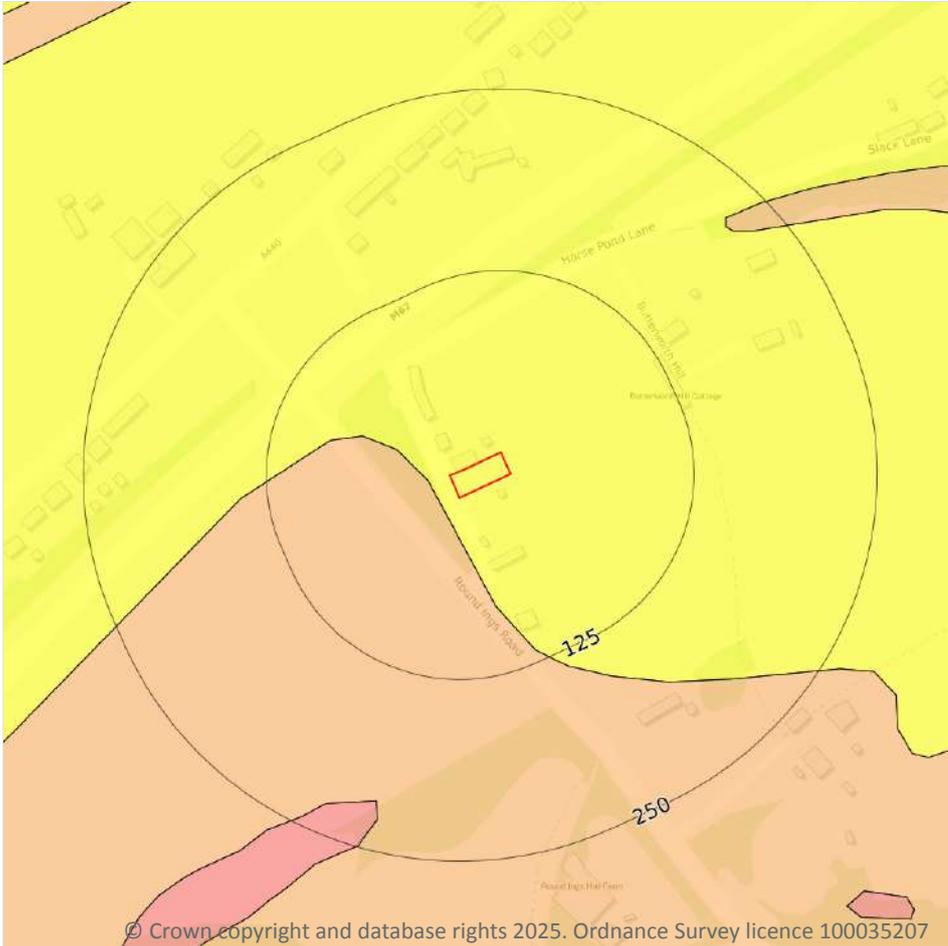
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 82 >](#)

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



— Site Outline  
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

### 17.5 Landslides

Records within 50m

2

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 83 >](#)

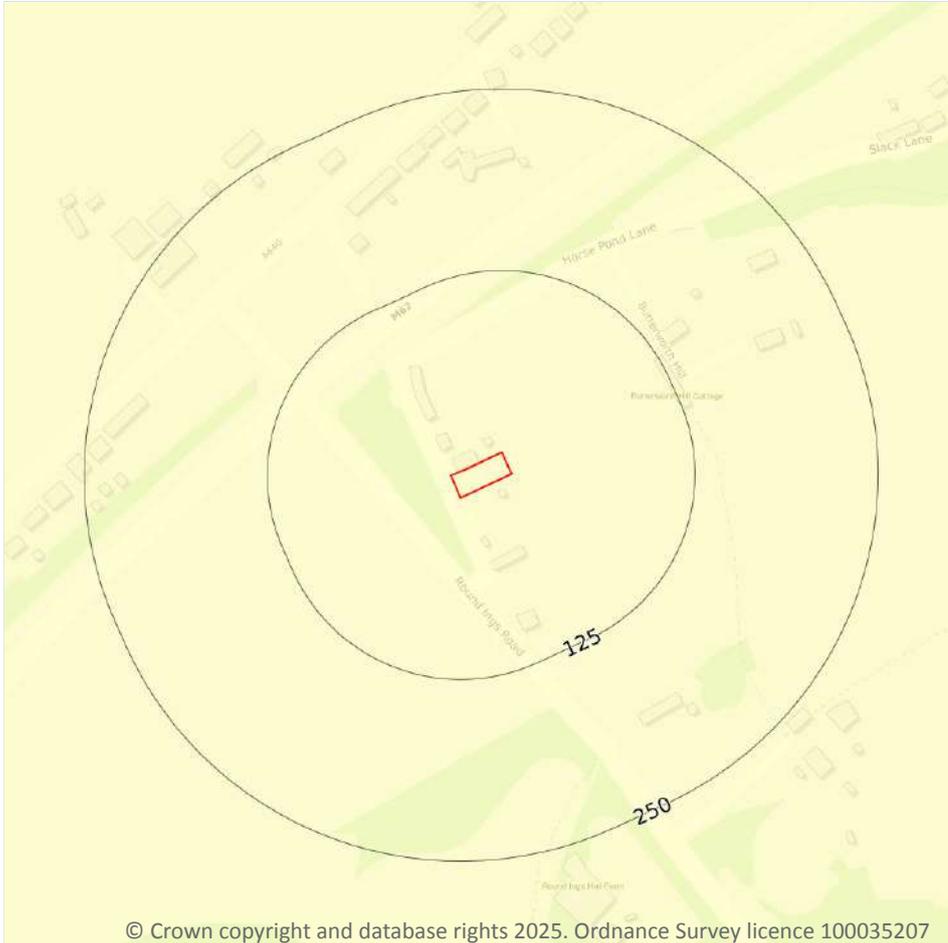
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
13m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Ground dissolution of soluble rocks



— Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

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### 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 85](#) >

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.*



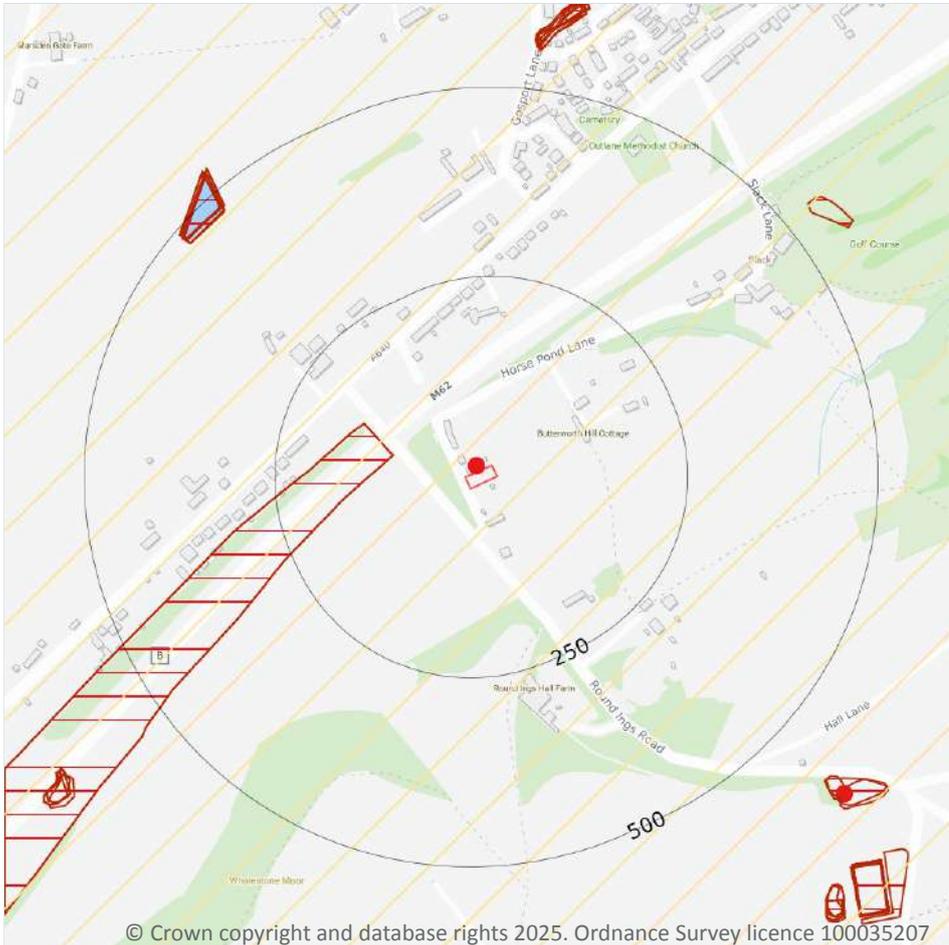
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## 18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining
- 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 BritPits

Records within 500m

1

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 and ground workings map on [page 87](#) >

ID	Location	Details	Description
A	8m NW	Name: Horsepond Address: Scapegoat Hill, Golcar, HUDDERSFIELD, West Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

*This data is sourced from the British Geological Survey.*

## 18.2 Surface ground workings

<b>Records within 250m</b>	<b>2</b>
----------------------------	----------

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 and ground workings map on [page 87 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
B	99m W	Cuttings	1993	1:10000
B	99m W	Cuttings	1978	1:10000

*This data is sourced from Ordnance Survey/Groundsure.*

## 18.3 Underground workings

<b>Records within 1000m</b>	<b>0</b>
-----------------------------	----------

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

*This data is sourced from Ordnance Survey/Groundsure.*

## 18.4 Underground mining extents

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

*This data is sourced from 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

1

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).

Features are displayed on the Mining and ground workings map on [page 87 >](#)

ID	Location	Name	Commodity	Class	Likelihood
A	On site	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

*This data is sourced from the British Geological Survey.*

## 18.7 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.*

## 18.8 The Coal Authority non-coal mining

Records within 500m

0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.



*This data is sourced from The Coal Authority.*

## 18.9 Researched mining

**Records within 500m**

**0**

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

*This data is sourced from Groundsure.*

## 18.10 Mining record office plans

**Records within 500m**

**0**

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

*This data is sourced from Groundsure.*

## 18.11 BGS mine plans

**Records within 500m**

**0**

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

*This data is sourced from Groundsure.*

## 18.12 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.*



### 18.13 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.*

### 18.14 Gypsum areas

Records on site

0

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

### 18.15 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*

### 18.16 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 Ground cavities and sinkholes

### 19.1 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.*

### 19.2 Mining cavities

Records within 1000m

0

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.

*This data is sourced from Stantec UK Ltd.*

### 19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

*This data is sourced from Groundsure.*

### 19.4 Historical incidents

Records within 500m

0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



*This data is sourced from Groundsure.*



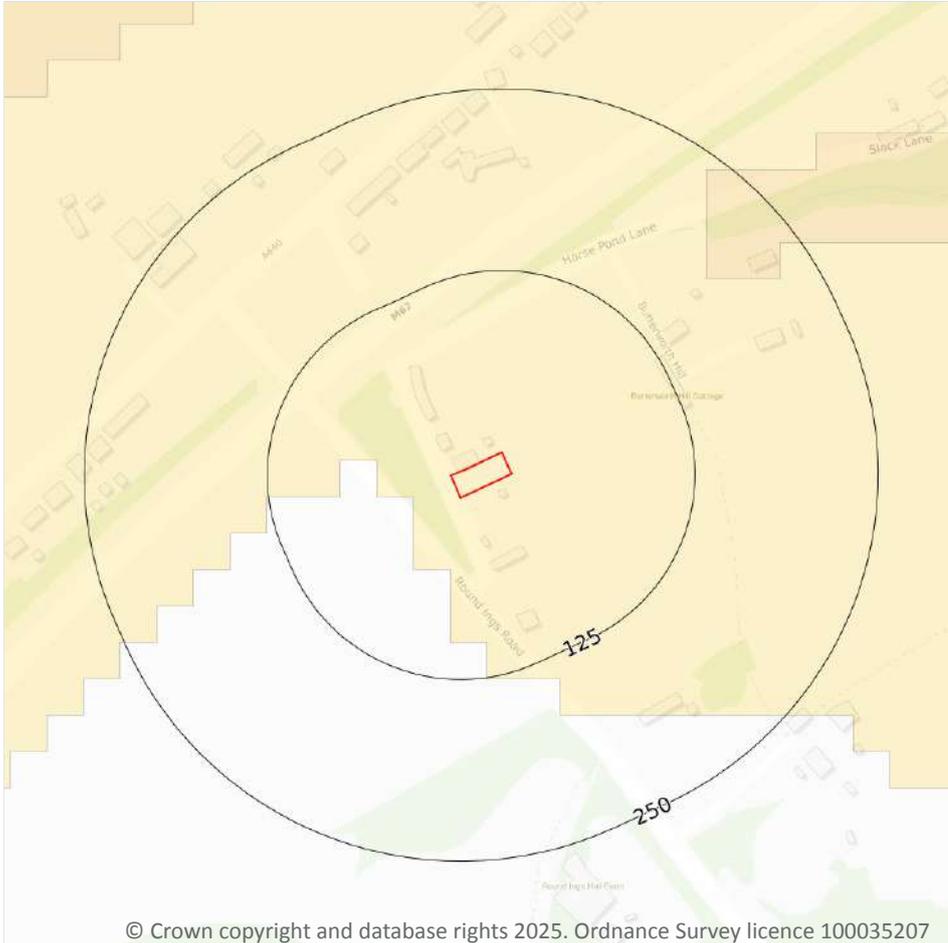
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## 20 Radon



— Site Outline  
Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

### 20.1 Radon

#### Records on site

1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 94 >](#)

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None



*This data is sourced from the British Geological Survey and UK Health Security Agency.*



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## 21 Soil chemistry

### 21.1 BGS Estimated Background Soil Chemistry

Records within 50m

4

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 km<sup>2</sup>. 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 km<sup>2</sup>; 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	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
13m SW	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

*This data is sourced from the British Geological Survey.*

### 21.2 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 km<sup>2</sup>).

*This data is sourced from the British Geological Survey.*



## 21.3 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 km<sup>2</sup>.

*This data is sourced from the British Geological Survey.*



## 22 Railway infrastructure and projects

### 22.1 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.*

### 22.2 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.*

### 22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

### 22.4 Historical railway and tunnel features

Records within 250m

0

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.

*This data is sourced from Ordnance Survey/Groundsure.*

### 22.5 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.*

## 22.6 Historical railways

**Records within 250m**

**0**

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

*This data is sourced from OpenStreetMap.*

## 22.7 Railways

**Records within 250m**

**0**

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

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 22.8 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.*

## 22.9 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> ↗.

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APPENDIX C  
HISTORICAL PLANS

**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

**Client Ref:** 8341  
**Report Ref:** GS-VBW-P9G-ZF4-A1D  
**Grid Ref:** 407996, 417190

**Map Name:** County Series

**Map date:** 1854

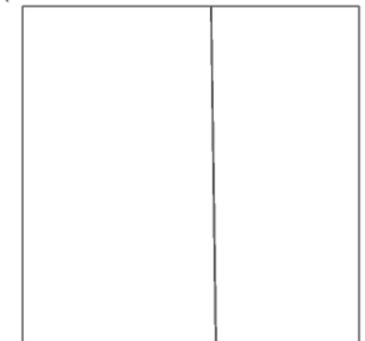
**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1849  
Revised N/A  
Edition 1854  
Copyright N/A  
Levelled N/A

Surveyed 1850  
Revised N/A  
Edition 1854  
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Levelled 1853

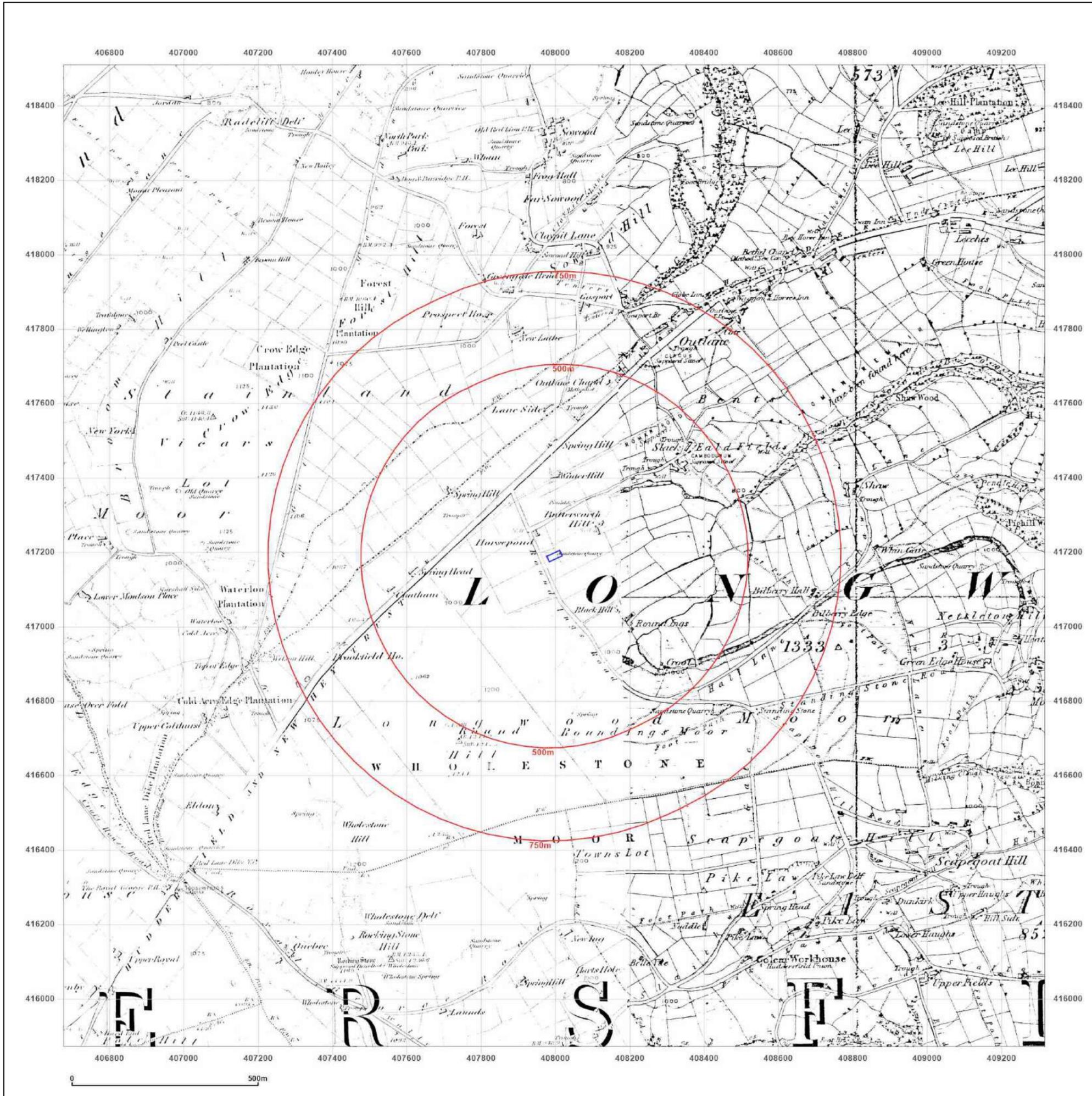


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E: [info@groundsure.com](mailto:info@groundsure.com)  
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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

**Client Ref:** 8341  
**Report Ref:** GS-VBW-P9G-ZF4-A1D  
**Grid Ref:** 407996, 417190

**Map Name:** County Series

**Map date:** 1890-1892

**Scale:** 1:10,560

**Printed at:** 1:10,560



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

Surveyed 1890  
Revised 1890  
Edition N/A  
Copyright N/A  
Levelled N/A

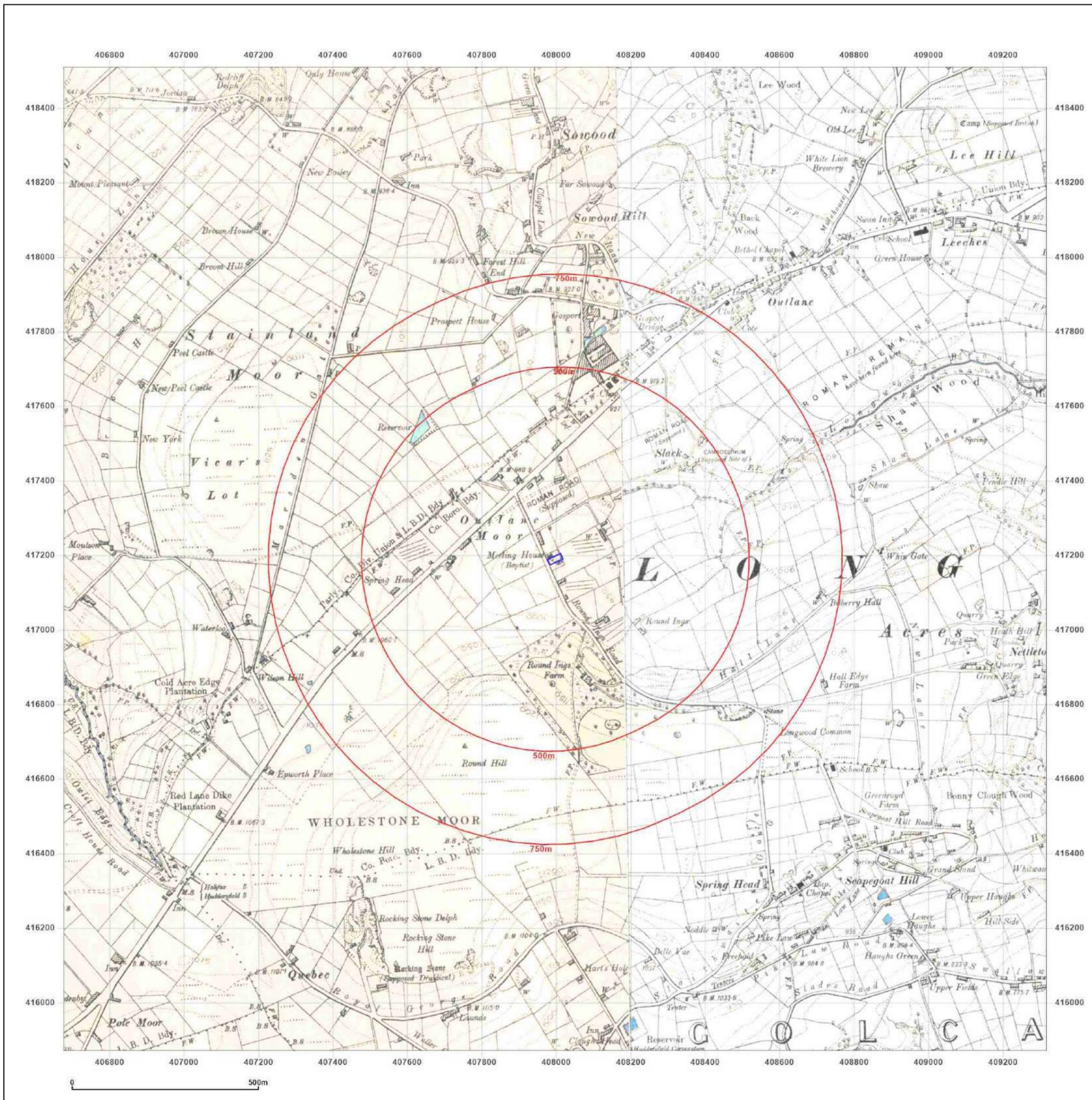


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

**Client Ref:** 8341  
**Report Ref:** GS-VBW-P9G-ZF4-A1D  
**Grid Ref:** 407996, 417190

**Map Name:** County Series

**Map date:** 1905-1908

**Scale:** 1:10,560

**Printed at:** 1:10,560



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Revised 1908  
Edition 1908  
Copyright N/A  
Levelled N/A

Surveyed 1890  
Revised 1905  
Edition N/A  
Copyright N/A  
Levelled N/A

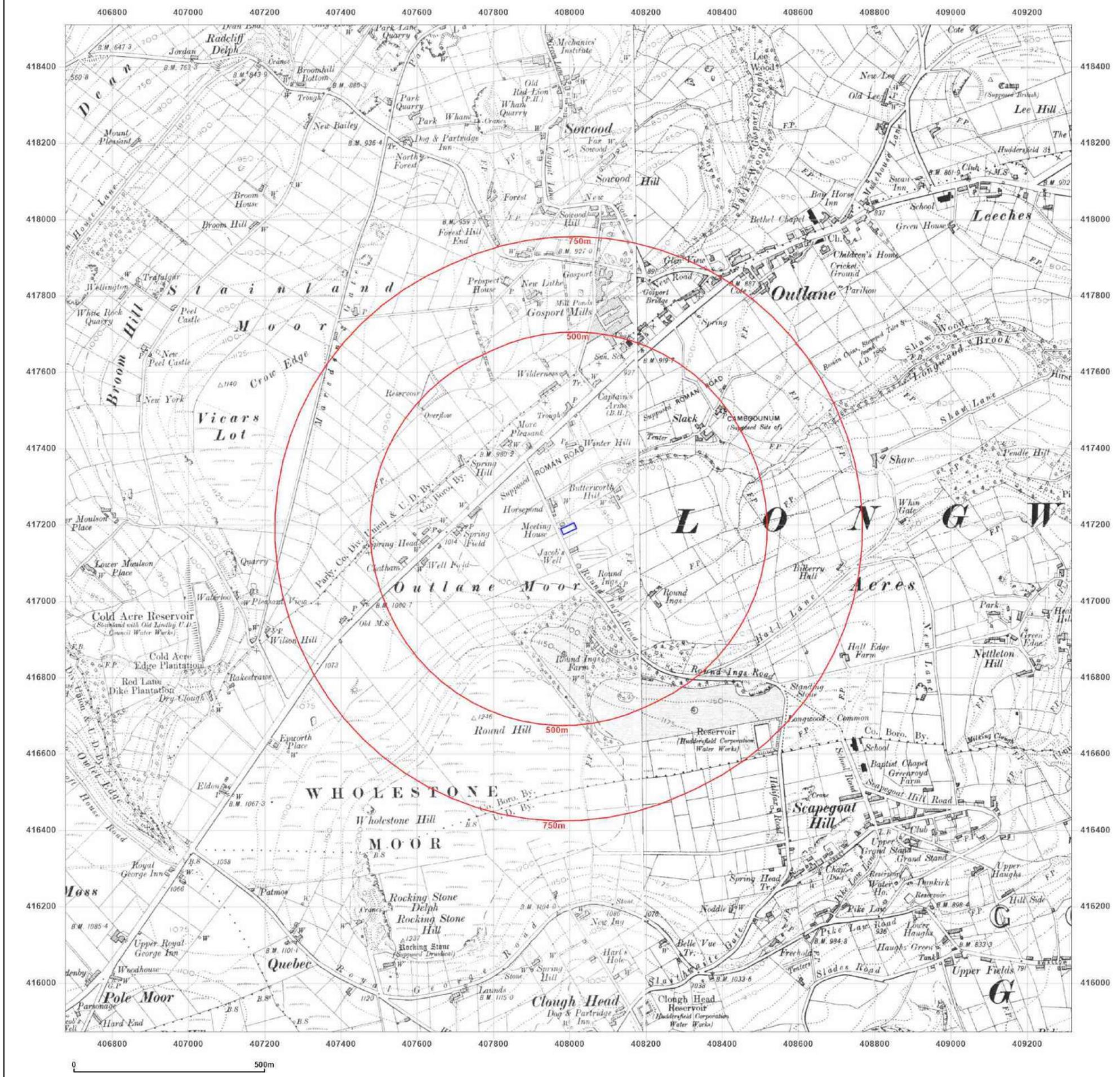


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

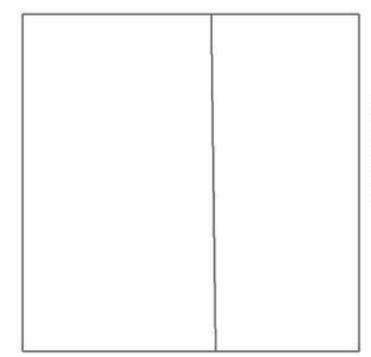
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**Grid Ref:** 407996, 417190

**Map Name:** County Series

**Map date:** 1930

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1849  
Revised 1930  
Edition N/A  
Copyright N/A  
Levelled N/A

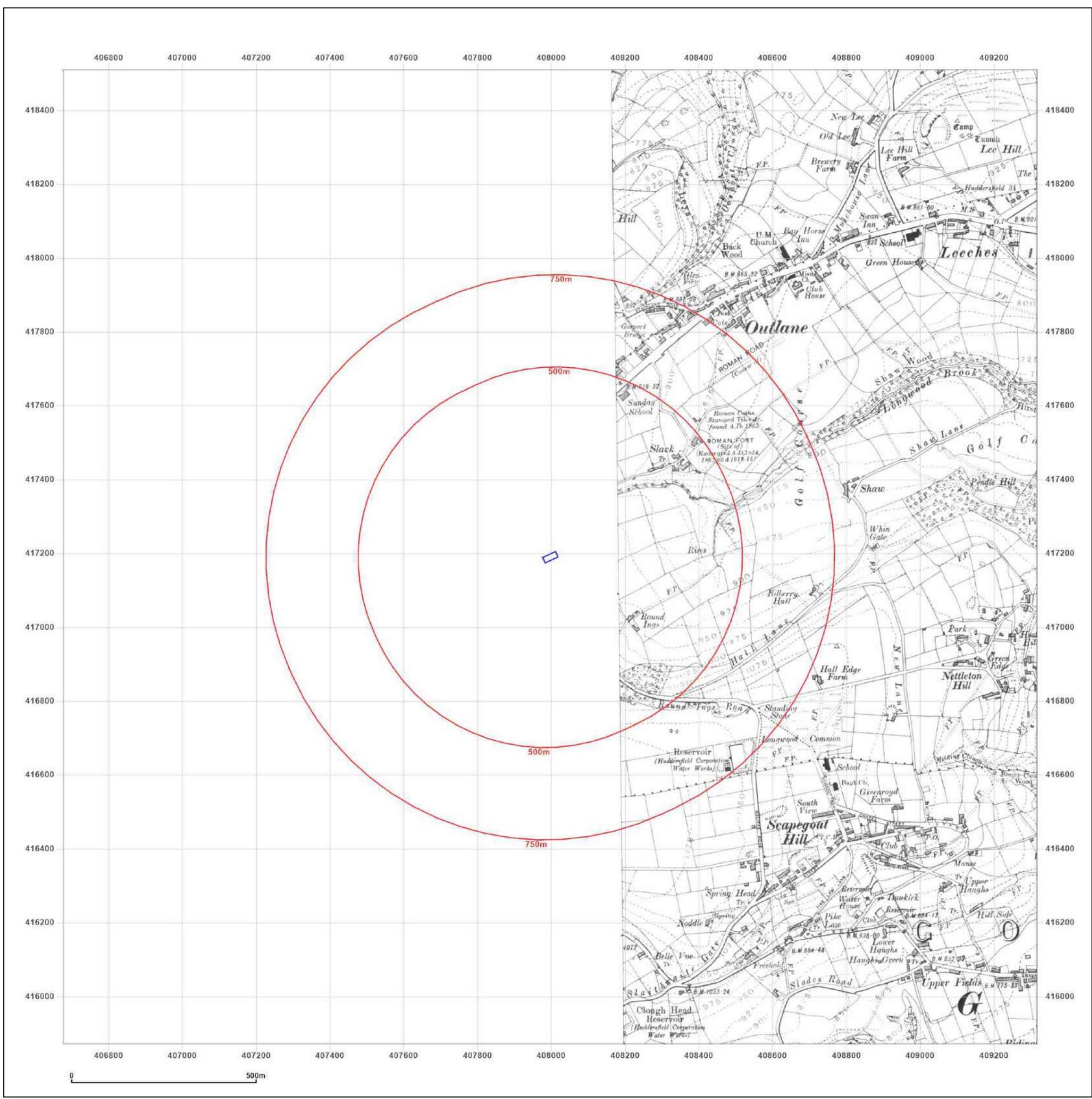


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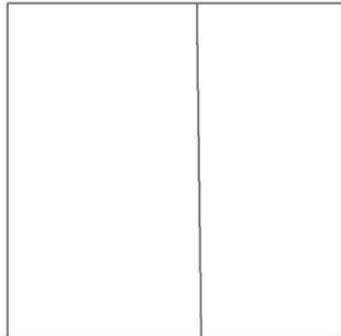


**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

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**Grid Ref:** 407996, 417190

**Map Name:** County Series  
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**Printed at:** 1:10,560

Surveyed 1849  
Revised 1938  
Edition 1938  
Copyright N/A  
Levelled N/A

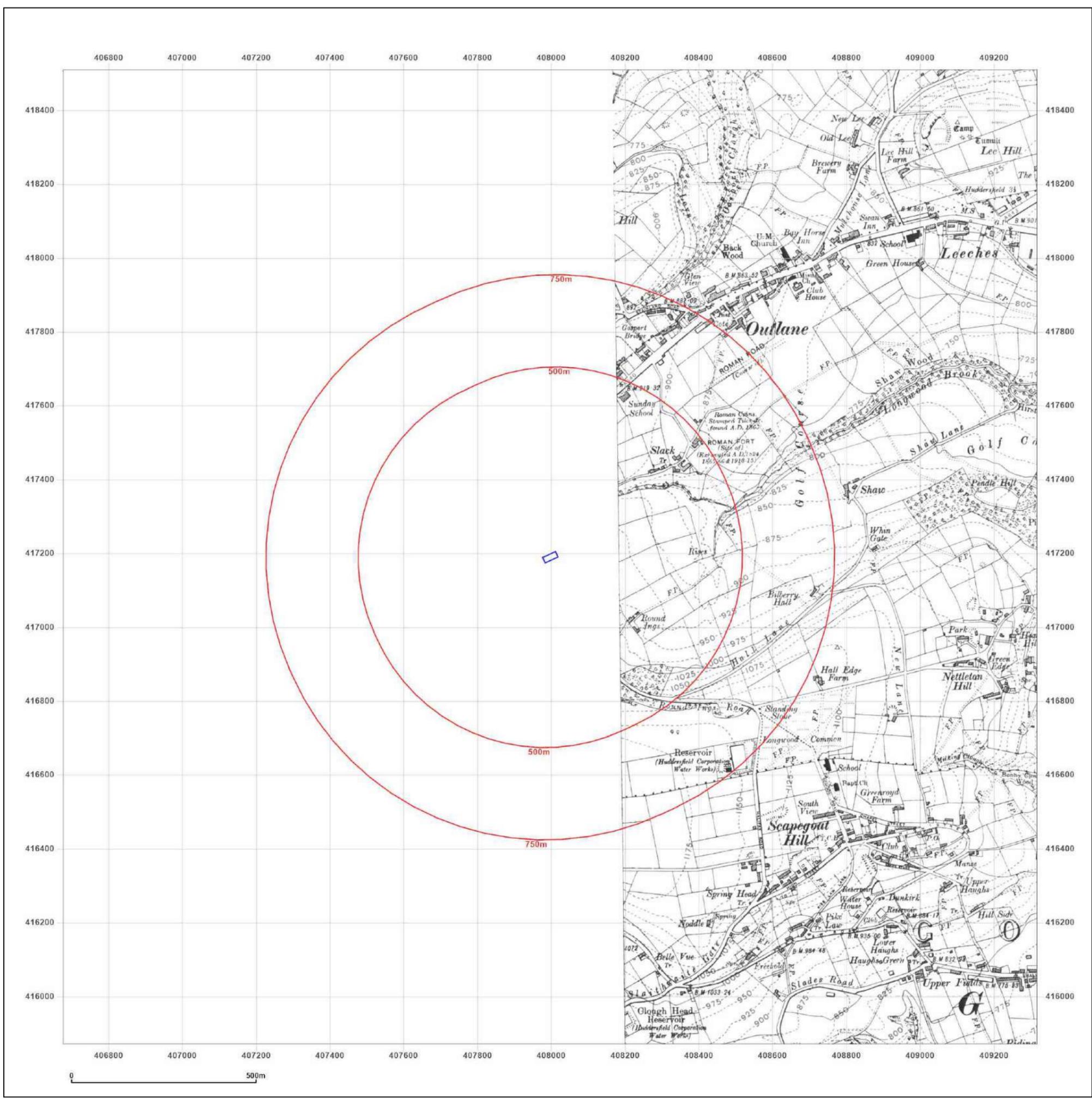


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

**Client Ref:** 8341  
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**Grid Ref:** 407996, 417190

**Map Name:** County Series

**Map date:** 1948

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1849  
Revised 1948  
Edition N/A  
Copyright N/A  
Levelled N/A

Surveyed 1849  
Revised 1948  
Edition N/A  
Copyright N/A  
Levelled N/A

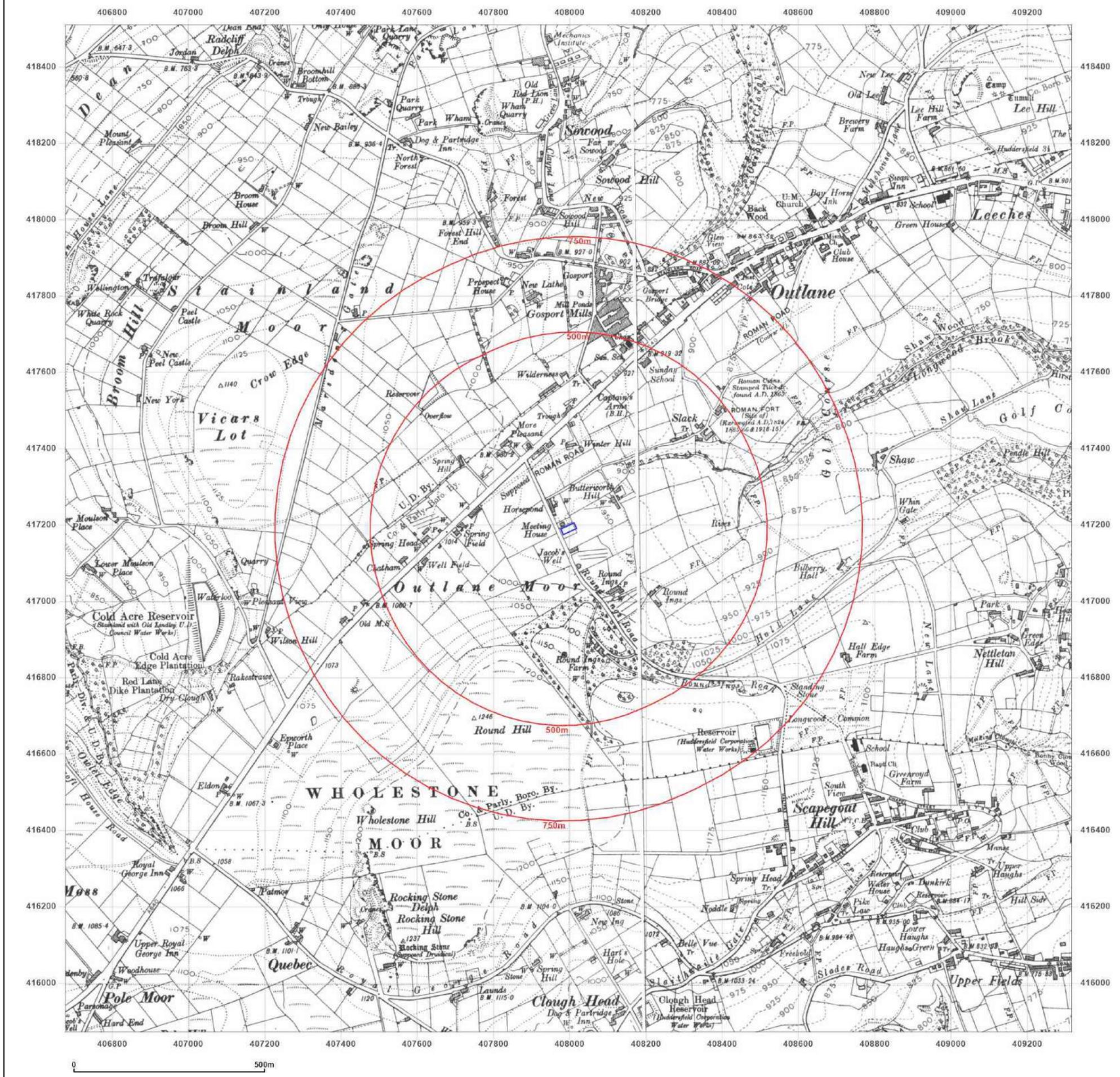


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

**Client Ref:** 8341  
**Report Ref:** GS-VBW-P9G-ZF4-A1D  
**Grid Ref:** 407996, 417190

**Map Name:** Provisional

**Map date:** 1955

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1951  
Revised 1955  
Edition N/A  
Copyright N/A  
Levelled N/A

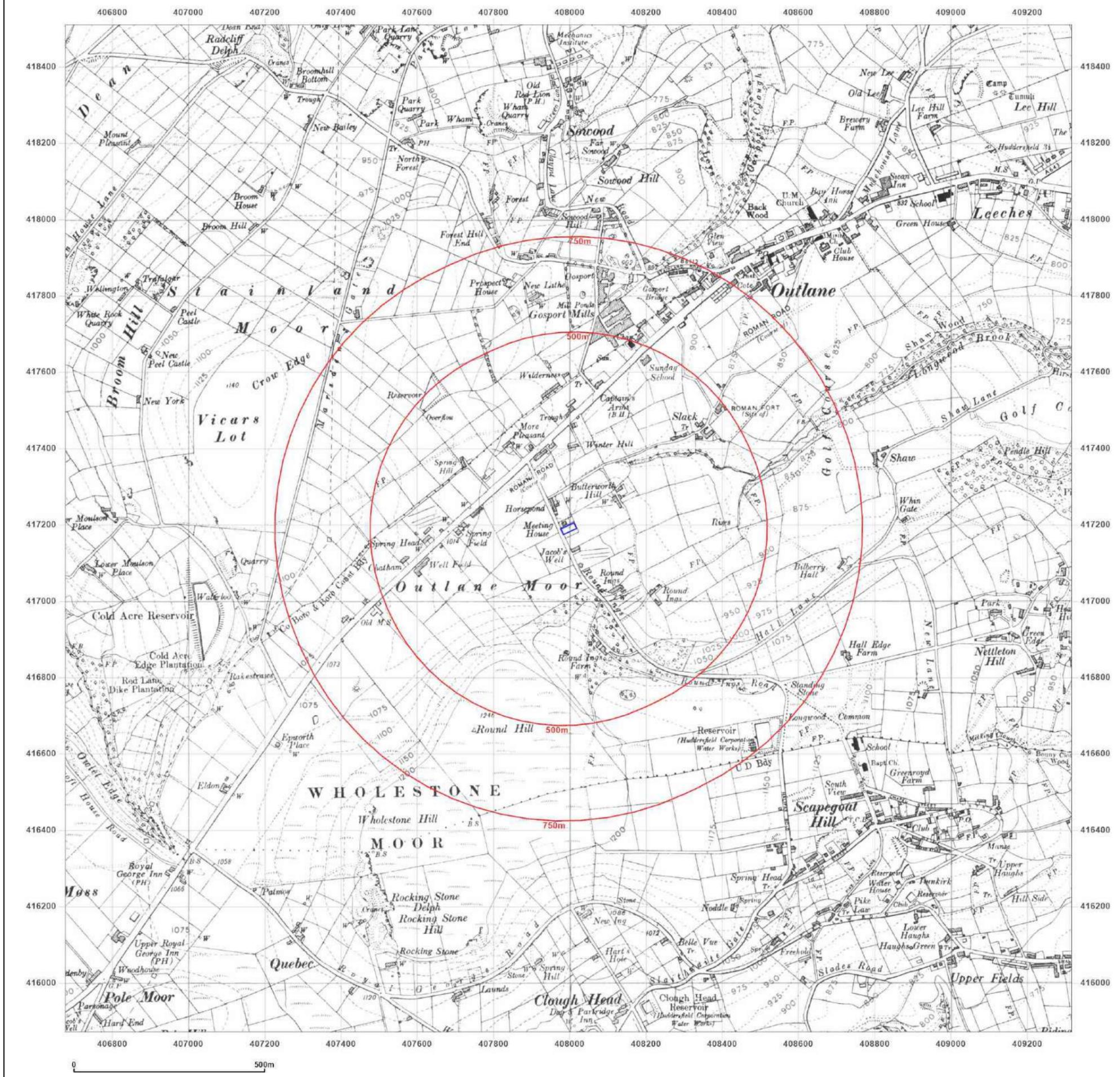


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

**Client Ref:** 8341  
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**Map Name:** Provisional

**Map date:** 1967

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**Printed at:** 1:10,560



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

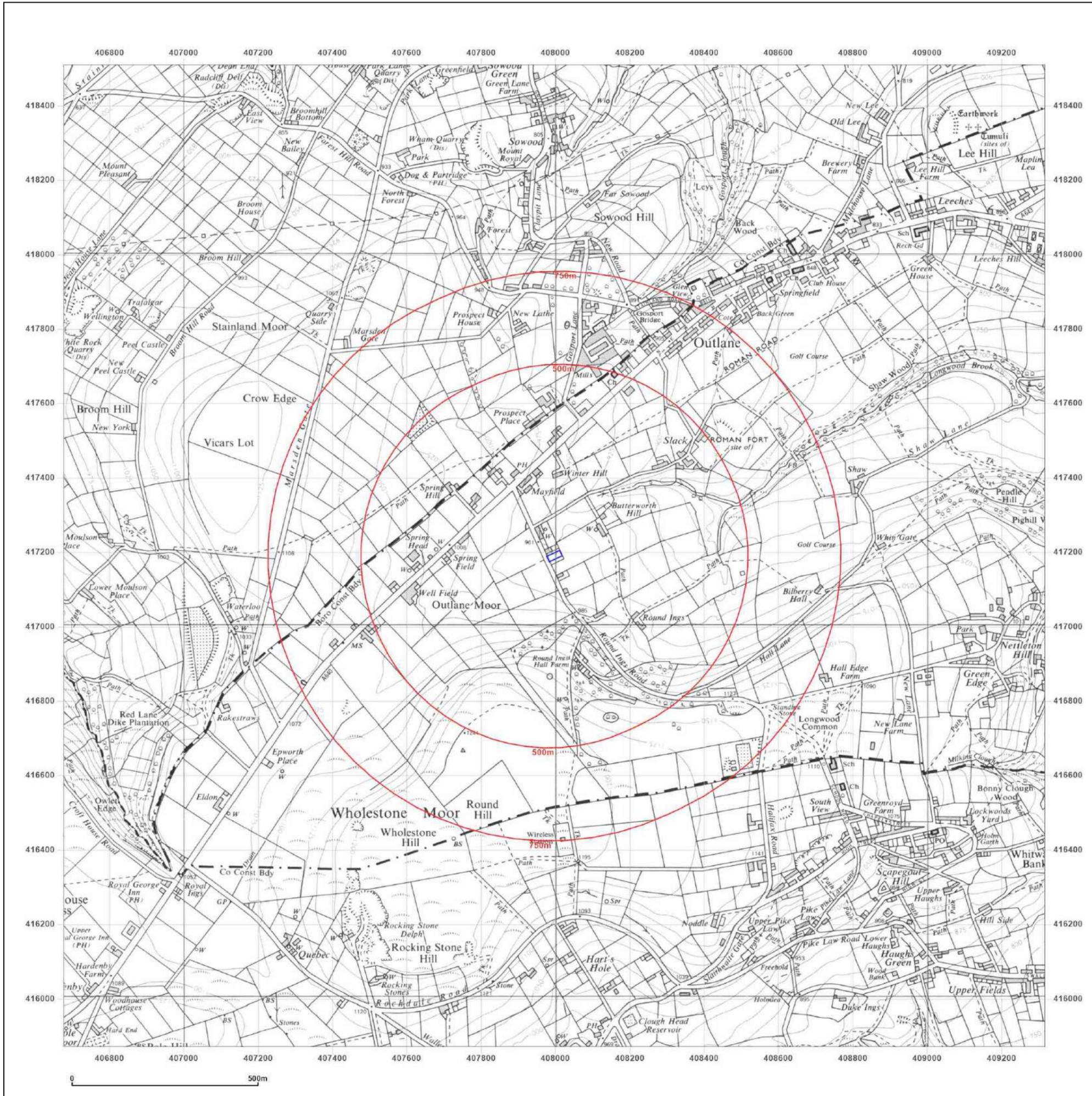


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

**Client Ref:** 8341  
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**Grid Ref:** 407996, 417190

**Map Name:** National Grid

**Map date:** 1978

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1977  
Revised 1978  
Edition N/A  
Copyright N/A  
Levelled N/A

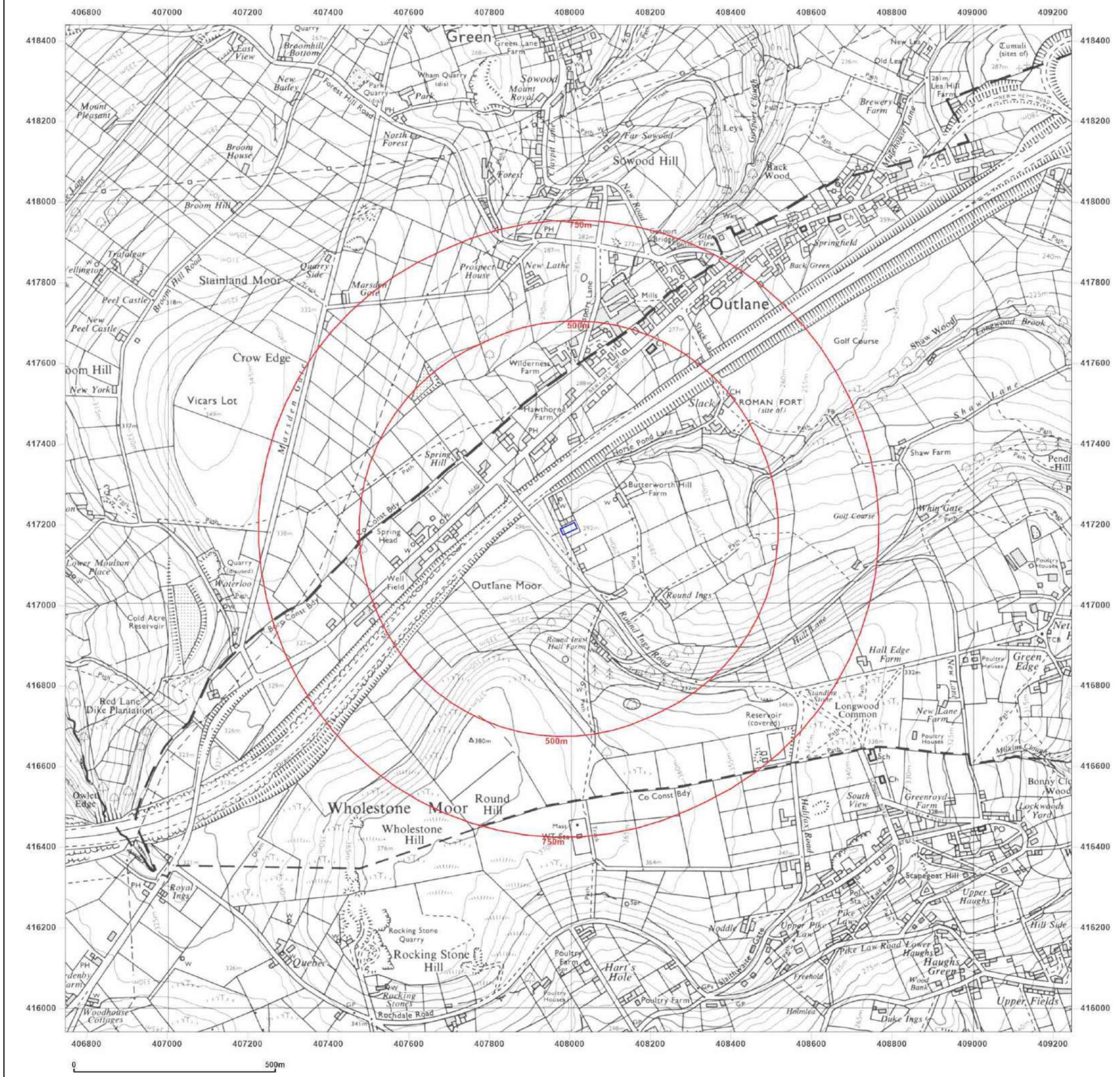


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

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**Grid Ref:** 407996, 417190

**Map Name:** National Grid

**Map date:** 1993

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1977  
Revised 1993  
Edition N/A  
Copyright N/A  
Levelled N/A

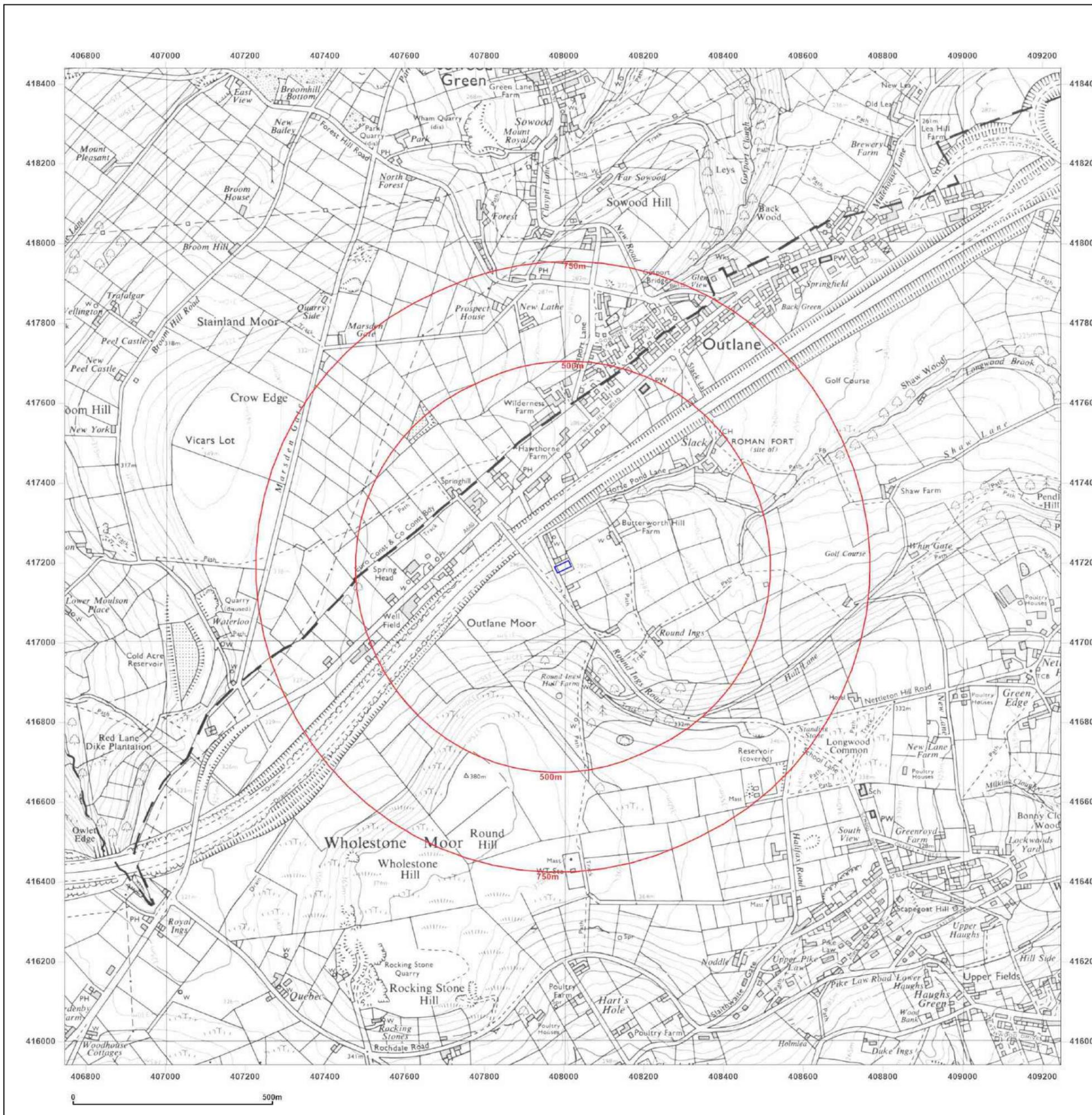


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

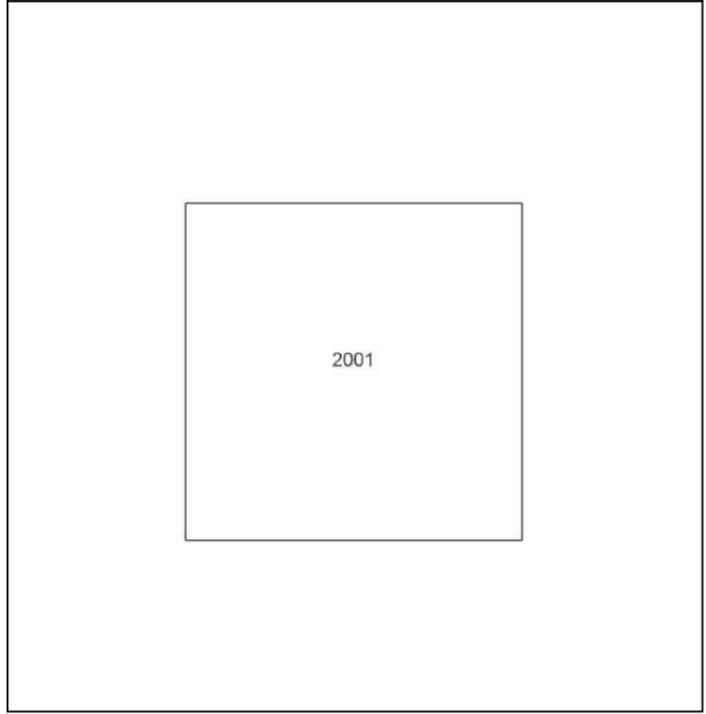
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**Map Name:** National Grid

**Map date:** 2001

**Scale:** 1:10,000

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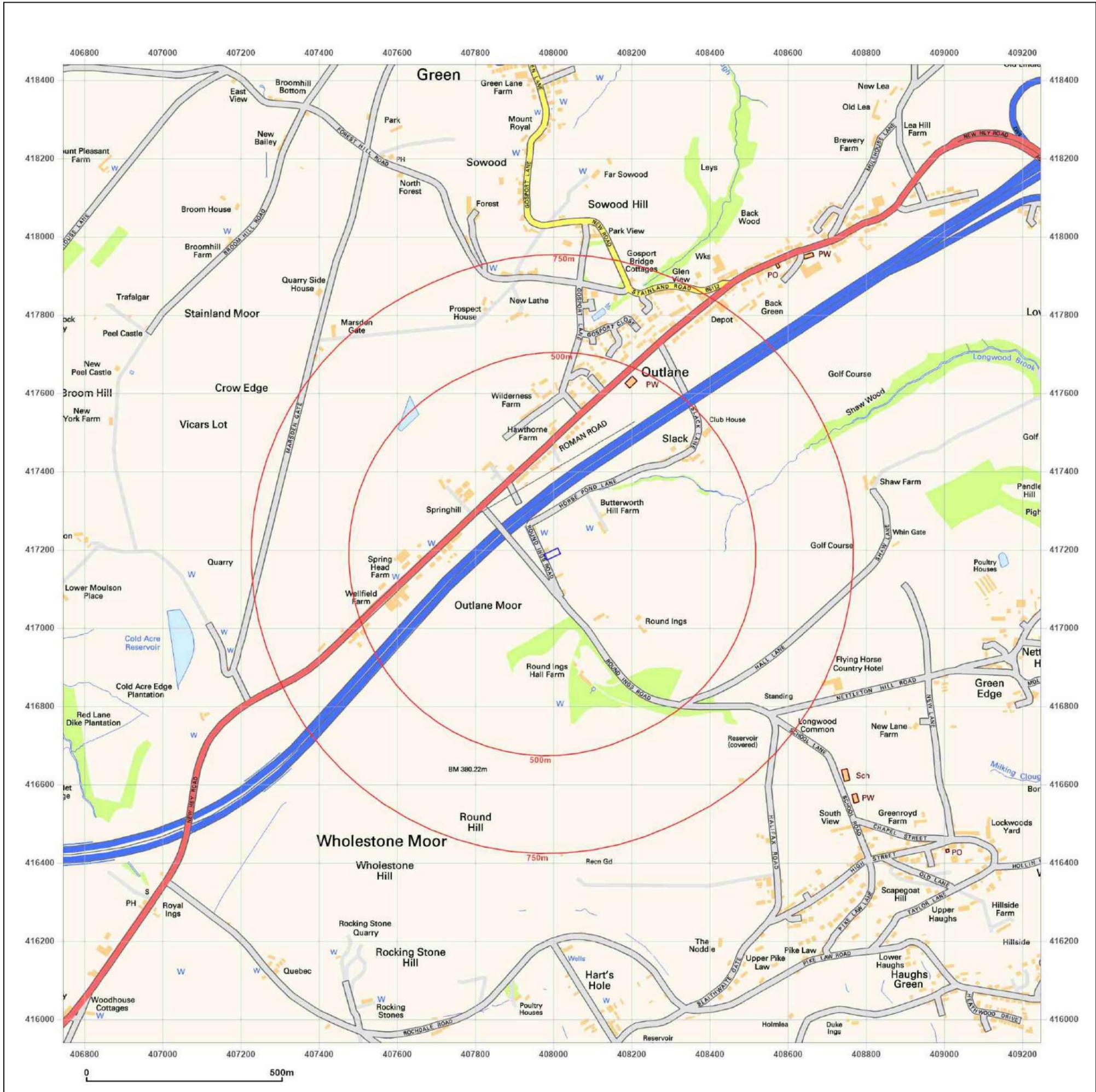


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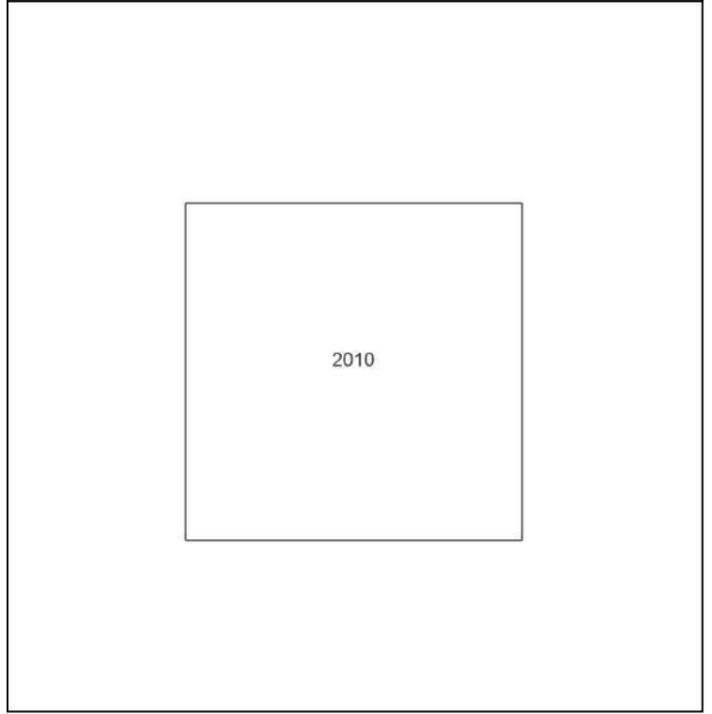
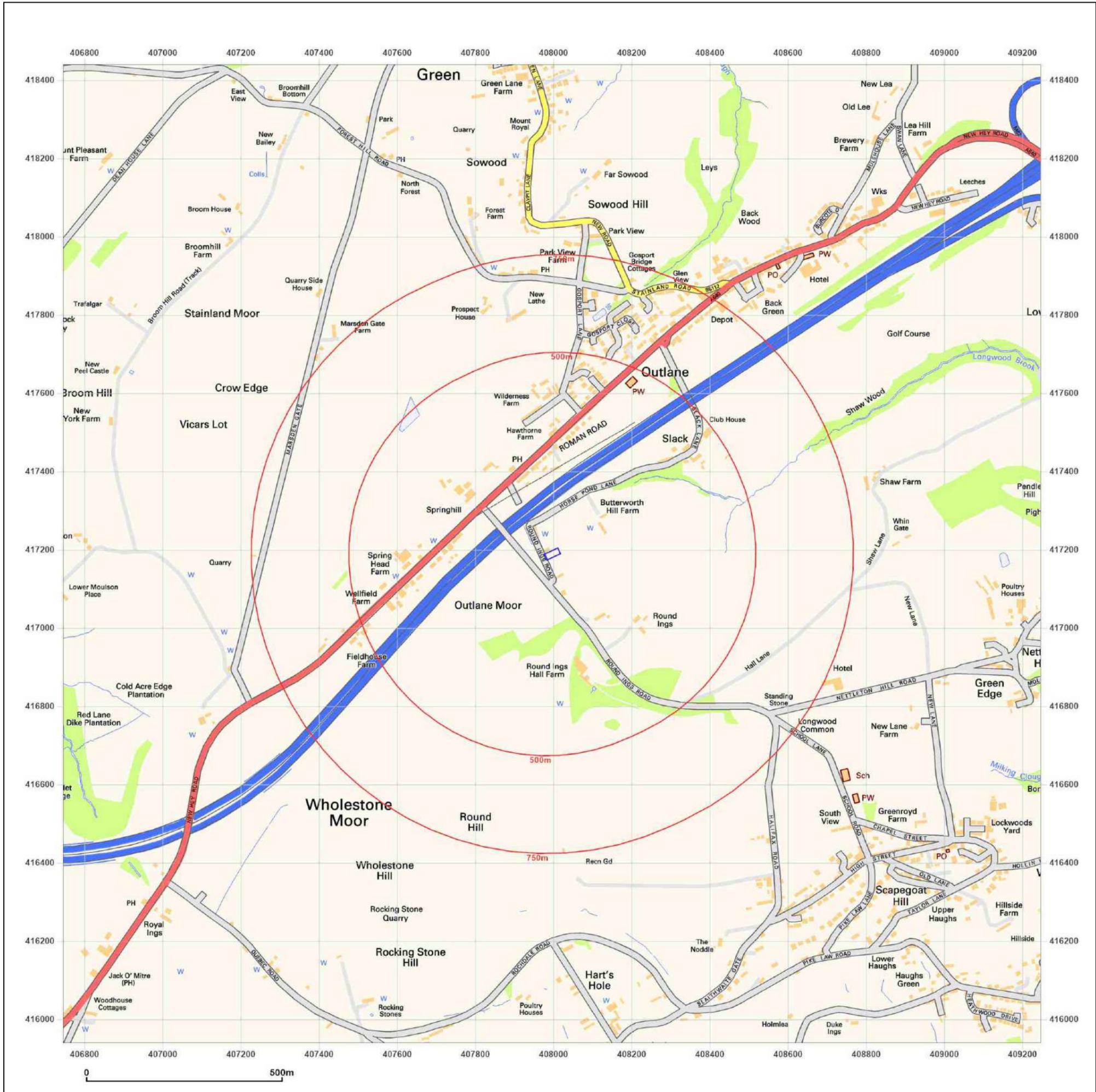
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**Site Details:**  
 8341 ROUND INGS LANE  
 OUTLANE

**Client Ref:** 8341  
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**Map Name:** National Grid  
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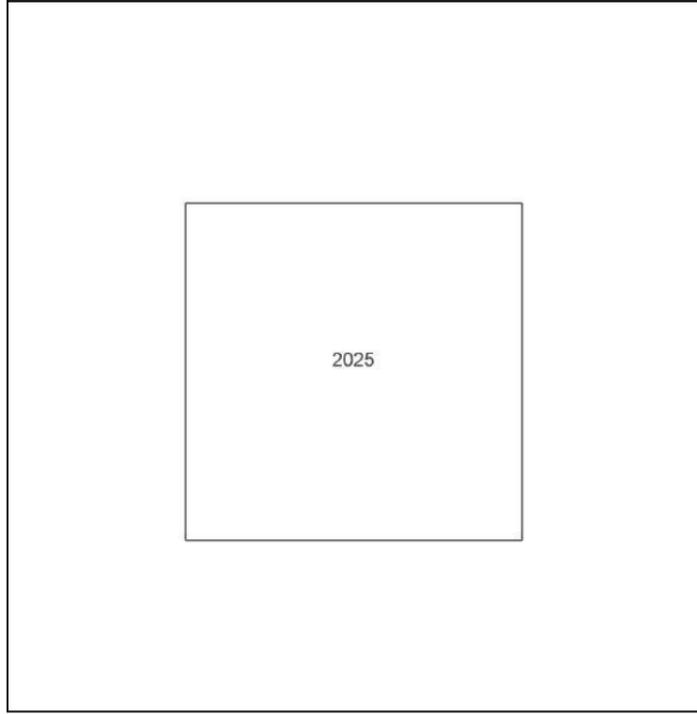



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 OUTLANE

**Client Ref:** 8341  
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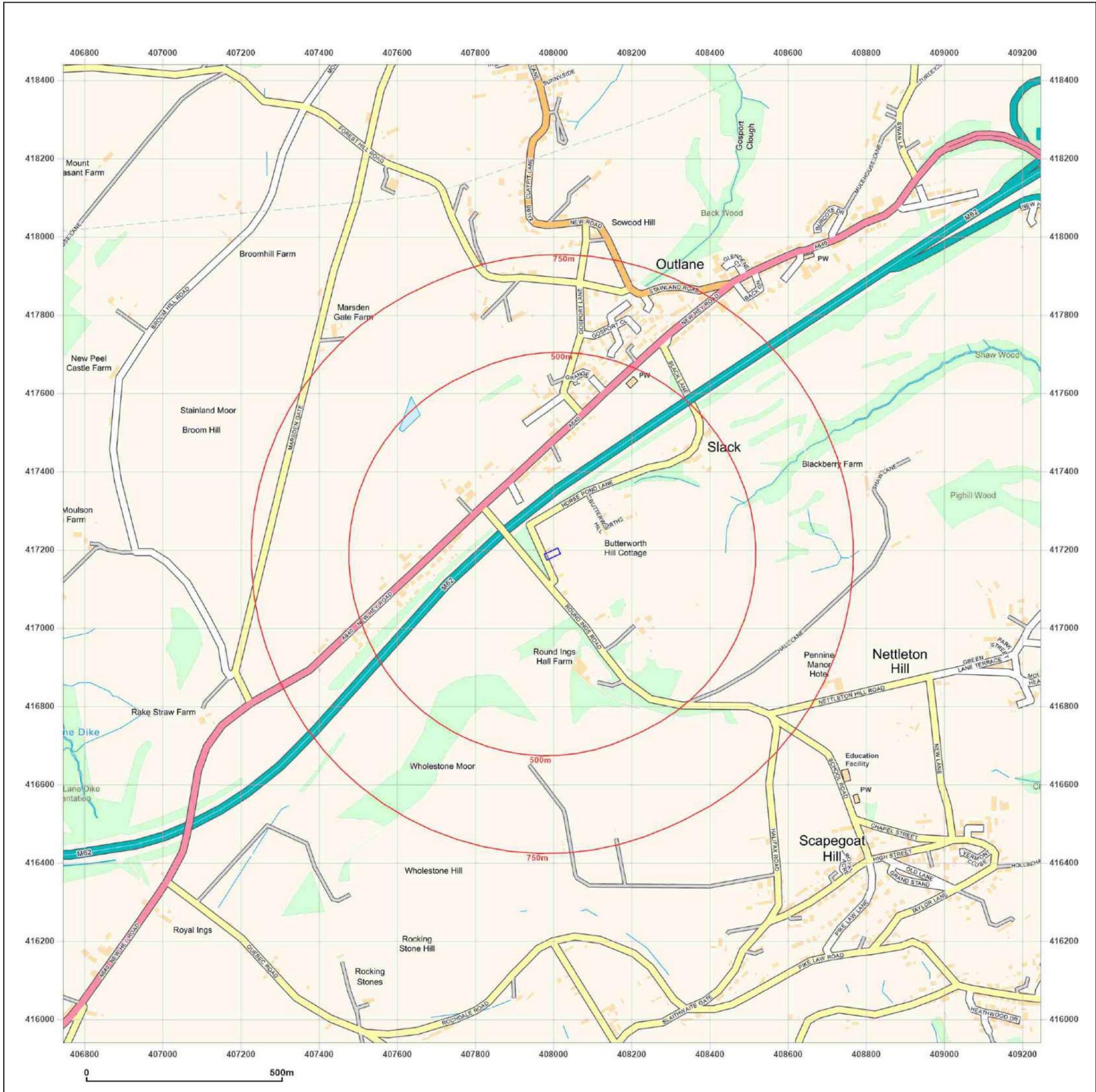


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

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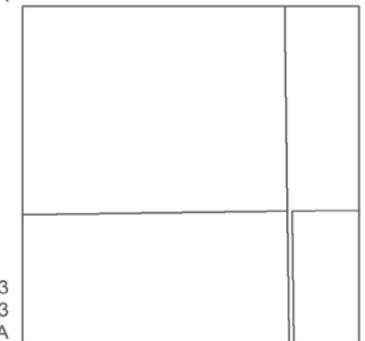
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Surveyed 1893  
Revised 1893  
Edition N/A  
Copyright N/A  
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Edition N/A  
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Surveyed 1893  
Revised 1893  
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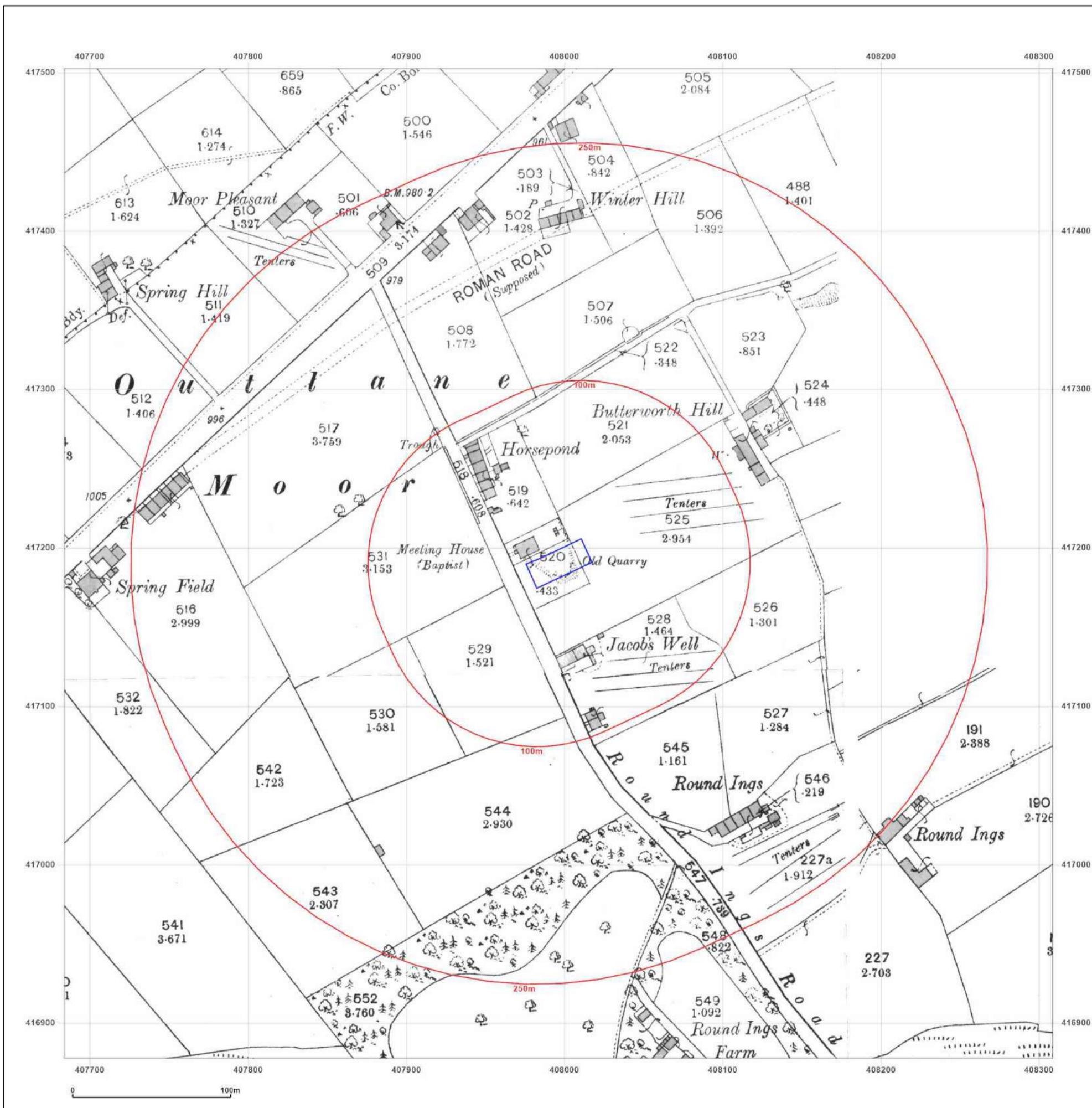


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

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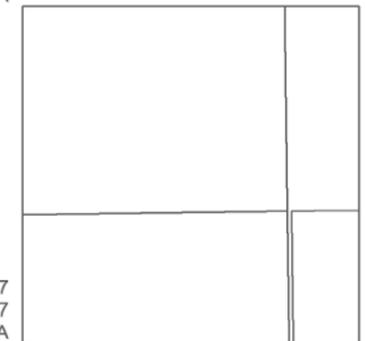
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**Scale:** 1:2,500

**Printed at:** 1:2,500



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

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Revised 1907  
Edition N/A  
Copyright N/A  
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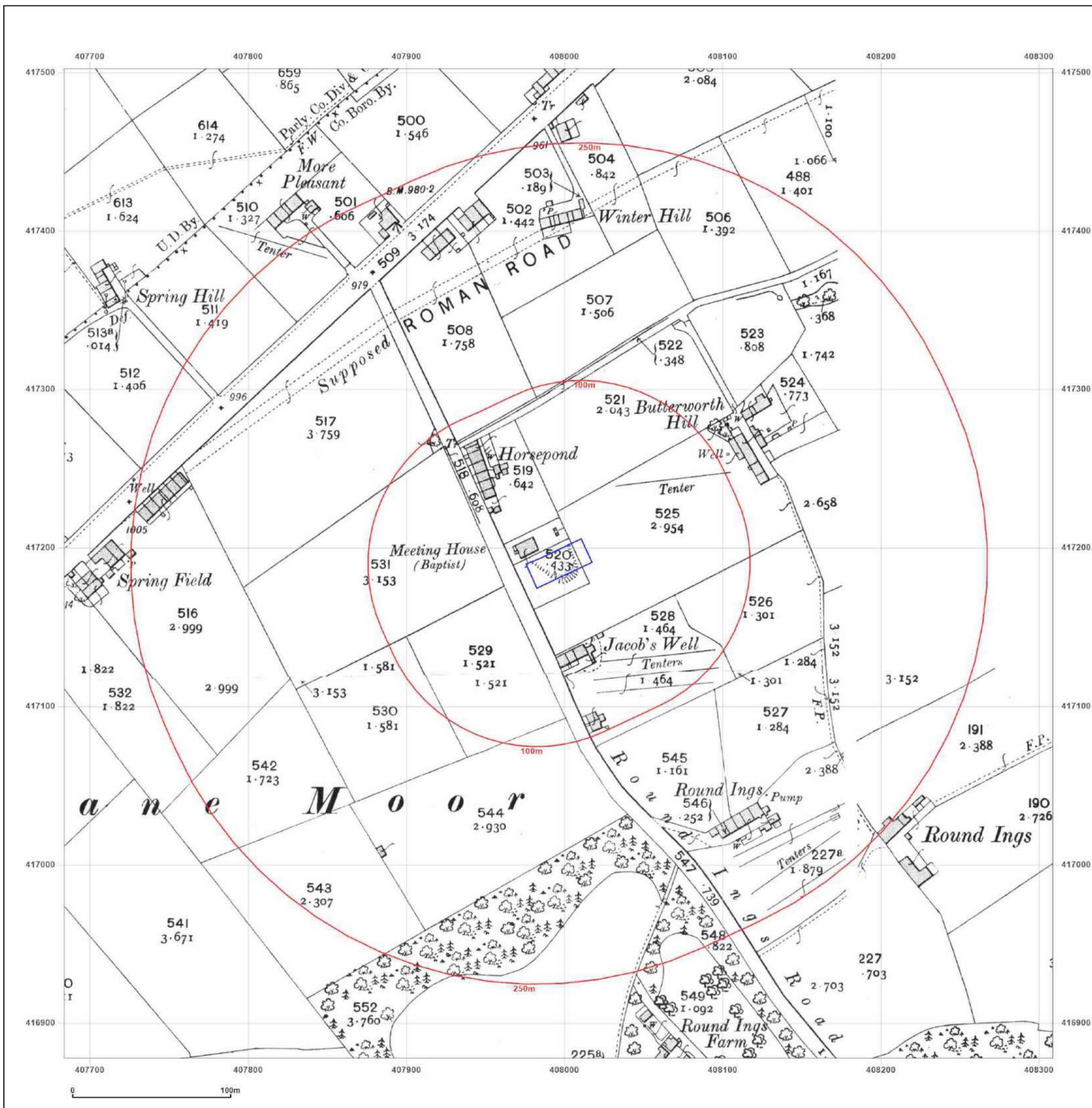


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

**Client Ref:** 8341  
**Report Ref:** GS-VBW-P9G-ZF4-A1D  
**Grid Ref:** 407996, 417190

**Map Name:** National Grid

**Map date:** 1963

**Scale:** 1:2,500

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Surveyed 1961  
Revised 1961  
Edition N/A  
Copyright 1963  
Levelled 1962

Surveyed 1961  
Revised 1961  
Edition N/A  
Copyright 1963  
Levelled 1959

Surveyed 1961  
Revised 1961  
Edition N/A  
Copyright 1963  
Levelled 1962

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Revised N/A  
Edition N/A  
Copyright N/A  
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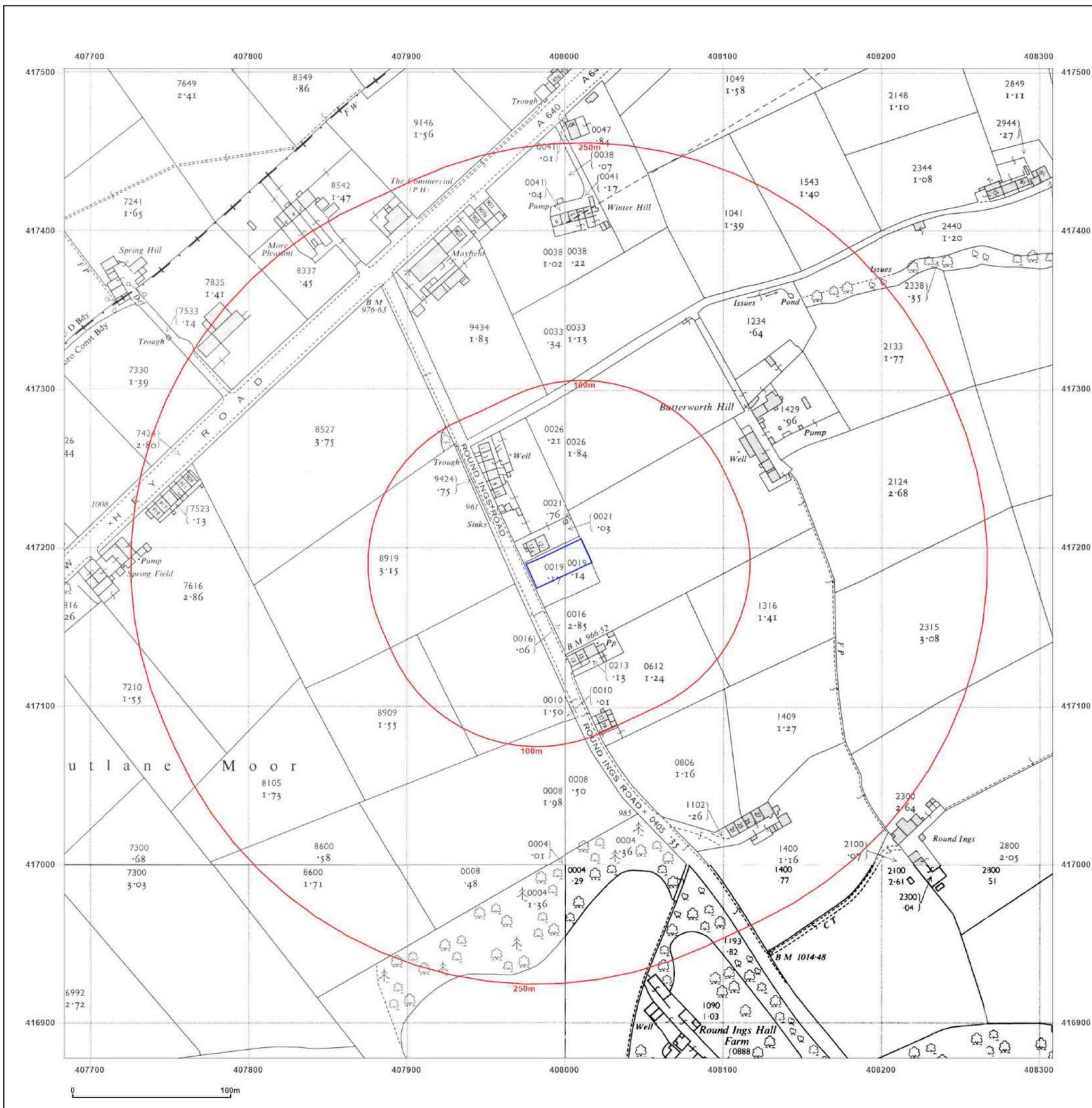


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

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**Map Name:** National Grid

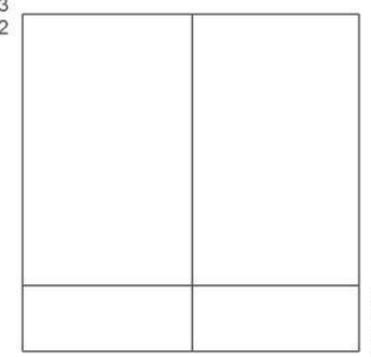
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Edition N/A  
Copyright 1963  
Levelled 1962



Surveyed 1961  
Revised 1961  
Edition 1963  
Copyright 1963  
Levelled 1959

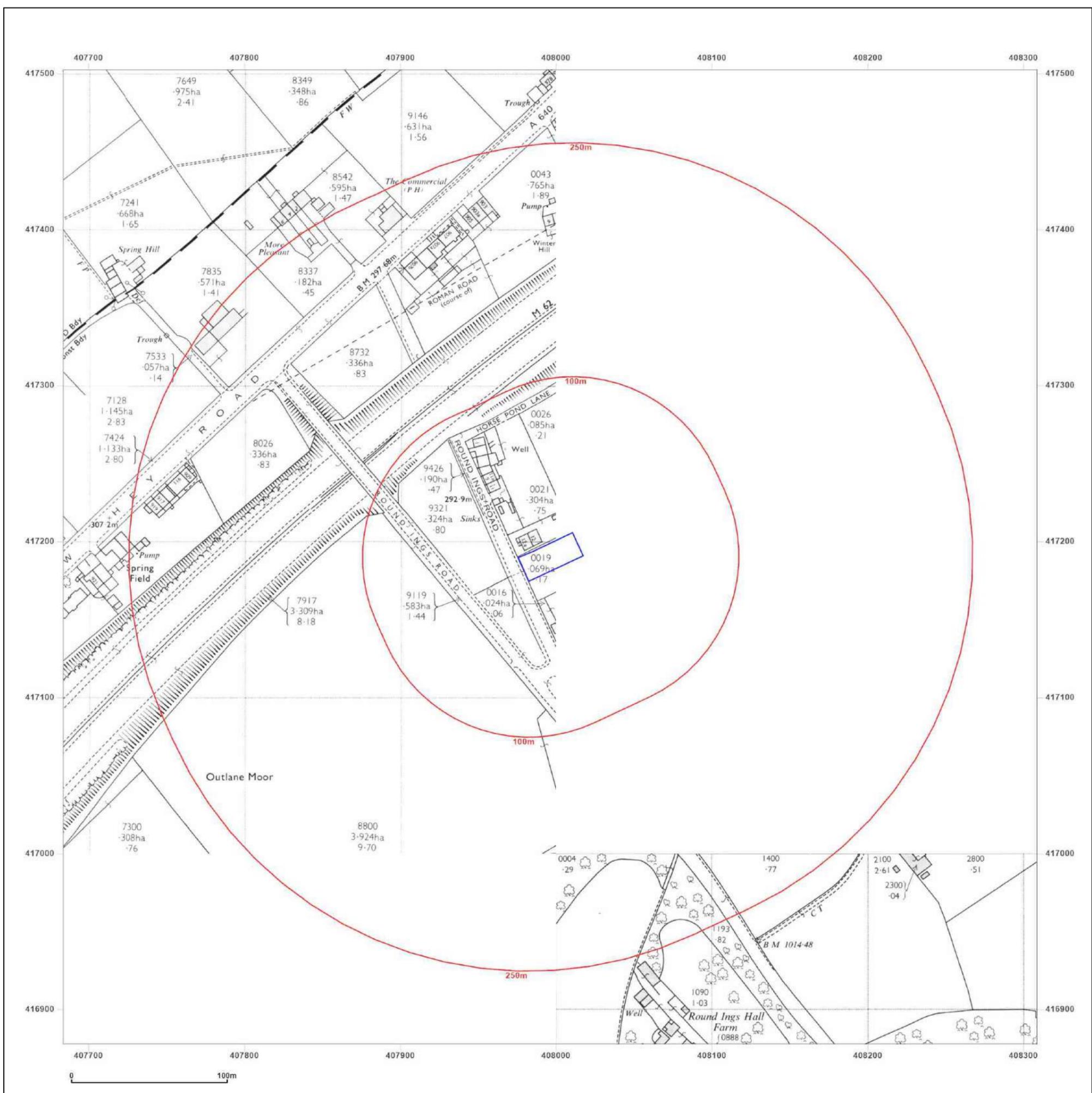


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

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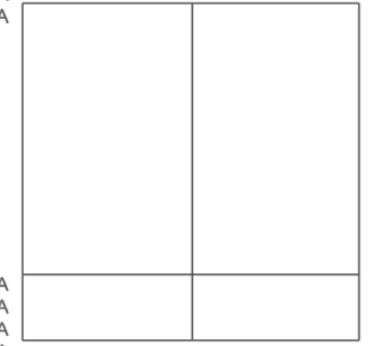
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Revised N/A  
Edition N/A  
Copyright N/A  
Levelled N/A

Surveyed 1974  
Revised 1974  
Edition N/A  
Copyright 1975  
Levelled 1959



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Revised N/A  
Edition N/A  
Copyright N/A  
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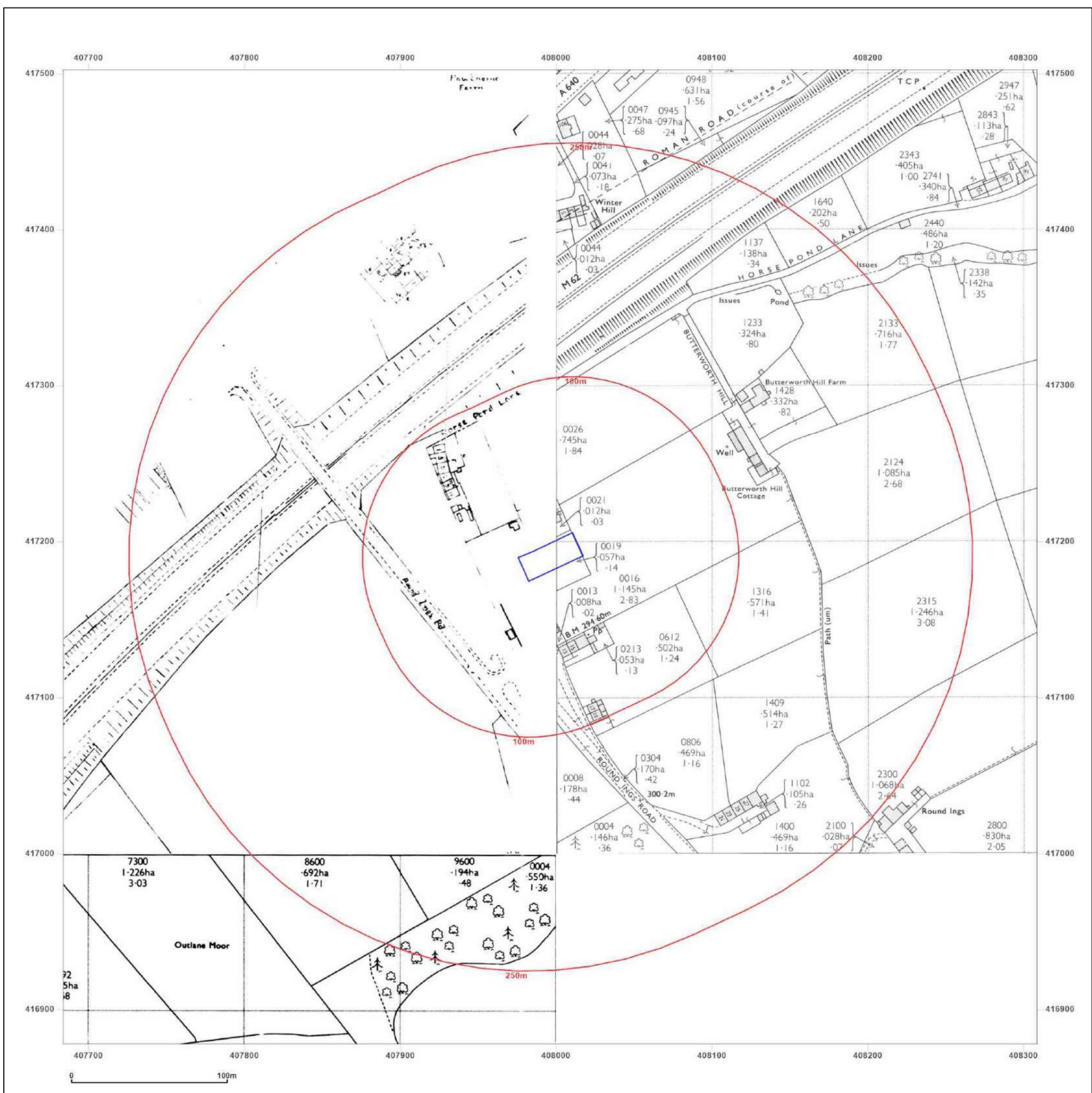


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

**Client Ref:** 8341  
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**Grid Ref:** 407996, 417190

**Map Name:** National Grid

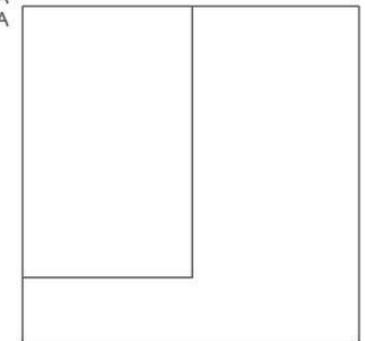
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Surveyed N/A  
Revised N/A  
Edition N/A  
Copyright N/A  
Levelled N/A

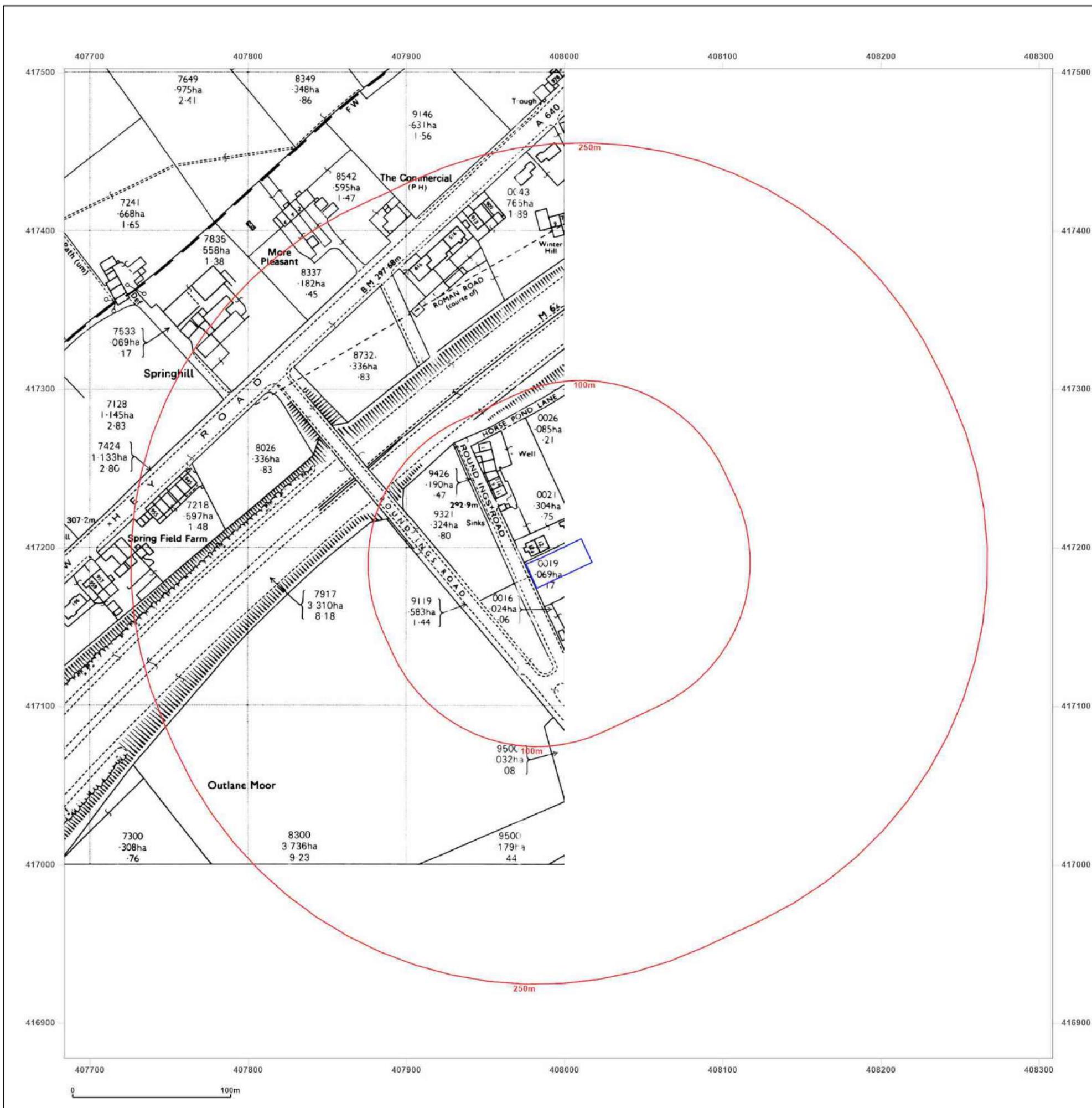


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

**Client Ref:** 8341  
**Report Ref:** GS-VBW-P9G-ZF4-A1D  
**Grid Ref:** 407996, 417190

**Map Name:** National Grid

**Map date:** 1982-1984

**Scale:** 1:2,500

**Printed at:** 1:2,500



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Revised 1981  
Edition N/A  
Copyright 1983  
Levelled 1962

Surveyed N/A  
Revised N/A  
Edition N/A  
Copyright 1983  
Levelled 1959

Surveyed 1980  
Revised 1980  
Edition N/A  
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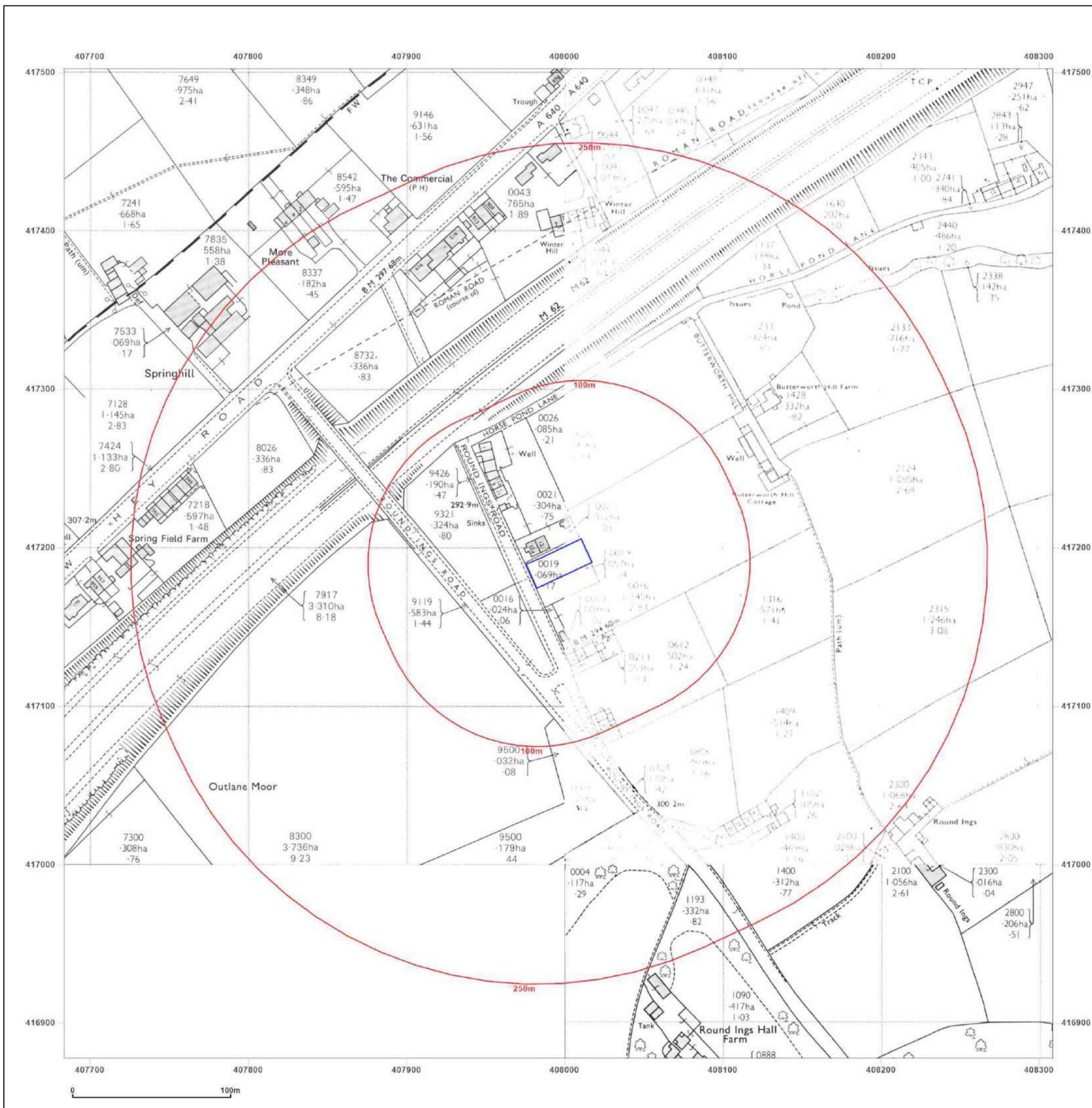


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

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**Map Name:** National Grid

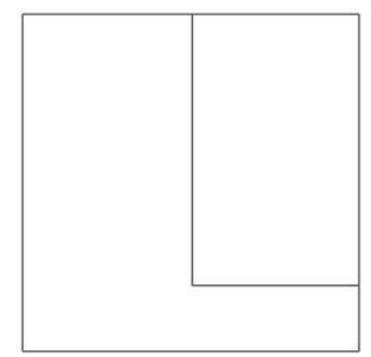
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Surveyed N/A  
Revised N/A  
Edition N/A  
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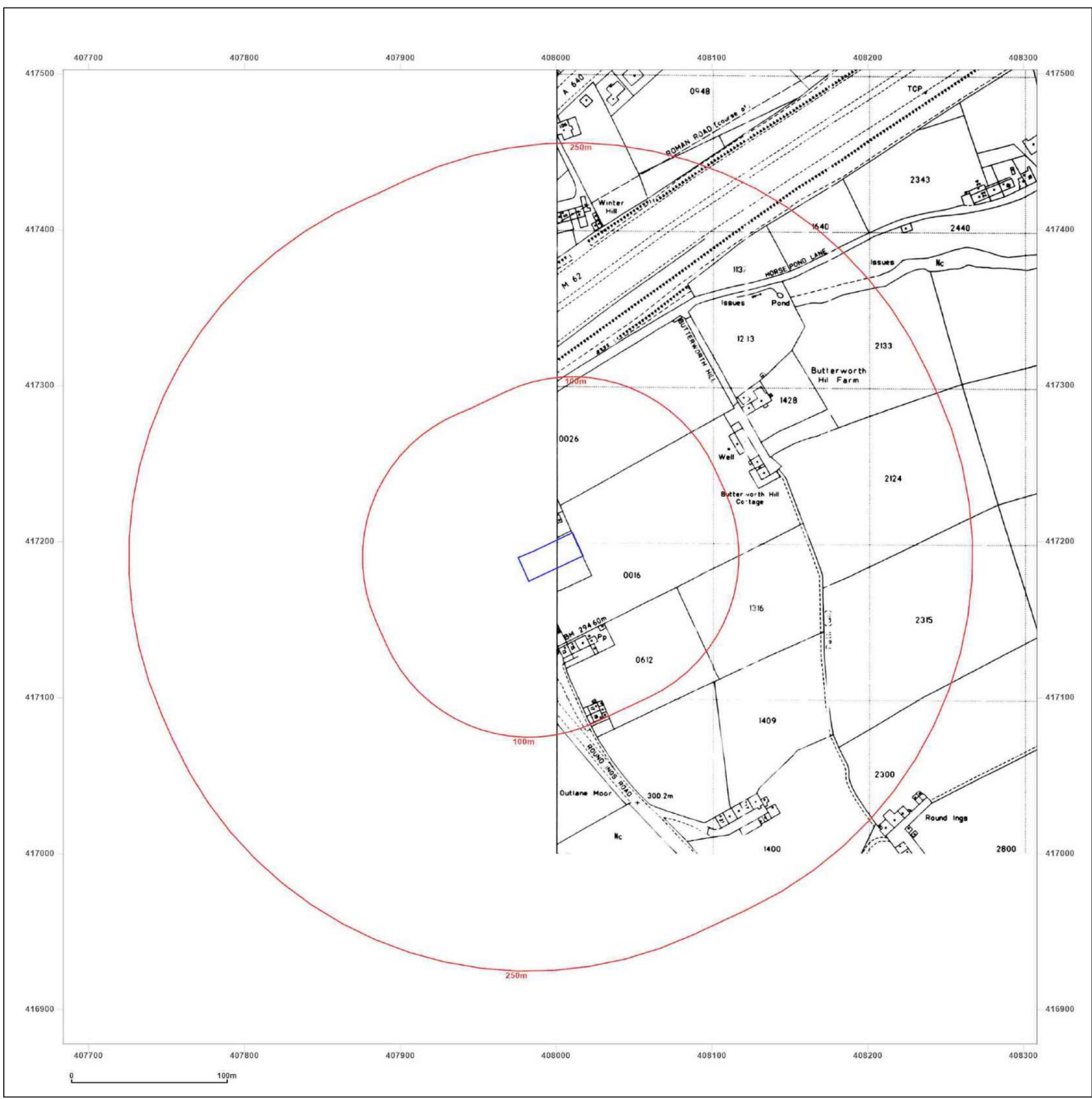


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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

**Client Ref:** 8341  
**Report Ref:** GS-VBW-P9G-ZF4-A1D  
**Grid Ref:** 407996, 417190

**Map Name:** National Grid

**Map date:** 1990-1993

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

Surveyed 1959  
Revised 1991  
Edition N/A  
Copyright 1991  
Levelled 1959

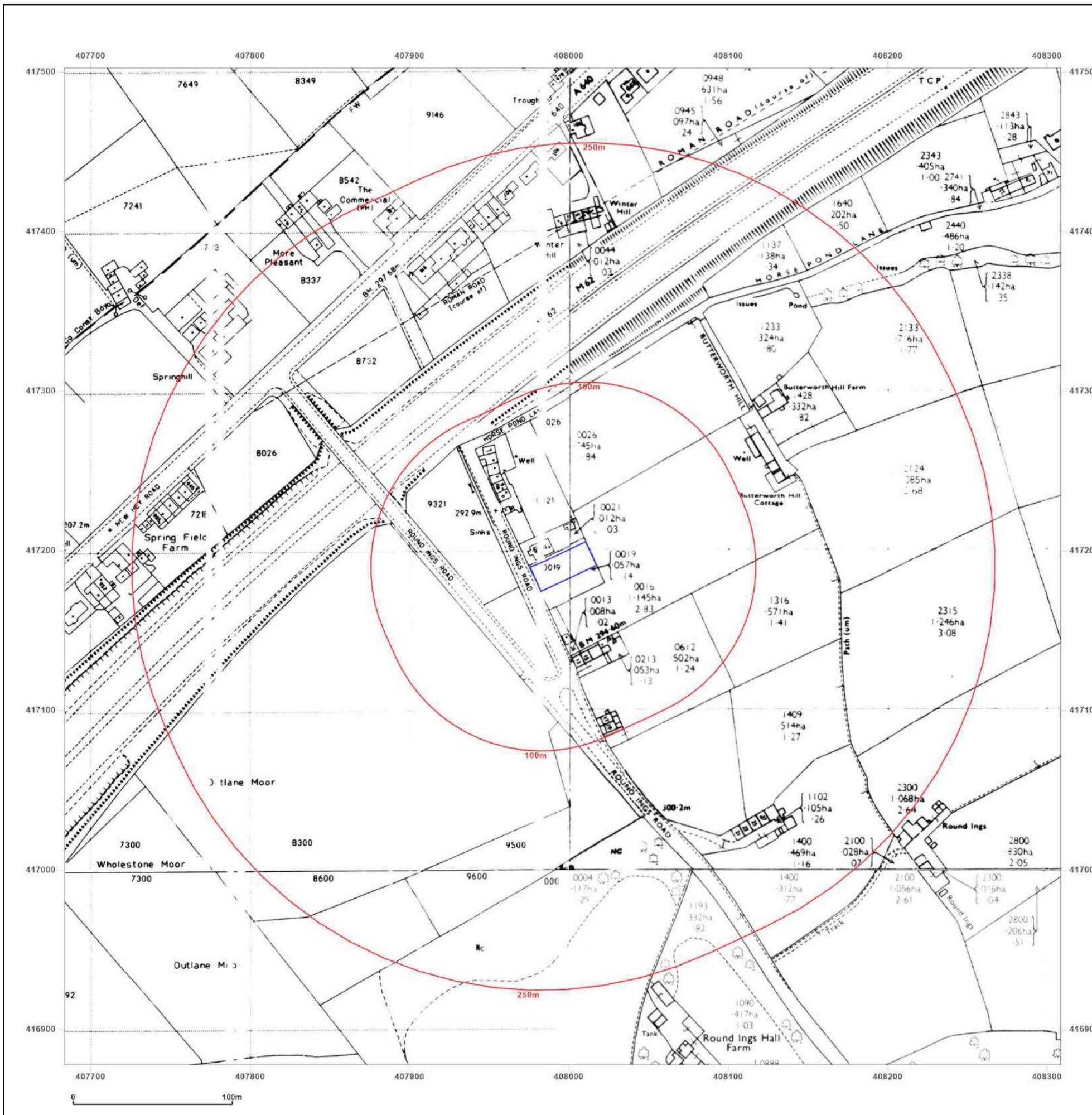


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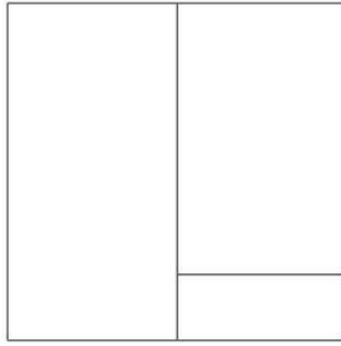


**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

**Client Ref:** 8341  
**Report Ref:** GS-VBW-P9G-ZF4-A1D  
**Grid Ref:** 407996, 417190

**Map Name:** National Grid  
**Map date:** 1990-1993  
**Scale:** 1:2,500  
**Printed at:** 1:2,500

Surveyed 1959  
Revised 1990  
Edition N/A  
Copyright 1990  
Levelled 1959

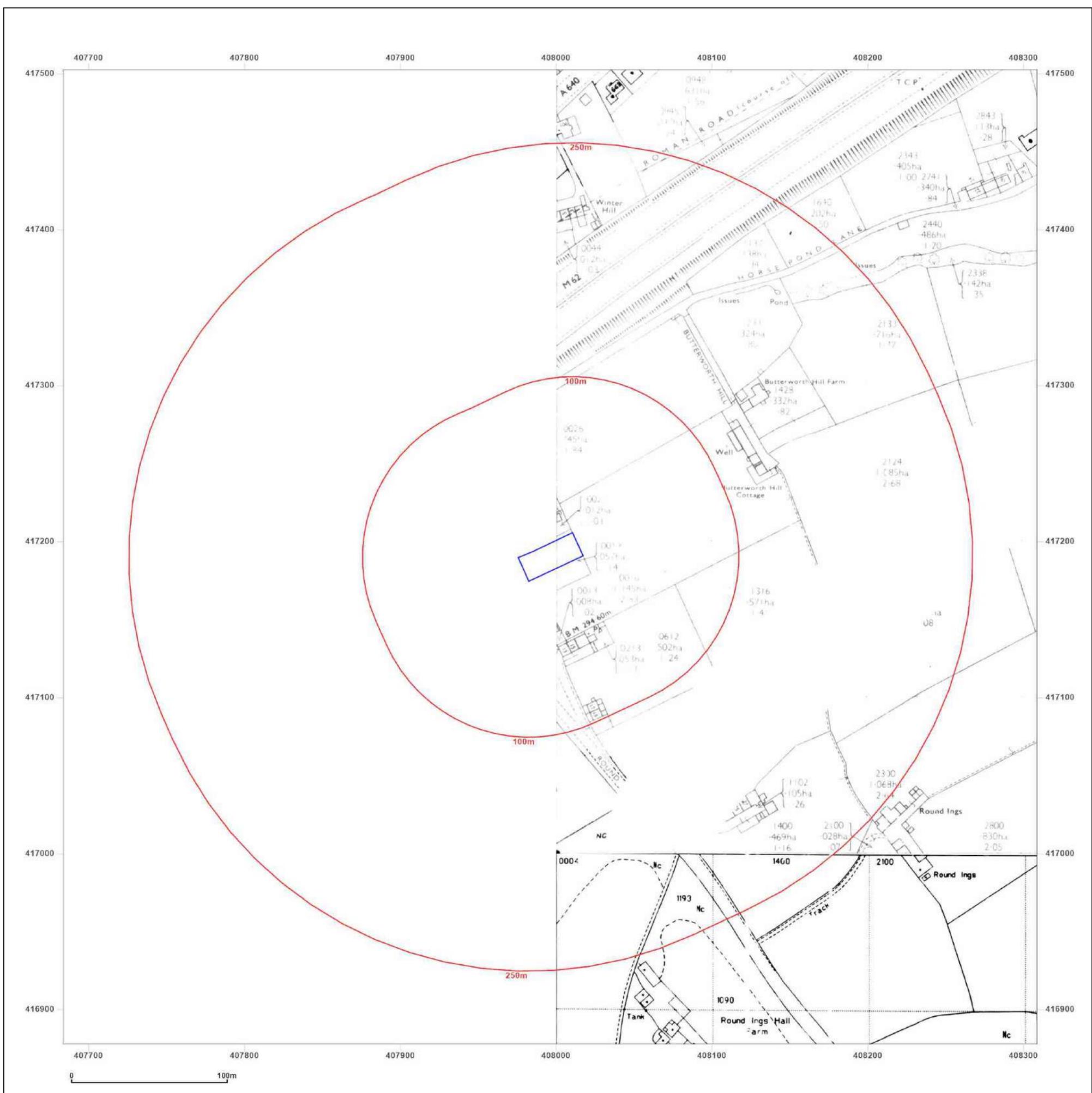
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**Site Details:**

8341 ROUND INGS LANE  
OUTLANE

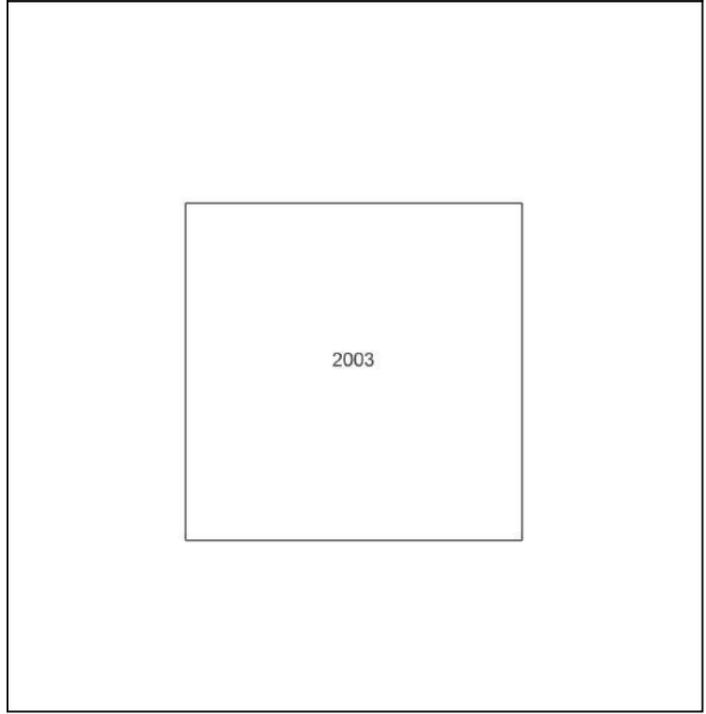
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**Grid Ref:** 407996, 417190

**Map Name:** LandLine

**Map date:** 2003

**Scale:** 1:1,250

**Printed at:** 1:1,250



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