

LAND CONTAMINATION PHASE 1 DESK STUDY

LAND ADJACENT TO 27 BROOKDALE

**ROCHDALE
OL12 0SS**

On behalf of:

Everbuild Ltd

Report No.: A230605-R01

Date: June 2023

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1. INTRODUCTION

1.1 Background & Objectives

Adeptus was appointed to undertake a Land Contamination Phase 1 Desk Study on behalf of Shah Latif, in support of a planning application for development at the site known as Land adjacent to 27 Brookdale (the study site). The report is required to assess the potential for significant contamination affecting the site and ensure suitability for the proposed use.

The objectives of the desk study are to:

- Review past land use on and in proximity to the study site
- Assess the likelihood of contamination, as well as its potential nature and extent
- Evaluate the site geological, environmental and land use setting
- Develop an initial conceptual site model
- Undertake a preliminary risk assessment in line with LCRM guidance
- Determine whether further investigation is required

1.2 Regulatory Framework

Land contamination is a material consideration under the National Planning Policy Framework (2012). This means that local authorities must take the potential or actual presence of contamination into account when considering planning applications.

“Contamination” is defined in BS 10175:2011 as:

presence of a substance or agent, as a result of human activity, in, on or under land, which has the potential to cause harm or to cause pollution.

1.3 Supporting Information

At the time of writing, no third-party reports have been made available to Adeptus.

A site plan is included as Appendix A.

Other sources of information utilised in producing this report are listed as Appendix B.

1. SITE CONTEXT

This section provides a review of the land use on and in the vicinity of the Site, with the purpose of identifying potentially significant current features and environmental constraints.

2.1 Location and Proposals

Table 2-1: Site Particulars

Location	The site is situated north of Brookdale in a predominantly residential area north of Rochdale.
Area & Coordinates	0.05ha. 389353 415369 (centred on, approx.)
Development Proposals	A pair of semi-detached dorma bungalows with gardens and driveways.



Figure 2-1: Site Location

2.2 Site Reconnaissance

A site walkover carried out and the findings are noted in Table 2-2, below, with any photos included as Appendix C.

Table 2-2: Site Walkover Observations

Date: /11/06/2023	Notes
Current/Recent Land Use	On-site: Undeveloped amenity land, formerly owned by the local authority.
	North: Dwellings with gardens
	East: Healey Primary School
	South: Dwellings with gardens
	West: Dwellings with gardens
Topography	Generally flat and level.
Ground Cover Proportions On-site	Buildings: -
	Hardstanding: -
	Soft Landscaping: 100%
Fuel and/or Chemical Storage	None evident during site walkover.
Off Site Potential Contaminant Sources	None evident during site walkover.
Visual or olfactory evidence of contamination	None evident during site walkover.
Asbestos Containing Material (ACM)	None evident during site walkover.
Vegetation & Potential Invasive Flora	No signs of vegetation stress were noted. No invasive species were evident during the site walkover.

3. PAST LAND USE

3.1 Historical Development

Historical Ordnance (OS) Survey map extracts have been examined to provide a summary of significant land use on and in proximity to the site, including industrial features within 100m and potential landfills within 250m.

Where available, more recent aerial photographs have also been reviewed for evidence of relevant land use.

Potentially significant features are noted in the table below. Where more than one instance of the same use occurs in the same direction, only the closest has been described.

Table 3-1: Historical Development Summary

On-site Source or Feature	Map Years Noted		Description
	First	Last	
Undeveloped land	1890	Today	The site initially falls within an area of land extending south and with a road to the north. Dwellings currently to the west appear on the 1975 OS map, and most of those to the south and east appear by 1982.

Off-site Source – Distance & Direction	Map Years Noted		Description
	First	Last	
Dwellings – 10m E	1890	1975	A row of four terraced houses is situated at the end of the road passing across the north of the study site. By 1982 the dwellings had been demolished and the primary school built to the east.
Ground workings – 180m N	1890	1939	A quarry is labelled, along with an additional area of groundworkings to its north, and an old shaft. The quarry is disused by 1910, and there is no sign of the groundworkings around the old shaft by 1959.
Quarry Mill – 80m SW	1890	Today	A large cotton mill sits north of Whitworth Rd. and includes a pond/reservoir. By 1975 land around the mill has been developed with housing, and by 1992 the reservoir infilled. The mill is used as a furniture warehouse today.
Brickfield/ Clay Pit – 70m SW	1890	1939	The brickfield and clay pit sit south of the mill. The land is partially redeveloped with garages by 1959 and with a doctor's surgery by 1992.
Tank – 127m W	1959	1982	The tank is at Healey Farm and may have contained diesel. There is no sign of the tank 1992.
Electricity Substation - 29m W	1975	Today	The substation appears along with the development of the adjacent dwellings.

3.2 Landfill & Waste Sites

Landfills and other potentially significant waste sites identified within 250m of the site are reviewed in table below.

Table 3-2: Data on Landfill & Waste Sites

Records	Details & Significance
- Active or recently closed landfills: 1 - BGS/DOE historical landfills: 0 - Local Authority(OS) historical landfill: 0 - EA/NRW historical landfills: 0 - EA/NRW current/recent landfills: 0 - Historical permissioned waste sites: 0 - Active or recently waste sites: 0 - Waste exemptions: 0	<u>Active or recently closed landfills</u> - Fieldhouse Road, Rochdale – 240m - Landfill type: A05: Landfill taking Non-Biodegradable Wastes - Status: Closure - Operator: Rochdale M B C A small part the landfill extends to within 250m of the study site.

3.3 Industrial Features & Records

Industrial features indicating an increased likelihood of the presence of contamination, pollution incidents, and sites determined as contaminated land by a statutory authority, within 100m, are reviewed in table below.

Table 3-3: Industrial Data

Records	Details & Significance
- Current industrial sites: 6 - Current or recent petrol stations: 0 - Electricity cables: 0 - Gas pipelines: 0 - Sites determined as Contaminated Land: 0 - COMAH Sites: 0 - Regulated explosive sites: 0 - Hazardous substance storage: 0 - Integrated Pollution Control (IPC) records: 0 - Part A(1) permitted installations: 0 - Licensed pollutant releases (Part A(2)/B): 0 - Radioactive substance authorisations: 0 - Licensed discharges to controlled waters: 0 - Pollutant discharge to surface waters: 0 - Pollutant release to public sewer: 0 - List 1/2 dangerous substances discharge: 0	<u>Industrial sites</u> The 6 records generally comprise the features identified from the site reconnaissance, such as the substation to the west. Others are low input activities such as the furniture warehouse.

- Pollution incidents: 0
- Pollution inventory reporting: 0

4. ENVIRONMENTAL SETTING

The site's environmental and geological setting are reviewed characterise probable pathways and receptors, as well as identify relevant contaminant sources.

4.1 Geology & Geohazards

Published Geology

Data held by the British Geological Survey (BGS) indicate the site is underlain by the geological sequence summarised in the table below.

Table 4-1: Summary of Published Geology

Geological Unit	Description	Composition	Location
• Superficial/Drift:	Till, Devensian	Diamicton	On site
• Bedrock/Solid:	Helpet Edge Rock	Sandstone	On site

Geohazards

Potential health and environmental hazards relating to recorded or unrecorded mine workings, artificial ground and permanent gases are reviewed in the table below.

Table 4-2: Environmental Geohazards

Potential Geohazard	Details & Significance
• Infilled or Made Ground	No evidence of significant ground workings or infilled voids has been identified in proximity to the site. Those to the north and south are not considered to potentially significant, due to both their distance from the site and their being infilled before the 1960s.
• Ground Gas Potential	The natural geological strata identified above not considered a significant source of permanent ground gases such as methane or carbon dioxide.

4.2 Controlled Waters

4.2.1 Groundwater

Designated groundwater aquifers underlying the site are reviewed in the table below, along with any licenced abstractions and source protection zones.

Table 4-3: Aquifers, Abstractions & Protection Zones

Records		Details & Significance
Superficial Aquifer:	Secondary Undifferentiated	Assigned in cases where it has not been possible to attribute either category A or B to a rock type. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.
Bedrock Aquifer:	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.
- Groundwater Abstractions Licenses: 0 - Surface Water Abstractions Licenses: 0 - Potable Water Abstractions Licenses: 0 - The site is not within a SPZ		-

4.2.2 Surface Waters

Local surface water features and flood risk zones are reviewed in the table below.

Table 4-4: Surface Waters & Flood Risk Zones

Surface Waters	Details & Significance
None within 250m	There are no watercourses mapped within 250m of the study site.
The site is in Flood Zone 1	Very low risk of flooding, with an annual probability according to the EA/NRW of less than 0.1%.

4.3 Protected Sites

4.3.1 Designated Environmental & Heritage Sites

Statutory protected environmental and heritage sites within 250m are reviewed in the table below.

Table 4-5: Statutory Protected Sites

Feature	Details & Significance
- Ramsar sites: 0 - Special Areas of Conservation (SAC): 0 - Special Protection Areas (SPA): 0 - National Nature Reserves (NNR): 0 - Local Nature Reserves (LNR): 0 - Designated Ancient Woodland: 0 - World Heritage Sites: 0 - Listed Buildings: 0	There are no further significant features within the search distance.

5 INITIAL CONCEPTUAL SITE MODEL

For a conceptual risk to human health or the environment to exist within the context of LCRM, all of the following elements must be present:

- a source – i.e., a substance (contaminant(s)) that is capable of causing pollution or adverse health effects;
- a receptor - i.e., something which could be adversely affected by the source; and
- a pathway – i.e., a route by which the contaminant could come into contact with, or affect, the receptor.

Information on these three elements is used to form an initial conceptual site model (CSM) and identify potentially significant contaminant linkages.

5.1 Pollutant Linkage Assessment

Based on the information presented in Sections 2 and 3, the following potential sources, receptors and relevant pathways for exposure are identified in relation to the development.

5.1.1 On-Site Potential Sources of Contamination

- No potentially significant on-site sources have been identified.

5.1.2 Off-Site Potential Sources of Contamination

- No potentially significant off-site sources have been identified.

The former groundworkings to the north and south are not considered to be potentially significant, due to both their distance from the site and their being infilled before the 1960s. This predates the clean air act, before which the majority of degradable waste was burnt.

Additionally, although the groundworking to the north was later a local authority landfill, this was permitted for non-biodegradable waste only, so would be a source of ground gases.

With added mitigation of the above being on higher ground and at significant distance, the likelihood of a plausible pathway is also very low even if gas were to be present.

Industrial development to the south and substation to the west are not significant due to both their distance, and being at significantly lower elevation than the study site, making the likelihood of a plausible pathway negligible.

5.1.3 Potential Receptors

- In the absence of any identified potentially significant source of contamination, a pollutant linkage cannot exist, and consideration of receptors is not necessary.

5.1.4 Potential Pathways

- In the absence of any identified potentially significant source of contamination, a pollutant linkage cannot exist, and consideration of pathways is not necessary.

5.2 Preliminary Risk Assessment

As no potentially significant pollutant linkages have been identified, no further risk assessment is undertaken, in line with the requirements of LCRM.

6 CONCLUSIONS

6.1 Risk Assessment Summary

Adeptus was appointed by Shah Latif to undertake a Geo-Environmental Phase 1 Desk Study in support of a planning application for development at the site known as Land adjacent to 27 Brookdale.

On the basis of the available information, no potentially significant pollutant linkages have been identified and the proposed development is therefore considered to present a low risk to human health and the environment.

The site has remained undeveloped during the mapped period from 1890 until today and appears to have been left over as amenity land during development of the surrounding dwellings. The school to the northeast was built between 1975 and 1982.

Dwellings surrounding the site were built between 1975 and 1982 on previously undeveloped land.

Although some potential offsite sources have been noted, none are considered significant by virtue of their distance, significant difference in elevation, and general nature (non-biodegradable landfill).

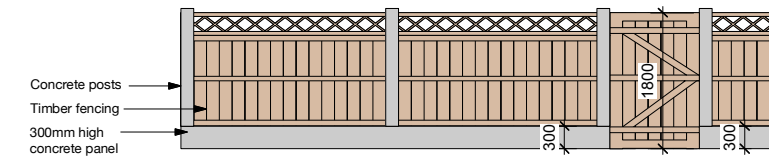
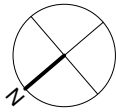
N.B.: This summary forms part of the overall desk study and preliminary risk assessment and should not be viewed or used as an independent report.

6.2 Recommendations

Adeptus considers that no further action is required at this stage.

- End of report.

APPENDIX A – SITE PLAN



FENCING DETAILS
SCALE 1:100



APPENDIX B – SUPPORTING INFORMATION

In compiling this report the following data sources have been consulted.

- Groundsure Enviro Insight Report (Appendix B1)
- Historical Ordnance Survey Maps (Appendix B2)
- Ordnance Survey Trade Directories
- British Geological Survey data, maps and memoirs
- Environment Agency and Local Authority designations, registers and permissions
- Site reconnaissance – walkover

This report is based on information available at the time of writing and is subject to the limitations set out in Appendix C. In general, the listed information sources have been accessed via the Enviro Insight Report.

Appendix B1 – Enviro Insight Report

27, BROOKDALE, ROCHDALE, OL12 0SS

Order Details

Date: 11/06/2023
Your ref: Land_adjacent_to_27_Brookdale_
Our Ref: GS-QD3-D23-X6G-1IX

Site Details

Location: 389353 415369
Area: 0.05 ha
Authority: [Rochdale Metropolitan Borough Council](#) ↗



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[Summary of findings](#)

[p. 2 >](#)

[Aerial image](#)

[p. 8 >](#)

[OS MasterMap site plan](#)

[p.13 >](#)

groundsure.com/insightuserguide ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	0	0	27	109	-
20 >	1.2 >	Historical tanks >	0	0	7	8	-
20 >	1.3 >	Historical energy features >	0	1	0	9	-
21 >	1.4 >	Historical petrol stations >	0	0	0	0	-
21 >	1.5 >	Historical garages >	0	0	0	4	-
22 >	1.6 >	Historical military land >	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
23 >	2.1 >	Historical industrial land uses >	0	0	34	143	-
30 >	2.2 >	Historical tanks >	0	0	7	12	-
31 >	2.3 >	Historical energy features >	0	2	0	16	-
32 >	2.4 >	Historical petrol stations >	0	0	0	0	-
32 >	2.5 >	Historical garages >	0	0	0	8	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
33 >	3.1 >	Active or recent landfill >	0	0	0	1	-
34 >	3.2 >	Historical landfill (BGS records) >	0	0	0	0	-
34 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	0	2	-
34 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	1	2	-
35 >	3.5 >	Historical waste sites >	0	0	0	0	-
35 >	3.6 >	Licensed waste sites >	0	0	0	0	-
35 >	3.7 >	Waste exemptions >	0	0	0	4	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
37 >	4.1 >	Recent industrial land uses >	0	1	5	-	-
38 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
38 >	4.3 >	Electricity cables >	0	0	0	0	-
38 >	4.4 >	Gas pipelines >	0	0	0	0	-
39 >	4.5 >	Sites determined as Contaminated Land >	0	0	0	0	-



39 >	4.6 >	Control of Major Accident Hazards (COMAH) >	0	0	0	0	-
39 >	4.7 >	Regulated explosive sites >	0	0	0	0	-
39 >	4.8 >	Hazardous substance storage/usage >	0	0	0	0	-
39 >	4.9 >	Historical licensed industrial activities (IPC) >	0	0	0	0	-
40 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	0	0	-
40 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	1	-
40 >	4.12 >	Radioactive Substance Authorisations >	0	0	0	0	-
40 >	4.13 >	Licensed Discharges to controlled waters >	0	0	0	0	-
41 >	4.14 >	Pollutant release to surface waters (Red List) >	0	0	0	0	-
41 >	4.15 >	Pollutant release to public sewer >	0	0	0	0	-
41 >	4.16 >	List 1 Dangerous Substances >	0	0	0	0	-
41 >	4.17 >	List 2 Dangerous Substances >	0	0	0	0	-
41 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	0	0	-
42 >	4.19 >	Pollution inventory substances >	0	0	0	0	-
42 >	4.20 >	Pollution inventory waste transfers >	0	0	0	0	-
42 >	4.21 >	Pollution inventory radioactive waste >	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
43 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
45 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
47 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
48 >	5.4 >	Groundwater vulnerability- soluble rock risk >	None (within 0m)				
48 >	5.5 >	Groundwater vulnerability- local information >	None (within 0m)				
49 >	5.6 >	Groundwater abstractions >	0	0	0	0	5
51 >	5.7 >	Surface water abstractions >	0	0	0	0	14
55 >	5.8 >	Potable abstractions >	0	0	0	0	9
57 >	5.9 >	Source Protection Zones >	0	0	0	0	-
57 >	5.10 >	Source Protection Zones (confined aquifer) >	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
58 >	6.1 >	Water Network (OS MasterMap) >	0	0	1	-	-



59 >	6.2 >	Surface water features >	0	0	1	-	-
59 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
59 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
60 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
61 >	7.1 >	Risk of flooding from rivers and the sea >	None (within 50m)				
61 >	7.2 >	Historical Flood Events >	0	0	0	-	-
61 >	7.3 >	Flood Defences >	0	0	0	-	-
62 >	7.4 >	Areas Benefiting from Flood Defences >	0	0	0	-	-
62 >	7.5 >	Flood Storage Areas >	0	0	0	-	-
63 >	7.6 >	Flood Zone 2 >	None (within 50m)				
63 >	7.7 >	Flood Zone 3 >	None (within 50m)				
Page	Section	Surface water flooding >					
64 >	8.1 >	Surface water flooding >	Negligible (within 50m)				
Page	Section	Groundwater flooding >					
65 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
66 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	0
67 >	10.2 >	Conserved wetland sites (Ramsar sites) >	0	0	0	0	0
67 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	0	0	0
67 >	10.4 >	Special Protection Areas (SPA) >	0	0	0	0	0
67 >	10.5 >	National Nature Reserves (NNR) >	0	0	0	0	0
68 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
68 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	6
68 >	10.8 >	Biosphere Reserves >	0	0	0	0	0
69 >	10.9 >	Forest Parks >	0	0	0	0	0
69 >	10.10 >	Marine Conservation Zones >	0	0	0	0	0
69 >	10.11 >	Green Belt >	0	0	1	0	3
69 >	10.12 >	Proposed Ramsar sites >	0	0	0	0	0



70 >	10.13 >	Possible Special Areas of Conservation (pSAC) >	0	0	0	0	0
70 >	10.14 >	Potential Special Protection Areas (pSPA) >	0	0	0	0	0
70 >	10.15 >	Nitrate Sensitive Areas >	0	0	0	0	0
70 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	0	0
71 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
72 >	10.18 >	SSSI Units >	0	0	0	0	0
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
73 >	11.1 >	World Heritage Sites >	0	0	0	-	-
73 >	11.2 >	Area of Outstanding Natural Beauty >	0	0	0	-	-
73 >	11.3 >	National Parks >	0	0	0	-	-
73 >	11.4 >	Listed Buildings >	0	0	0	-	-
74 >	11.5 >	Conservation Areas >	0	0	0	-	-
74 >	11.6 >	Scheduled Ancient Monuments >	0	0	0	-	-
74 >	11.7 >	Registered Parks and Gardens >	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
75 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
76 >	12.2 >	Open Access Land >	0	0	0	-	-
76 >	12.3 >	Tree Felling Licences >	0	0	0	-	-
76 >	12.4 >	Environmental Stewardship Schemes >	0	0	0	-	-
76 >	12.5 >	Countryside Stewardship Schemes >	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
77 >	13.1 >	Priority Habitat Inventory >	0	0	0	-	-
77 >	13.2 >	Habitat Networks >	0	0	0	-	-
77 >	13.3 >	Open Mosaic Habitat >	0	0	0	-	-
77 >	13.4 >	Limestone Pavement Orders >	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
78 >	14.1 >	10k Availability >	Identified (within 500m)				
79 >	14.2 >	Artificial and made ground (10k) >	0	0	3	13	-
81 >	14.3 >	Superficial geology (10k) >	1	0	1	1	-

82 >	14.4 >	Landslip (10k) >	0	0	0	0	-
83 >	14.5 >	Bedrock geology (10k) >	1	0	6	8	-
84 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	4	4	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
86 >	15.1 >	50k Availability >	Identified (within 500m)				
87 >	15.2 >	Artificial and made ground (50k) >	0	0	0	1	-
88 >	15.3 >	Artificial ground permeability (50k) >	0	0	-	-	-
89 >	15.4 >	Superficial geology (50k) >	1	0	1	0	-
90 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
90 >	15.6 >	Landslip (50k) >	0	0	0	0	-
90 >	15.7 >	Landslip permeability (50k) >	None (within 50m)				
91 >	15.8 >	Bedrock geology (50k) >	1	0	6	6	-
92 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
92 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	4	3	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
94 >	16.1 >	BGS Boreholes >	0	0	0	-	-
Page	Section	Natural ground subsidence >					
95 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
96 >	17.2 >	Running sands >	Very low (within 50m)				
98 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
99 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
100 >	17.5 >	Landslides >	Low (within 50m)				
102 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities >	On site	0-50m	50-250m	250-500m	500-2000m
104 >	18.1 >	Natural cavities >	0	0	0	0	-
105 >	18.2 >	BritPits >	0	0	3	4	-
106 >	18.3 >	Surface ground workings >	0	0	23	-	-
107 >	18.4 >	Underground workings >	0	0	6	9	3
108 >	18.5 >	Historical Mineral Planning Areas >	0	0	0	1	-



108 >	18.6 >	Non-coal mining >	0	0	0	0	0
109 >	18.7 >	Mining cavities >	0	0	0	0	0
109 >	18.8 >	JPB mining areas >	None (within 0m)				
109 >	18.9 >	Coal mining >	Identified (within 0m)				
109 >	18.10 >	Brine areas >	None (within 0m)				
110 >	18.11 >	Gypsum areas >	None (within 0m)				
110 >	18.12 >	Tin mining >	None (within 0m)				
110 >	18.13 >	Clay mining >	None (within 0m)				
Page	Section	Radon >					
111 >	19.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
113 >	20.1 >	BGS Estimated Background Soil Chemistry >	2	0	-	-	-
113 >	20.2 >	BGS Estimated Urban Soil Chemistry >	0	0	-	-	-
113 >	20.3 >	BGS Measured Urban Soil Chemistry >	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
114 >	21.1 >	Underground railways (London) >	0	0	0	-	-
114 >	21.2 >	Underground railways (Non-London) >	0	0	0	-	-
114 >	21.3 >	Railway tunnels >	0	0	0	-	-
114 >	21.4 >	Historical railway and tunnel features >	0	0	0	-	-
114 >	21.5 >	Royal Mail tunnels >	0	0	0	-	-
115 >	21.6 >	Historical railways >	0	0	0	-	-
115 >	21.7 >	Railways >	0	0	0	-	-
115 >	21.8 >	Crossrail 1 >	0	0	0	0	-
115 >	21.9 >	Crossrail 2 >	0	0	0	0	-
115 >	21.10 >	HS2 >	0	0	0	0	-

Recent aerial photograph



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Capture Date: 23/05/2019

Site Area: 0.05ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 11 June 2023

Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 0.05ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 11 June 2023

Recent site history - 2012 aerial photograph



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Capture Date: 26/03/2012

Site Area: 0.05ha



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01273 257 755

Date: 11 June 2023

Recent site history - 2000 aerial photograph



Capture Date: 19/06/2000

Site Area: 0.05ha



Contact us with any questions at:

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01273 257 755

Date: 11 June 2023

Recent site history - 1999 aerial photograph



Capture Date: 10/09/1999

Site Area: 0.05ha



Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Date: 11 June 2023

OS MasterMap site plan



Site Area: 0.05ha



1 Past land use



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

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1.1 Historical industrial land uses

Records within 500m

136

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 14 >](#)

ID	Location	Land use	Dates present	Group ID
A	65m SW	Unspecified Mill	1949	751452



ID	Location	Land use	Dates present	Group ID
A	65m SW	Unspecified Mill	1967 - 1979	762487
A	74m S	Unspecified Pit	1949	694550
A	74m SW	Unspecified Mill	1938	764355
A	75m SW	Unspecified Mill	1928	711550
A	75m SW	Unspecified Disused Mill	1909	675739
A	76m SW	Unspecified Mill	1890	748614
A	82m S	Unspecified Quarry	1938	667788
A	85m S	Unspecified Pit	1928	694727
A	85m S	Old Clay Pits	1909	665449
A	122m SW	Unspecified Ground Workings	1949	647793
A	130m SW	Unspecified Pit	1928 - 1938	788665
A	132m SW	Old Clay Pits	1909	665448
C	137m N	Unspecified Pit	1928	745446
C	139m N	Unspecified Pit	1938 - 1949	718798
C	142m NW	Unspecified Old Quarry	1909	681185
C	143m NW	Unspecified Quarry	1890	667804
C	153m N	Unspecified Pit	1967 - 1979	728185
2	154m S	Gravel Pit	1851	652795
3	195m SE	Coal Pit	1851	654276
D	214m N	Unspecified Heap	1938 - 1949	699401
D	228m N	Refuse Heap	1909 - 1928	791172
D	241m N	Unspecified Old Shaft	1928 - 1938	764062
D	243m N	Unspecified Old Shaft	1909	742638
D	244m N	Unspecified Old Shaft	1890	710118
D	248m N	Unspecified Disused Shaft	1979	664288
D	250m N	Unspecified Old Shaft	1949	651799
E	262m NE	Unspecified Pit	1938 - 1949	766071
E	262m NE	Unspecified Old Quarry	1890	681146



ID	Location	Land use	Dates present	Group ID
E	263m NE	Unspecified Ground Workings	1908 - 1928	721107
D	271m N	Sandstone Quarry	1851	687553
F	288m NW	Unspecified Quarry	1890	699303
F	289m NW	Unspecified Quarry	1928	778860
F	289m NW	Unspecified Old Quarry	1909	681184
F	289m NW	Unspecified Ground Workings	1938	647792
F	292m NW	Unspecified Pit	1949	706992
F	292m NW	Unspecified Pit	1979	737038
F	294m NW	Sandstone Quarry	1851	687552
G	321m NW	Unspecified Disused Mine	1967 - 1979	759474
6	335m NW	Colliery	1851	645207
H	340m E	Brick Field	1851	668537
I	340m N	Unspecified Quarry	1909 - 1928	696724
7	341m SW	Cuttings	1909 - 1928	766523
I	341m N	Unspecified Ground Workings	1938	647794
G	342m NW	Old Colliery	1938	733582
I	346m N	Unspecified Quarry	1890	727425
J	347m S	Rope Walk	1938	708622
I	350m N	Unspecified Quarry	1949	788443
9	358m W	Nursery	1890 - 1909	772030
J	366m S	Cuttings	1949	704115
K	368m S	Railway Sidings	1949	718502
G	371m NW	Old Colliery	1909 - 1928	749000
J	371m S	Unspecified Pit	1975 - 1992	746293
J	372m S	Rope Walk	1909 - 1928	759149
I	374m N	Unspecified Disused Quarry	1979	685327
K	375m S	Unspecified Mill	1968 - 1975	762740
K	378m S	Unspecified Mill	1949	766679



ID	Location	Land use	Dates present	Group ID
J	378m S	Cuttings	1938	769528
K	378m SW	Railway Sidings	1928 - 1938	745608
K	378m SW	Unspecified Mill	1938	769557
J	380m S	Cuttings	1890	789503
J	383m S	Cuttings	1909 - 1928	789639
K	384m S	Unspecified Mill	1987 - 1992	701204
J	385m S	Cuttings	1928	717782
J	385m S	Cuttings	1908	777253
G	385m NW	Refuse Heap	1928	750244
L	386m S	Cuttings	1968	693923
L	386m S	Cuttings	1949	729630
L	386m S	Cuttings	1987 - 1992	746506
L	386m S	Cuttings	1975	766243
L	386m S	Railway Sidings	1949	768614
10	388m SW	Railway Building	1928 - 1938	728336
M	389m SW	Cuttings	1938 - 1949	736931
L	391m S	Cuttings	1938	768273
L	391m S	Railway Sidings	1938	780013
G	391m NW	Refuse Heap	1938	696197
K	392m S	Unspecified Mill	1890	783378
G	393m NW	Refuse Heap	1909	753825
G	393m NW	Old Colliery	1949	755697
K	393m S	Unspecified Mill	1909	700889
K	395m S	Unspecified Mill	1928	747645
M	396m SW	Cuttings	1909 - 1928	738948
L	396m S	Cuttings	1928	694413
L	396m S	Cuttings	1908	718301
L	400m S	Railway Sidings	1908 - 1928	779004



ID	Location	Land use	Dates present	Group ID
L	402m S	Unspecified Ground Workings	1968 - 1992	701503
L	417m SE	Cuttings	1890	750961
N	422m SE	Unspecified Works	1979	678958
N	422m SE	Unspecified Mill	1967	694148
N	422m SE	Unspecified Mill	1949	707045
G	424m NW	Unspecified Disused Shafts	1967 - 1979	778924
H	427m E	Brick Kiln	1851	658693
L	428m S	Unspecified Pit	1890	690674
L	429m S	Refuse Heap	1938	742377
N	432m SE	Colliery	1851	645210
N	432m SE	Unspecified Mill	1890	726221
L	432m S	Refuse Heap	1908 - 1928	741081
L	435m S	Refuse Heap	1908	783484
N	436m SE	Belting Mill	1908	652031
N	438m SE	Unspecified Mill	1928 - 1938	701738
G	440m NW	Unspecified Old Shaft	1890	651800
G	440m NW	Unspecified Disused Shafts	1967 - 1979	767379
N	447m SE	Unspecified Heap	1928	752219
N	448m SE	Refuse Heap	1928 - 1938	713359
N	448m SE	Refuse Heap	1908	789086
N	451m SE	Unspecified Heap	1938 - 1949	694283
O	451m SW	Unspecified Tank	1949	674707
13	452m W	Unspecified Heap	1909	650773
P	453m S	Brick Work	1949	671684
O	455m SW	Unspecified Tank	1928 - 1938	768482
P	457m S	Unspecified Works	1968 - 1975	773531
P	457m S	Brick Works	1938	716306
P	457m S	Brick Works	1909 - 1928	771809



ID	Location	Land use	Dates present	Group ID
K	457m S	Brick Works	1890	725023
15	460m SE	Cuttings	1908 - 1938	751838
L	461m S	Smithy	1908	692928
L	461m SE	Unspecified Ground Workings	1968	648011
L	462m SE	Cuttings	1890	701792
Q	469m S	Refuse Heap	1949	743289
L	475m S	Unspecified Ground Workings	1908	726520
R	481m N	Unspecified Quarry	1890	699317
R	481m N	Unspecified Quarry	1938	750603
R	484m N	Unspecified Old Quarry	1909	681182
P	484m S	Unspecified Quarry	1949	698363
R	485m N	Unspecified Quarry	1928	743807
L	485m SE	Unspecified Ground Workings	1975	648010
Q	487m S	Refuse Heap	1928 - 1938	709005
S	488m S	Unspecified Pit	1928	690675
S	489m S	Unspecified Quarry	1938	725844
R	490m N	Unspecified Quarry	1979	702003
P	492m S	Unspecified Quarry	1968	714916
R	492m N	Unspecified Quarry	1949	778714
R	494m N	Sandstone Quarry	1851	687549
P	496m S	Unspecified Workings	1992	671433
P	498m S	Railway Sidings	1938	740981
K	498m S	Unspecified Pit	1949	690701

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

15

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 14 >](#)

ID	Location	Land use	Dates present	Group ID
A	74m SW	Unspecified Tank	1958	91516
A	74m SW	Unspecified Tank	1959	102591
A	83m SW	Unspecified Tank	1890	84094
B	127m W	Unspecified Tank	1973	90915
B	127m W	Unspecified Tank	1959	92546
B	127m W	Unspecified Tank	1958	99038
B	128m W	Unspecified Tank	1982	89453
8	356m W	Unspecified Tank	1910	84190
K	415m S	Unspecified Tank	1959 - 1989	94095
K	424m S	Unspecified Tank	1910 - 1929	100577
12	444m W	Unspecified Tank	1910	84189
14	456m NW	Tanks	1958 - 1989	88719
O	459m SW	Unspecified Tank	1929	84188
N	491m SE	Tanks	1890	87652
N	496m SE	Filter Tanks	1930	88262

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

10

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'.

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
1	32m NW	Electricity Substation	1982 - 1989	59189
4	251m E	Electricity Substation	1980	45439
5	286m W	Electricity Substation	1973 - 1989	55489
11	396m NE	Electricity Substation	1974 - 1992	51189
L	432m S	Electricity Substation	1984 - 1988	58495
L	433m S	Electricity Substation	1992	54415
L	436m S	Electricity Substation	1968 - 1974	46706
K	464m S	Electricity Substation	1984 - 1988	55853
K	464m S	Electricity Substation	1989	48390
16	477m E	Electricity Substation	1980	45438

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0
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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	4
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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'.

Features are displayed on the Past land use map on [page 14 >](#)



ID	Location	Land use	Dates present	Group ID
L	436m S	Garage	1984 - 1988	18471
L	436m S	Garage	1992	17159
L	477m S	Garage	1959	15566
L	480m S	Garage	1958 - 1974	19561

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
- Historical energy features
- Historical garages

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2.1 Historical industrial land uses

Records within 500m

177

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 23](#) >

ID	Location	Land Use	Date	Group ID
B	65m SW	Unspecified Mill	1967	762487
B	65m SW	Unspecified Mill	1949	751452
B	65m SW	Unspecified Mill	1979	762487



ID	Location	Land Use	Date	Group ID
B	74m S	Unspecified Pit	1949	694550
B	74m SW	Unspecified Mill	1938	764355
B	75m SW	Unspecified Mill	1928	711550
B	75m SW	Unspecified Disused Mill	1909	675739
B	76m SW	Unspecified Mill	1890	748614
B	82m S	Unspecified Quarry	1938	667788
B	85m S	Unspecified Pit	1928	694727
B	85m S	Old Clay Pits	1909	665449
B	122m SW	Unspecified Ground Workings	1949	647793
B	130m SW	Unspecified Pit	1938	788665
B	131m SW	Unspecified Pit	1928	788665
B	132m SW	Old Clay Pits	1909	665448
D	137m N	Unspecified Pit	1928	745446
D	139m N	Unspecified Pit	1938	718798
D	142m NW	Unspecified Old Quarry	1909	681185
D	143m NW	Unspecified Quarry	1890	667804
D	144m N	Unspecified Pit	1949	718798
D	153m N	Unspecified Pit	1967	728185
D	153m N	Unspecified Pit	1979	728185
B	154m S	Gravel Pit	1851	652795
1	195m SE	Coal Pit	1851	654276
E	214m N	Unspecified Heap	1938	699401
E	223m N	Unspecified Heap	1949	699401
E	228m N	Refuse Heap	1909	791172
E	229m N	Refuse Heap	1928	791172
E	241m N	Unspecified Old Shaft	1938	764062
E	243m N	Unspecified Old Shaft	1909	742638
E	244m N	Unspecified Old Shaft	1928	764062



ID	Location	Land Use	Date	Group ID
E	244m N	Unspecified Old Shaft	1890	710118
E	248m N	Unspecified Disused Shaft	1979	664288
E	250m N	Unspecified Old Shaft	1949	651799
F	262m NE	Unspecified Pit	1949	766071
F	262m NE	Unspecified Old Quarry	1890	681146
F	263m NE	Unspecified Ground Workings	1928	721107
F	263m NE	Unspecified Ground Workings	1908	721107
F	264m NE	Unspecified Pit	1938	766071
E	271m N	Sandstone Quarry	1851	687553
H	288m NW	Unspecified Quarry	1890	699303
H	289m NW	Unspecified Quarry	1928	778860
H	289m NW	Unspecified Old Quarry	1909	681184
H	289m NW	Unspecified Ground Workings	1938	647792
H	292m NW	Unspecified Pit	1949	706992
H	292m NW	Unspecified Pit	1979	737038
H	294m NW	Sandstone Quarry	1851	687552
I	321m NW	Unspecified Disused Mine	1967	759474
3	335m NW	Colliery	1851	645207
J	340m E	Brick Field	1851	668537
K	340m N	Unspecified Quarry	1928	696724
K	340m N	Unspecified Quarry	1909	696724
L	341m SW	Cuttings	1928	766523
K	341m N	Unspecified Ground Workings	1938	647794
L	341m SW	Cuttings	1909	766523
I	342m NW	Old Colliery	1938	733582
K	346m N	Unspecified Quarry	1890	727425
M	347m S	Rope Walk	1938	708622
K	350m N	Unspecified Quarry	1949	788443



ID	Location	Land Use	Date	Group ID
N	358m W	Nursery	1890	772030
N	359m W	Nursery	1909	772030
M	366m S	Cuttings	1949	704115
O	368m S	Railway Sidings	1949	718502
I	369m NW	Unspecified Disused Mine	1979	759474
I	371m NW	Old Colliery	1909	749000
M	371m S	Unspecified Pit	1992	746293
M	371m S	Unspecified Pit	1987	746293
M	371m S	Unspecified Pit	1975	746293
M	372m S	Rope Walk	1909	759149
M	374m S	Rope Walk	1928	759149
K	374m N	Unspecified Disused Quarry	1979	685327
M	375m S	Unspecified Mill	1968	762740
M	378m S	Unspecified Mill	1949	766679
M	378m S	Cuttings	1938	769528
M	378m SW	Railway Sidings	1938	745608
M	378m SW	Unspecified Mill	1938	769557
M	379m SW	Railway Sidings	1928	745608
M	380m S	Cuttings	1890	789503
M	381m S	Railway Sidings	1949	718502
M	383m S	Cuttings	1909	789639
M	384m S	Unspecified Mill	1975	762740
M	384m S	Unspecified Mill	1992	701204
M	384m S	Unspecified Mill	1987	701204
M	385m S	Cuttings	1928	717782
M	385m S	Cuttings	1908	777253
I	385m NW	Old Colliery	1928	749000
I	385m NW	Refuse Heap	1928	750244



ID	Location	Land Use	Date	Group ID
M	385m S	Cuttings	1928	789639
P	386m S	Cuttings	1987	746506
P	386m S	Cuttings	1975	766243
P	386m S	Cuttings	1949	729630
P	386m S	Cuttings	1968	693923
P	386m S	Railway Sidings	1949	768614
P	388m SE	Cuttings	1992	746506
O	388m SW	Railway Building	1938	728336
Q	389m SW	Cuttings	1949	736931
O	391m SW	Railway Building	1928	728336
P	391m S	Cuttings	1938	768273
P	391m S	Railway Sidings	1938	780013
I	391m NW	Refuse Heap	1938	696197
M	392m S	Unspecified Mill	1890	783378
I	393m NW	Refuse Heap	1909	753825
I	393m NW	Old Colliery	1949	755697
M	393m S	Unspecified Mill	1909	700889
M	395m S	Unspecified Mill	1928	747645
Q	396m SW	Cuttings	1928	738948
P	396m S	Cuttings	1928	694413
P	396m S	Cuttings	1908	718301
Q	397m SW	Cuttings	1938	736931
P	400m S	Railway Sidings	1928	779004
P	400m S	Railway Sidings	1908	779004
Q	400m SW	Cuttings	1909	738948
P	402m S	Unspecified Ground Workings	1992	701503
P	402m S	Unspecified Ground Workings	1987	701503
P	402m S	Unspecified Ground Workings	1975	701503



ID	Location	Land Use	Date	Group ID
P	402m S	Unspecified Ground Workings	1968	701503
P	417m SE	Cuttings	1890	750961
S	422m SE	Unspecified Mill	1967	694148
S	422m SE	Unspecified Mill	1949	707045
S	422m SE	Unspecified Works	1979	678958
I	424m NW	Unspecified Disused Shafts	1979	778924
I	426m NW	Unspecified Disused Shafts	1967	778924
J	427m E	Brick Kiln	1851	658693
P	428m S	Unspecified Pit	1890	690674
P	429m S	Refuse Heap	1938	742377
S	432m SE	Colliery	1851	645210
S	432m SE	Unspecified Mill	1890	726221
P	432m S	Refuse Heap	1928	741081
P	435m S	Refuse Heap	1908	783484
S	436m SE	Belting Mill	1908	652031
S	438m SE	Unspecified Mill	1928	701738
S	438m SE	Unspecified Mill	1938	701738
I	440m NW	Unspecified Old Shaft	1890	651800
I	440m NW	Unspecified Disused Shafts	1979	767379
I	442m NW	Unspecified Disused Shafts	1967	767379
S	447m SE	Unspecified Heap	1928	752219
S	448m SE	Refuse Heap	1938	713359
S	448m SE	Refuse Heap	1908	789086
S	448m SE	Refuse Heap	1928	713359
S	451m SE	Unspecified Heap	1949	694283
T	451m SW	Unspecified Tank	1949	674707
S	451m SE	Unspecified Heap	1938	694283
6	452m W	Unspecified Heap	1909	650773



ID	Location	Land Use	Date	Group ID
M	453m S	Brick Work	1949	671684
T	455m SW	Unspecified Tank	1938	768482
M	457m S	Unspecified Works	1975	773531
M	457m S	Unspecified Works	1968	773531
M	457m S	Brick Works	1938	716306
M	457m S	Brick Works	1909	771809
M	457m S	Brick Works	1890	725023
T	457m SW	Unspecified Tank	1928	768482
V	460m SE	Cuttings	1938	751838
P	461m S	Smithy	1908	692928
P	461m SE	Unspecified Ground Workings	1968	648011
P	462m SE	Cuttings	1890	701792
W	469m S	Refuse Heap	1949	743289
V	470m SE	Cuttings	1928	751838
V	470m SE	Cuttings	1908	751838
M	471m S	Brick Works	1928	771809
P	475m S	Unspecified Ground Workings	1908	726520
X	481m N	Unspecified Quarry	1938	750603
X	481m N	Unspecified Quarry	1890	699317
X	484m N	Unspecified Old Quarry	1909	681182
M	484m S	Unspecified Quarry	1949	698363
X	485m N	Unspecified Quarry	1928	743807
P	485m SE	Unspecified Ground Workings	1975	648010
W	487m S	Refuse Heap	1938	709005
W	488m S	Refuse Heap	1928	709005
Y	488m S	Unspecified Pit	1928	690675
Y	489m S	Unspecified Quarry	1938	725844
X	490m N	Unspecified Quarry	1979	702003



ID	Location	Land Use	Date	Group ID
M	492m S	Unspecified Quarry	1968	714916
X	492m N	Unspecified Quarry	1949	778714
X	494m N	Sandstone Quarry	1851	687549
M	496m S	Unspecified Workings	1992	671433
M	498m S	Railway Sidings	1938	740981
M	498m S	Unspecified Pit	1949	690701

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

19

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 23](#) >

ID	Location	Land Use	Date	Group ID
B	74m SW	Unspecified Tank	1958	91516
B	74m SW	Unspecified Tank	1959	102591
B	83m SW	Unspecified Tank	1890	84094
C	127m W	Unspecified Tank	1973	90915
C	127m W	Unspecified Tank	1959	92546
C	127m W	Unspecified Tank	1958	99038
C	128m W	Unspecified Tank	1982	89453
4	356m W	Unspecified Tank	1910	84190
M	415m S	Unspecified Tank	1989	94095
M	415m S	Unspecified Tank	1959	94095
M	424m S	Unspecified Tank	1910	100577
M	424m S	Unspecified Tank	1929	100577
5	444m W	Unspecified Tank	1910	84189
U	456m NW	Tanks	1989	88719



ID	Location	Land Use	Date	Group ID
U	456m NW	Tanks	1959	88719
U	456m NW	Tanks	1958	88719
T	459m SW	Unspecified Tank	1929	84188
S	491m SE	Tanks	1890	87652
S	496m SE	Filter Tanks	1930	88262

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

18

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'.

Features are displayed on the Past land use - un-grouped map on [page 23 >](#)

ID	Location	Land Use	Date	Group ID
A	32m NW	Electricity Substation	1989	59189
A	33m NW	Electricity Substation	1982	59189
2	251m E	Electricity Substation	1980	45439
G	286m W	Electricity Substation	1989	55489
G	286m W	Electricity Substation	1973	55489
G	287m W	Electricity Substation	1982	55489
R	396m NE	Electricity Substation	1992	51189
R	397m NE	Electricity Substation	1974	51189
P	432m S	Electricity Substation	1984	58495
P	432m S	Electricity Substation	1988	58495
P	432m S	Electricity Substation	1988	58495
P	433m S	Electricity Substation	1992	54415
P	436m S	Electricity Substation	1974	46706
P	436m S	Electricity Substation	1968	46706
M	464m S	Electricity Substation	1984	55853



ID	Location	Land Use	Date	Group ID
M	464m S	Electricity Substation	1988	55853
M	464m S	Electricity Substation	1989	48390
7	477m E	Electricity Substation	1980	45438

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

8

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'.

Features are displayed on the Past land use - un-grouped map on [page 23 >](#)

ID	Location	Land Use	Date	Group ID
P	436m S	Garage	1988	18471
P	436m S	Garage	1988	18471
P	436m S	Garage	1984	18471
P	436m S	Garage	1992	17159
P	477m S	Garage	1959	15566
P	480m S	Garage	1974	19561
P	480m S	Garage	1968	19561
P	480m S	Garage	1958	19561

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Active or recent landfill
- Historical landfill (EA/NRW)
- Historical landfill (LA/OS)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

1

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

Features are displayed on the Waste and landfill map on [page 33](#) >

ID	Location	Details
A	377m S	Operator: Rochdale M B C Site Address: Fieldhouse Road, Rochdale, Lancashire, OL12 WML Number: 53951 EPR Reference: RMB001 Landfill type: A05: Landfill taking Non-Biodegradeable Wastes Status: Closure IPPC Reference: - EPR Number: EA/EPR/LP3791CR/A001

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

2

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

Features are displayed on the Waste and landfill map on [page 33](#) >

ID	Location	Site address	Source	Data type
C	483m SE	Refuse Tip	1973 mapping	Polygon
C	483m SE	Refuse Tip	1967 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

3

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.

Features are displayed on the Waste and landfill map on [page 33](#) >

ID	Location	Details		
1	200m N	Site Address: Stoneyhey Farm, Off Whitworth Road, Middle Healey, Rochdale, Greater Manchester Licence Holder Address: Stoneyhey Farm, Healey, Rochdale	Waste Licence: Yes Site Reference: D034, RD/LIC/006/76 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 04/10/1977 Licence Surrender: 08/05/1985	Operator: - Licence Holder: P Booth First Recorded 01/01/1940 Last Recorded: 31/12/1984



ID	Location	Details		
2	483m S	Site Address: Land Opposite Oxford Mill, Bentley Street, Rochdale Licence Holder Address: Fieldhouse Industrial Estate, Fieldhouse Road, Rochdale	Waste Licence: Yes Site Reference: RD/LIC/343/84, D008 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 22/07/1984 Licence Surrender: 22/05/1990	Operator: - Licence Holder: J Bright and Brothers Limited First Recorded 01/08/1984 Last Recorded: 30/04/1990
A	485m SE	Site Address: Fieldhouse Mills, Fieldhouse Road, Rochdale, Greater Manchester Licence Holder Address: PO Box 26, Rochdale	Waste Licence: Yes Site Reference: RD/LIC/144/78,D001 Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 05/10/1978 Licence Surrender: -	Operator: - Licence Holder: J Bright and Brothers Limited First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	0
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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
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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	4
----------------------------	----------

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 33 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
B	407m SE	38, GALE STREET, ROCHDALE, OL12 0BG	WEX270378	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	407m SE	38, GALE STREET, ROCHDALE, OL12 0BG	WEX270378	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
B	407m SE	38, GALE STREET, ROCHDALE, OL12 0BG	WEX130195	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	407m SE	38, GALE STREET, ROCHDALE, OL12 0BG	WEX130195	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)

4.1 Recent industrial land uses

Records within 250m

6

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 37](#) >

ID	Location	Company	Address	Activity	Category
1	29m W	Electricity Sub Station	Greater Manchester, OL12	Electrical Features	Infrastructure and Facilities
A	104m SW	Suite Dreams UK Ltd	Quarry Mill, Whitworth Road, Rochdale, Greater Manchester, OL12 0SN	Beds and Bedding	Consumer Products



ID	Location	Company	Address	Activity	Category
A	117m SW	Electricity Sub Station	Greater Manchester, OL12	Electrical Features	Infrastructure and Facilities
2	162m S	Mr Knife Guy	72, Brookdale, Rochdale, Greater Manchester, OL12 0UY	Tool Repairs	Repair and Servicing
3	190m W	Gas Governor	Greater Manchester, OL12	Gas Features	Infrastructure and Facilities
4	249m E	Electricity Sub Station	Greater Manchester, OL12	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 37 >](#)

ID	Location	Company	Address	LPG	Status
B	453m S	TEXACO	Whitworth Road, Rochdale, Greater Manchester, OL12 0TB	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.



4.5 Sites determined as Contaminated Land

Records within 500m

0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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



4.10 Licensed industrial activities (Part A(1))

Records within 500m**0**

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

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

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

Records within 500m**1**

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.

Features are displayed on the Current industrial land use map on [page 37 >](#)

ID	Location	Address	Details	
B	490m S	Oxford Pfs, Whitworth Road, Rochdale, OL12 6ER	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m**0**

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m**0**

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

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



4.14 Pollutant release to surface waters (Red List)

Records within 500m**0**

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

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

4.15 Pollutant release to public sewer

Records within 500m**0**

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m**0**

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

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

4.17 List 2 Dangerous Substances

Records within 500m**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.

4.18 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.



4.19 Pollution inventory substances

Records within 500m

0

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

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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

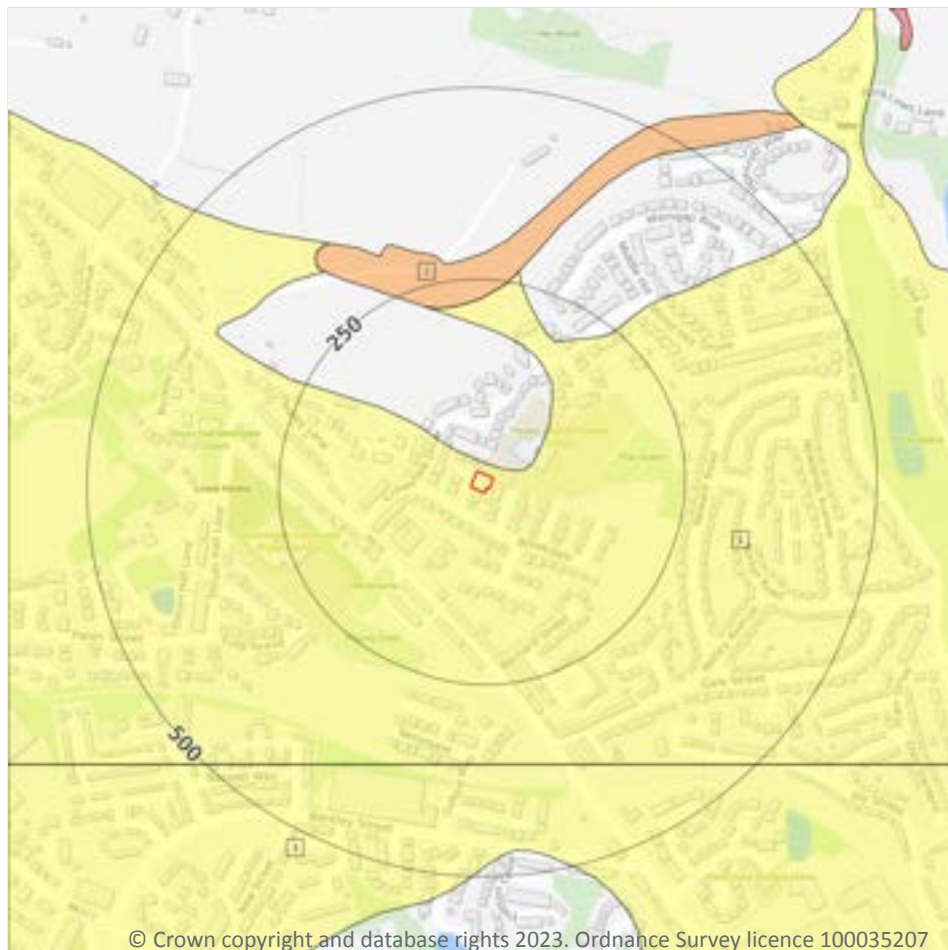
Records within 500m

0

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

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

5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

3

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 43](#) >

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	216m N	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers



ID	Location	Designation	Description
3	354m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 45](#) >

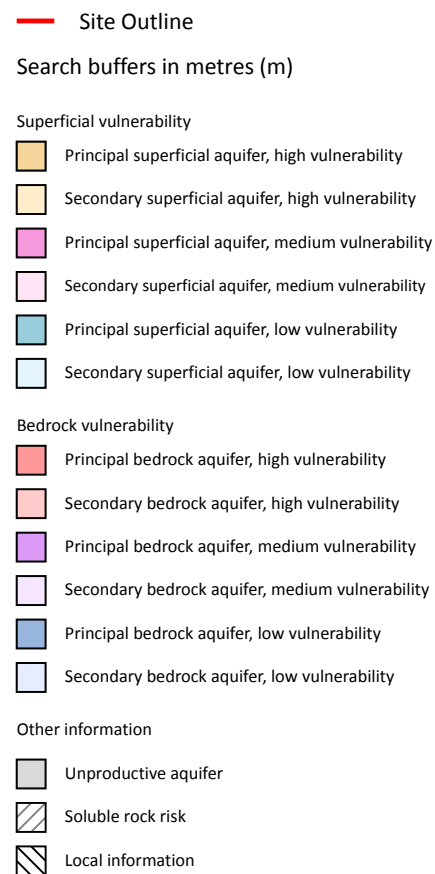
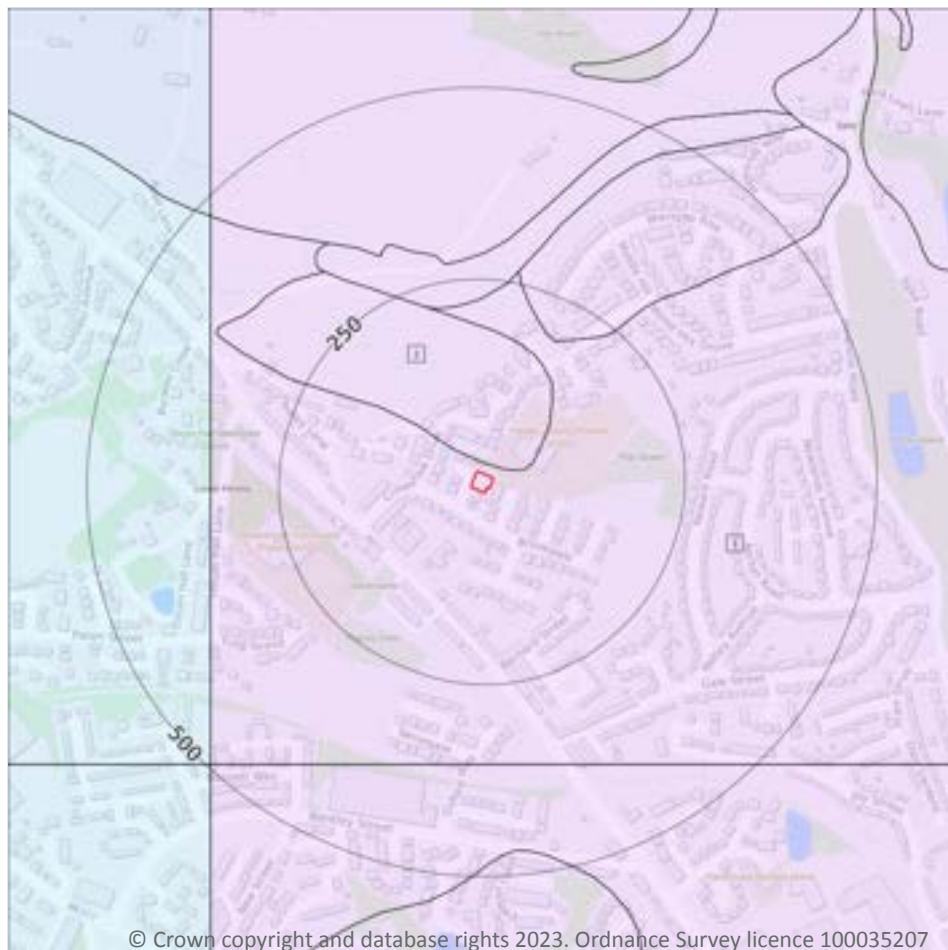
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	354m S	Secondary 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 47](#) >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
2	13m N	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0
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This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

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

5.5 Groundwater vulnerability- local information

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

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

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

Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

5

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 49](#) >

ID	Location	Details	
-	1637m N	Status: Historical Licence No: 2569002155 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT MOORSIDE FARM, WARDLE, ROCHDALE, LANCASHIRE" Data Type: Point Name: ROWLEY Easting: 389600 Northing: 417000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -
-	1637m N	Status: Historical Licence No: 2569002155 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT MOORSIDE FARM, WARDLE, ROCHDALE, LANCASHIRE Data Type: Point Name: ROWLEY Easting: 389600 Northing: 417000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -
-	1967m S	Status: Historical Licence No: 2569002050 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, SPOTLAND, ROCHDALE" Data Type: Point Name: ALEXANDER DREW & SONS LTD Easting: 388700 Northing: 413500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 02/05/2000 Version End Date: -
-	1967m S	Status: Historical Licence No: 2569002050 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, SPOTLAND, ROCHDALE Data Type: Point Name: ALEXANDER DREW LTD. Easting: 388700 Northing: 413500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2003 Version End Date: -



ID	Location	Details	
-	1967m S	Status: Historical Licence No: 2569002050 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES SPOTLAND ROCHDALE Data Type: Point Name: ALEXANDER DREW LTD Easting: 388700 Northing: 413500	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2100 Original Application No: - Original Start Date: 10/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2003 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

14

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 49 >](#)

ID	Location	Details	
A	651m SE	Status: Historical Licence No: 2569002268 Details: Non-Evaporative Cooling Direct Source: "Surface, Non-Tidal - North West Region" Point: "FOXHOLES BROOK AT FIELDHOUSE INDUSTRIAL ESTATE, ROCHDALE" Data Type: Point Name: RIVERSIDE TRADING LTD Easting: 389700 Northing: 414800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 10/11/1998 Version End Date: -
A	651m SE	Status: Historical Licence No: 2569002268 Details: Non-Evaporative Cooling Direct Source: Surface, Non-Tidal - North West Region Point: FOXHOLES BROOK AT FIELDHOUSE INDUSTRIAL ESTATE, ROCHDALE Data Type: Point Name: RIVERSIDE TRADING LTD Easting: 389700 Northing: 414800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 10/11/1998 Version End Date: -



ID	Location	Details	
-	831m E	Status: Historical Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY[12" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 390200 Northing: 415400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -
-	831m E	Status: Historical Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY[12 Data Type: Point Name: United Utilities Water Ltd Easting: 390200 Northing: 415400	Annual Volume (m ³): 5909800 Max Daily Volume (m ³): 5909800 Original Application No: 1592 Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -
-	855m N	Status: Historical Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY*30" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 389600 Northing: 416200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -
-	855m N	Status: Historical Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY*30 Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 389600 Northing: 416200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -



ID	Location	Details	
-	855m N	Status: Historical Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY Data Type: Point Name: United Utilities Water Ltd Easting: 389600 Northing: 416200	Annual Volume (m ³): 5909800 Max Daily Volume (m ³): 5909800 Original Application No: 1592 Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -
-	951m N	Status: Historical Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY107 Data Type: Point Name: NORTH WEST WATER LTD Easting: 389600 Northing: 416300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -
-	951m N	Status: Historical Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY\$107" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 389600 Northing: 416300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -
-	951m N	Status: Historical Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY\$107 Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 389600 Northing: 416300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -

ID	Location	Details	
-	951m N	Status: Historical Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY Data Type: Point Name: United Utilities Water Ltd Easting: 389600 Northing: 416300	Annual Volume (m ³): 5909800 Max Daily Volume (m ³): 5909800 Original Application No: 1592 Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -
-	1428m SW	Status: Historical Licence No: 2569002018 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: LODGE FED BY R SPODDEN AT ROCHDALE Data Type: Point Name: FLEXITALLIC LTD Easting: 388200 Northing: 414500	Annual Volume (m ³): 1500211.393 Max Daily Volume (m ³): 4546.095 Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 11/04/1997 Version End Date: -
-	1428m SW	Status: Historical Licence No: 2569002018 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: LODGE FED BY R SPODDEN AT ROCHDALE Data Type: Point Name: FLEXITALLIC LTD Easting: 388200 Northing: 414500	Annual Volume (m ³): 1500211.393 Max Daily Volume (m ³): 4546.095 Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 11/04/1997 Version End Date: -
-	1428m SW	Status: Historical Licence No: 2569002018 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: LODGE FED BY R SPODDEN AT ROCHDALE Data Type: Point Name: FLEXITALLIC LTD Easting: 388200 Northing: 414500	Annual Volume (m ³): 1500211.393 Max Daily Volume (m ³): 4546.095 Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 11/04/1997 Version End Date: -

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



5.8 Potable abstractions

Records within 2000m

9

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 49 >](#)

ID	Location	Details	
-	831m E	Status: Historical Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY[12]" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 390200 Northing: 415400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -
-	831m E	Status: Active Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY[12] Data Type: Point Name: United Utilities Water Ltd Easting: 390200 Northing: 415400	Annual Volume (m ³): 5909800 Max Daily Volume (m ³): 5909800 Original Application No: 1592 Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -
-	855m N	Status: Historical Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY*30" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 389600 Northing: 416200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -



ID	Location	Details	
-	855m N	Status: Historical Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY*30 Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 389600 Northing: 416200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -
-	855m N	Status: Active Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY Data Type: Point Name: United Utilities Water Ltd Easting: 389600 Northing: 416200	Annual Volume (m ³): 5909800 Max Daily Volume (m ³): 5909800 Original Application No: 1592 Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -
-	951m N	Status: Historical Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY107 Data Type: Point Name: NORTH WEST WATER LTD Easting: 389600 Northing: 416300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -
-	951m N	Status: Historical Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY\$107" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 389600 Northing: 416300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -



ID	Location	Details	
-	951m N	Status: Historical Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY\$107 Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 389600 Northing: 416300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -
-	951m N	Status: Active Licence No: 2569002193 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY Data Type: Point Name: United Utilities Water Ltd Easting: 389600 Northing: 416300	Annual Volume (m ³): 5909800 Max Daily Volume (m ³): 5909800 Original Application No: 1592 Original Start Date: 22/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/03/1966 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	0
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m	0
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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



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

6.1 Water Network (OS MasterMap)

Records within 250m

1

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 58 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
A	244m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.



6.2 Surface water features

Records within 250m

1

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 58 >](#)

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 58 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Spodden	GB112069064730	Roch Irk Medlock	Irwell

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 58 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1173m SW	River	Spodden	GB112069064730 ↗	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 58](#) >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Northern Manchester Carboniferous Aquifers	GB41202G101800 ↗	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



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Low

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 65 >](#)

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)
- ▤ Designated Ancient Woodland
- ▤ Green Belt

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

1

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.

Features are displayed on the Environmental designations map on [page 66 >](#)

ID	Location	Name	Data source
4	1163m W	Healey Dell	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

6

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 66 >](#)

ID	Location	Name	Woodland Type
B	1212m E	Buckley Wood	Ancient & Semi-Natural Woodland
B	1223m E	Buckley Wood	Ancient Replanted Woodland
-	1368m W	Unknown	Ancient & Semi-Natural Woodland
-	1431m NW	Unknown	Ancient & Semi-Natural Woodland
-	1572m W	Unknown	Ancient & Semi-Natural Woodland
-	1801m 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

4

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

Features are displayed on the Environmental designations map on [page 66 >](#)

ID	Location	Name	Local Authority name
1	100m NW	Merseyside and Greater Manchester	Rochdale
2	689m N	Merseyside and Greater Manchester	Rossendale
3	895m NW	Merseyside and Greater Manchester	Rochdale
A	1095m W	Merseyside and Greater Manchester	Rochdale

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



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

10.17 SSSI Impact Risk Zones

Records on site

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 71](#) >

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t). Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.

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

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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



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

11.5 Conservation Areas

Records within 250m

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



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

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12.1 Agricultural Land Classification

Records within 250m

2

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 75 >](#)

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.



ID	Location	Classification	Description
2	100m SW	Urban	-

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

0

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.

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

0

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

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

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14.1 10k Availability

Records within 500m

2

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

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 78 >](#)

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD81NE
2	354m S	Full	Full	Full	Full	SD81SE

This data is sourced from the British Geological Survey.



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



— Site Outline
Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

16

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 79](#) >

ID	Location	LEX Code	Description	Rock description
1	151m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
2	179m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	218m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	273m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit

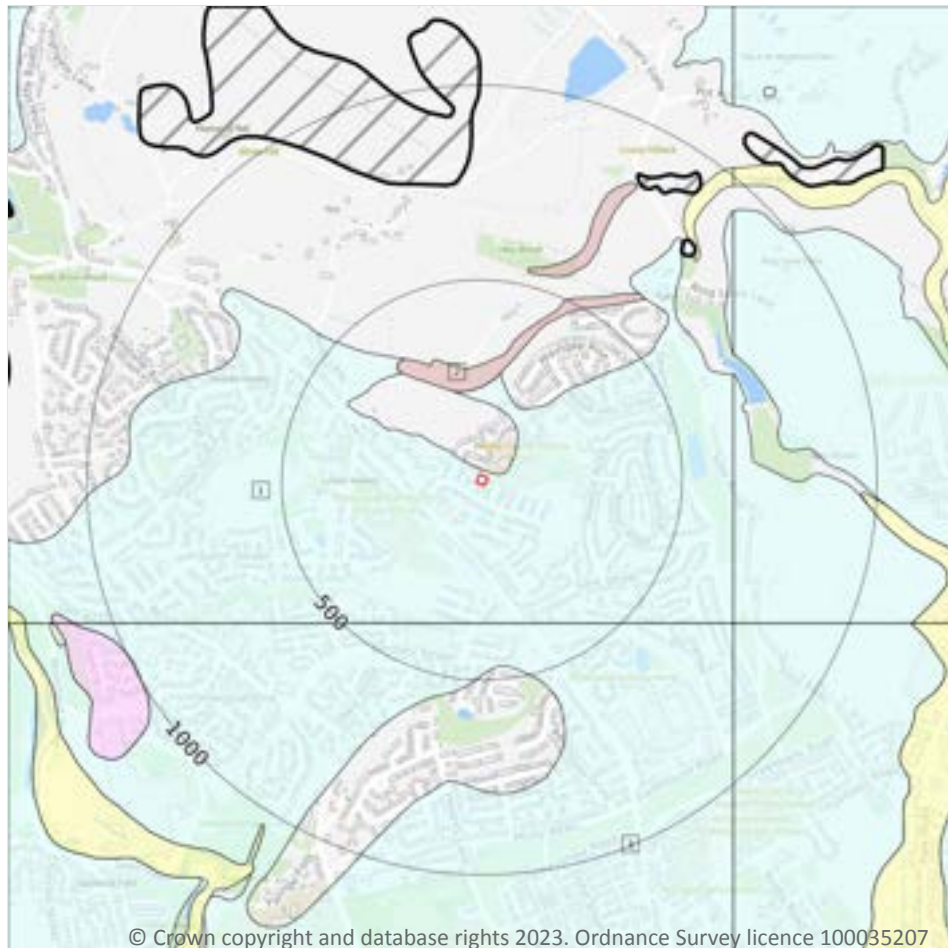


ID	Location	LEX Code	Description	Rock description
B	287m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
C	318m SW	WGR-VOID	Worked Ground (Undivided)	Void
4	362m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	365m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	366m S	WGR-VOID	Worked Ground (Undivided)	Void
5	371m S	WGR-VOID	Worked Ground (Undivided)	Void
B	372m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	389m SE	WGR-VOID	Worked Ground (Undivided)	Void
C	406m SW	WGR-VOID	Worked Ground (Undivided)	Void
7	467m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
8	484m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
9	497m SW	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

3

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 81](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
2	216m N	HEAD-DMTN	Head - Diamicton	Diamicton
3	354m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton



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

15

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 83](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	HER-SDST	Helpet Edge Rock - Sandstone	Langsettian Sub-age
2	78m SW	MLRS-SDST	Milnrow Sandstone - Sandstone	Langsettian Sub-age
4	95m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age



ID	Location	LEX Code	Description	Rock age
5	125m NE	HER-SDST	Helpet Edge Rock - Sandstone	Langsettian Sub-age
7	168m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
9	196m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
10	201m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
12	270m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
14	354m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
16	367m SE	DF-SDST	Darwen Flags - Sandstone	Langsettian Sub-age
17	369m NW	GAS-SDST	Great Arc Sandstone - Sandstone	Langsettian Sub-age
18	459m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
19	477m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
21	492m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
23	499m SE	DF-SDST	Darwen Flags - Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

8

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 83](#) >

ID	Location	Category	Description
3	78m SW	FAULT	Normal fault, inferred
6	125m NE	FAULT	Normal fault, inferred
8	185m SE	ROCK	Coal seam, inferred



ID	Location	Category	Description
11	239m N	LANDFORM	Glacial meltwater channel, undifferentiated, centre line
13	309m E	ROCK	Coal seam, inferred
15	358m NW	ROCK	Coal seam, inferred
20	480m NW	ROCK	Coal seam, inferred
22	492m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side

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.

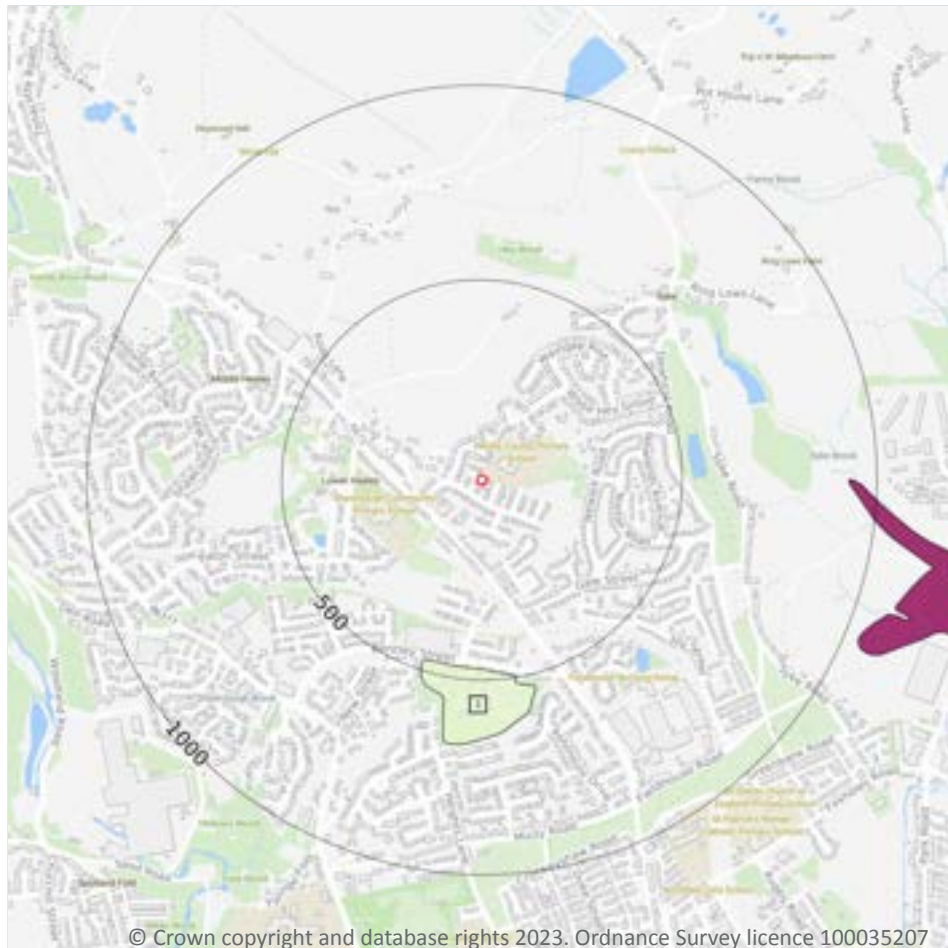
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 86](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	Full	EW076_rochdale_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 87](#) >

ID	Location	LEX Code	Description	Rock description
1	468m S	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

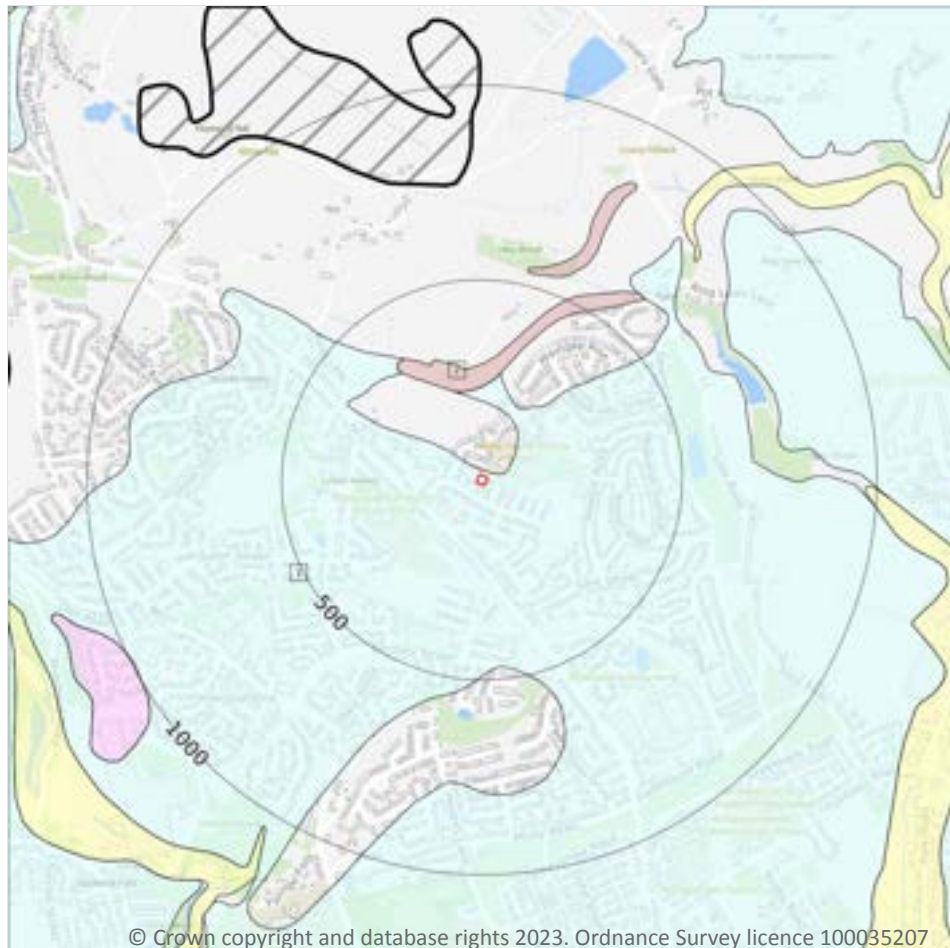
0

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



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

2

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.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 89](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON
2	216m N	HEAD-DMTN	HEAD	DIAMICTON

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m**1**

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

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

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

13

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 91](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	HER-SDST	HELPET EDGE ROCK - SANDSTONE	WESTPHALIAN
2	77m SW	MLRS-SDST	MILNROW SANDSTONE - SANDSTONE	WESTPHALIAN
4	95m S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
5	124m NE	HER-SDST	HELPET EDGE ROCK - SANDSTONE	WESTPHALIAN
7	184m SE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	196m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	201m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
12	309m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
14	359m NW	GAS-SDST	GREAT ARC SANDSTONE - SANDSTONE	WESTPHALIAN
16	367m SE	DF-SDST	DARWEN FLAGS - SANDSTONE	WESTPHALIAN
17	478m SE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
18	480m NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
20	499m SE	DF-SDST	DARWEN FLAGS - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

1

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

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

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

7

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 91](#) >



ID	Location	Category	Description
3	77m SW	FAULT	Fault, inferred
6	124m NE	FAULT	Fault, inferred
8	184m SE	ROCK	Coal seam, inferred
11	239m N	LANDFORM	Glacial meltwater channel centre line, undifferentiated
13	309m E	ROCK	Coal seam, inferred
15	359m NW	ROCK	Coal seam, inferred
19	480m NW	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes

16.1 BGS Boreholes

Records within 250m

0

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.

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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

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).

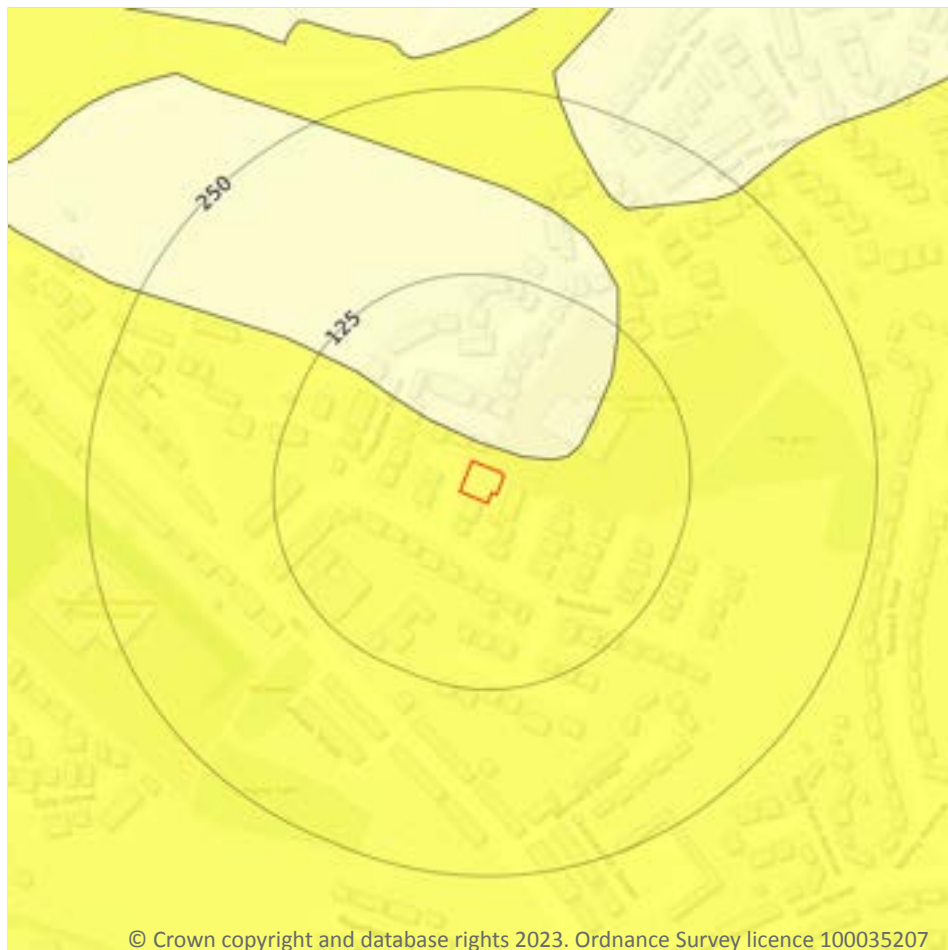
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 95 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Running sands map on [page 96](#) >

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



Location	Hazard rating	Details
13m N	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

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 98](#) >

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

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.

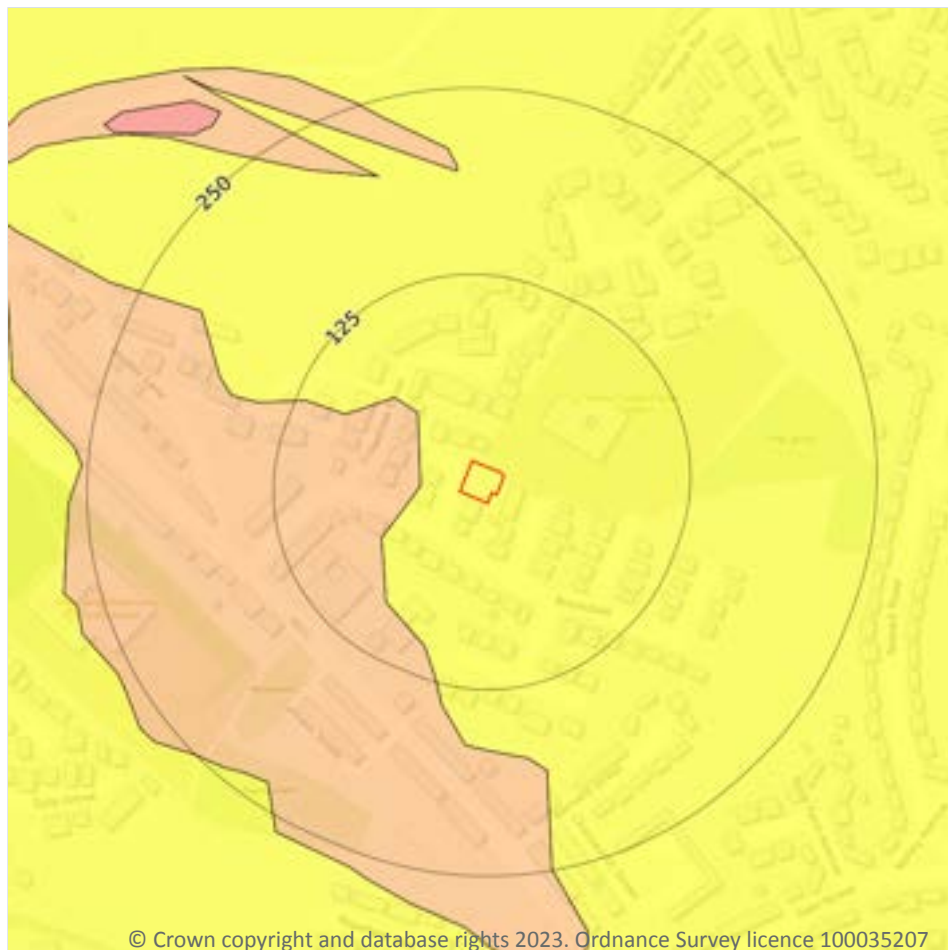
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 99 >](#)

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 100](#) >

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
27m W	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



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

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 102 >](#)

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

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



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

18.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

7

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

Features are displayed on the Mining, ground workings and natural cavities map on [page 104 >](#)

ID	Location	Details	Description
A	159m S	Name: Lower Healey Gravel Pit Address: Healey, ROCHDALE, Lancashire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
B	168m N	Name: Lower Healey Address: Healey, ROCHDALE, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
D	237m NE	Name: Syke Address: Healey, ROCHDALE, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
C	290m N	Name: Lower Healey Address: Healey, ROCHDALE, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
E	293m NW	Name: Lower Healey Address: Healey, ROCHDALE, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
G	386m N	Name: Healey Stones Address: Healey, ROCHDALE, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
F	394m E	Name: Hazel Grove Address: Healey, ROCHDALE, Lancashire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	23
----------------------------	-----------

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

Features are displayed on the Mining, ground workings and natural cavities map on [page 104 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
A	69m SW	Reservoir	1949	1:10560
A	74m S	Unspecified Pit	1949	1:10560
A	78m SW	Reservoir	1938	1:10560
A	78m SW	Reservoir	1928	1:10560
A	82m S	Unspecified Quarry	1938	1:10560
A	85m S	Unspecified Pit	1928	1:10560
A	85m S	Old Clay Pits	1909	1:10560
A	122m SW	Unspecified Ground Workings	1949	1:10560
A	130m SW	Unspecified Pit	1938	1:10560
A	131m SW	Unspecified Pit	1928	1:10560
A	132m SW	Old Clay Pits	1909	1:10560
B	137m N	Unspecified Pit	1928	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	139m N	Unspecified Pit	1938	1:10560
B	142m NW	Unspecified Old Quarry	1909	1:10560
B	143m NW	Unspecified Quarry	1890	1:10560
B	144m N	Unspecified Pit	1949	1:10560
B	153m N	Unspecified Pit	1967	1:10560
B	153m N	Unspecified Pit	1979	1:10000
A	154m S	Gravel Pit	1851	1:10560
C	214m N	Unspecified Heap	1938	1:10560
C	223m N	Unspecified Heap	1949	1:10560
C	228m N	Refuse Heap	1909	1:10560
C	229m N	Refuse Heap	1928	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

18

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

Features are displayed on the Mining, ground workings and natural cavities map on [page 104 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
C	241m N	Unspecified Old Shaft	1938	1:10560
C	243m N	Unspecified Old Shaft	1909	1:10560
C	244m N	Unspecified Old Shaft	1928	1:10560
C	244m N	Unspecified Old Shaft	1890	1:10560
C	248m N	Unspecified Disused Shaft	1979	1:10000
C	250m N	Unspecified Old Shaft	1949	1:10560
I	369m NW	Unspecified Disused Mine	1979	1:10000
I	371m NW	Old Colliery	1909	1:10560
I	385m NW	Old Colliery	1928	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
I	393m NW	Old Colliery	1949	1:10560
I	424m NW	Unspecified Disused Shafts	1979	1:10000
I	426m NW	Unspecified Disused Shafts	1967	1:10560
I	440m NW	Unspecified Old Shaft	1890	1:10560
I	440m NW	Unspecified Disused Shafts	1979	1:10000
I	442m NW	Unspecified Disused Shafts	1967	1:10560
-	826m S	Unspecified Old Shaft	1890	1:10560
-	842m S	Unspecified Disused Shaft	1968	1:10560
-	854m S	Unspecified Old Shaft	1928	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

1

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.

Features are displayed on the Mining, ground workings and natural cavities map on [page 104 >](#)

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
R	454m S	Rochdale Brick	Shale, clay	Surface mineral working	Valid	22/6/48

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

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

This data is sourced from the British Geological Survey.



18.7 Mining cavities

Records within 1000m

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.

18.8 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site

1

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

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

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site

0

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

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



18.11 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.13 Clay mining

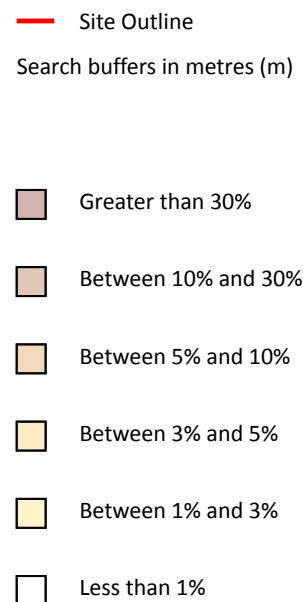
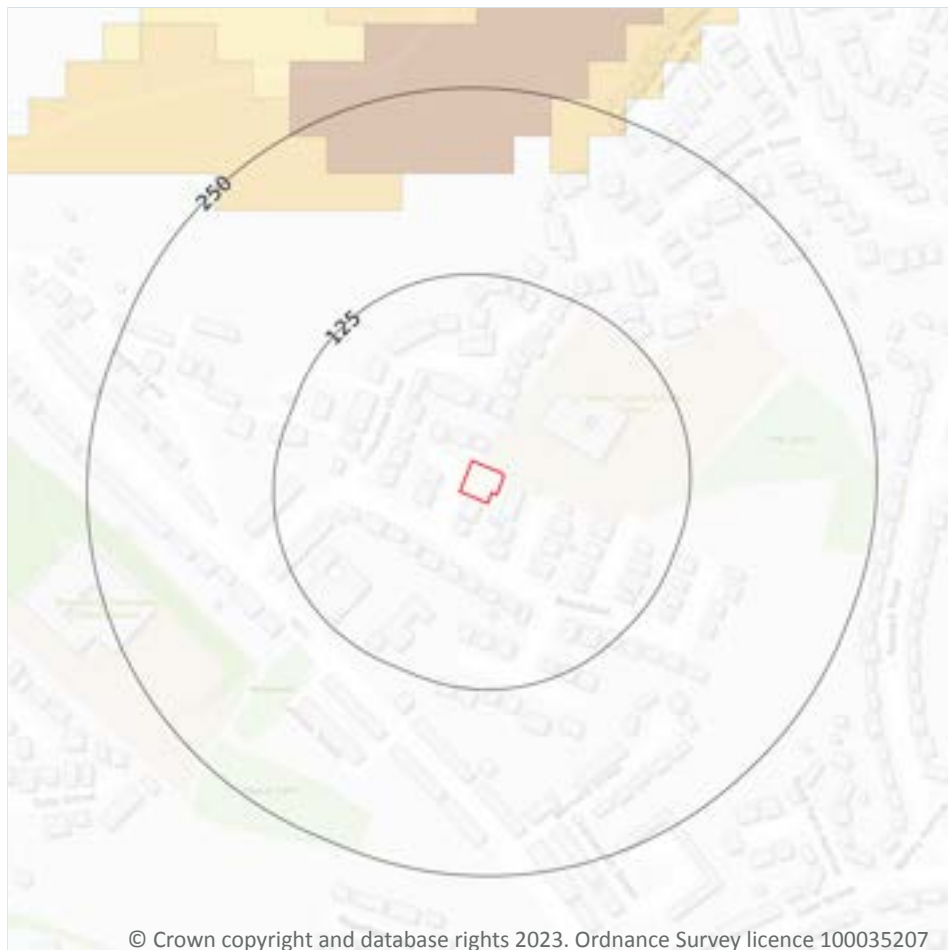
Records on site	0
-----------------	---

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

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



19 Radon



19.1 Radon

Records on site

1

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 111](#) >

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



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



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

2

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m**0**

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m**0**

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m**0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m**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.

21.5 Royal Mail tunnels

Records within 250m**0**

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



This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

21.7 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.

21.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

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Appendix B2 – Historical Ordnance Survey Maps

Site Details:

27, BROOKDALE, ROCHDALE,
OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: County Series

Map date: 1890

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1890
Revised 1890
Edition N/A
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Surveyed 1890
Revised 1890
Edition N/A
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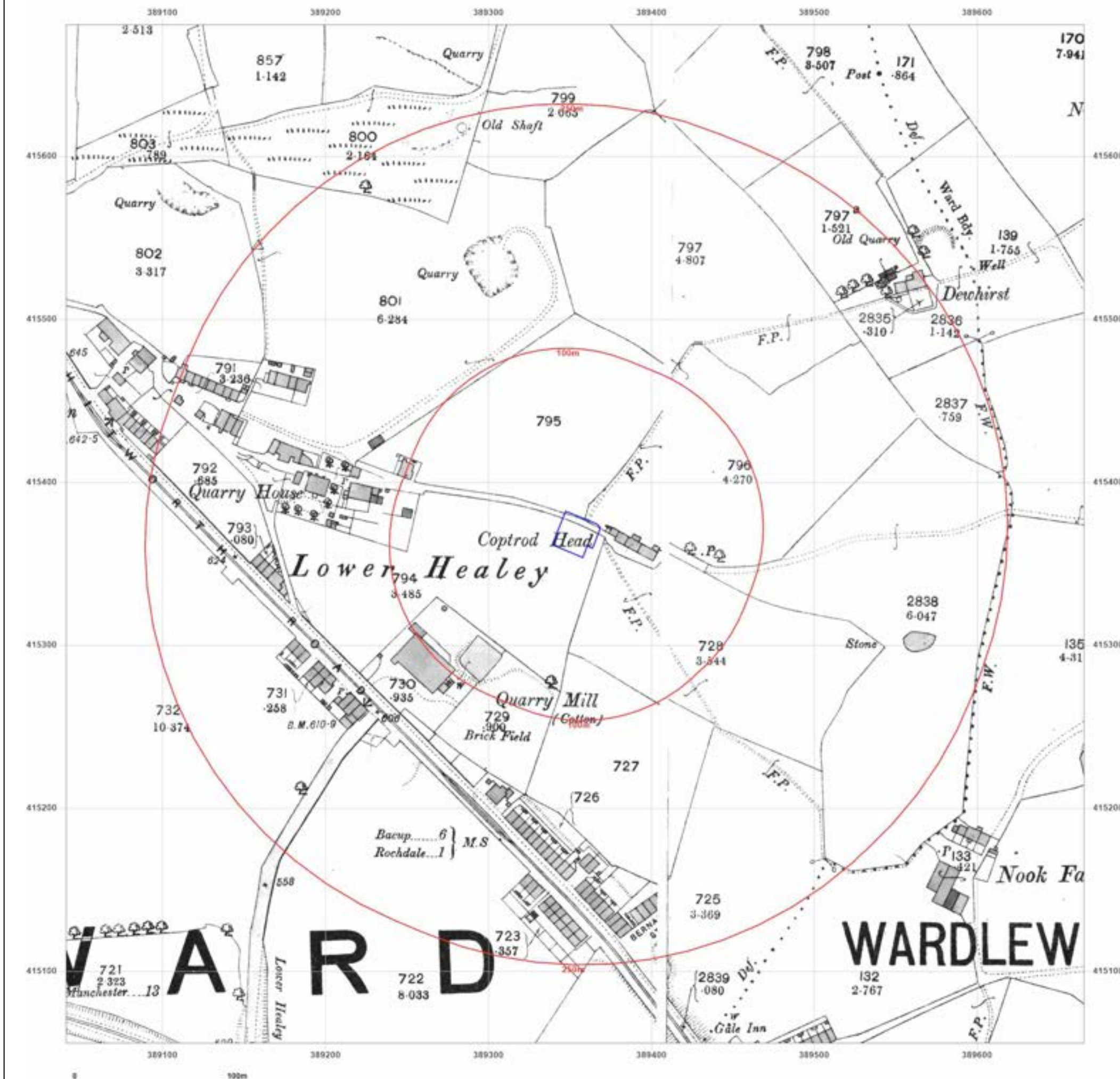


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Site Details:

27, BROOKDALE, ROCHDALE,
OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: County Series

Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



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Edition N/A
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Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

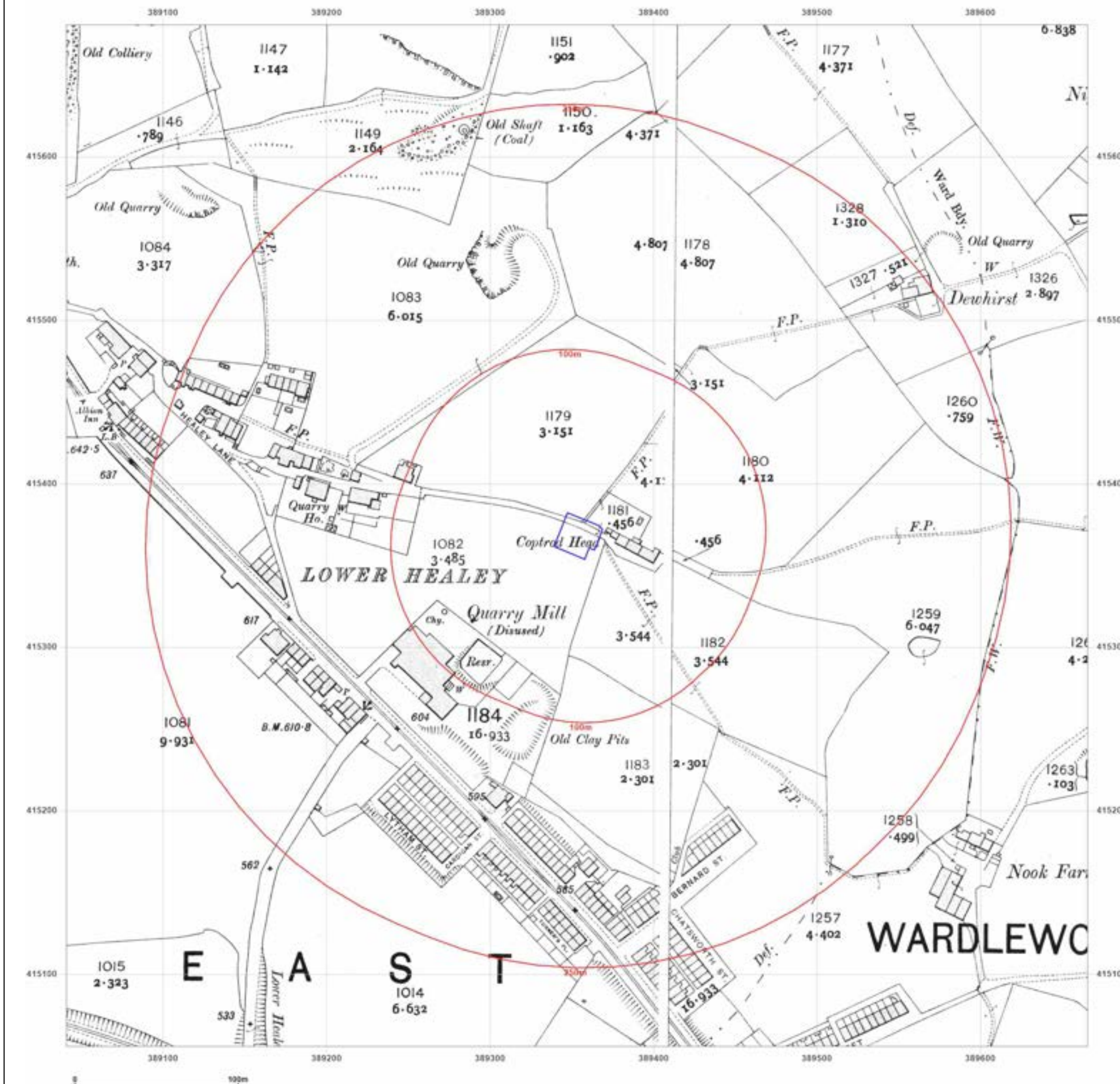


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Site Details:

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OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: County Series

Map date: 1929-1930

Scale: 1:2,500

Printed at: 1:2,500



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Edition N/A
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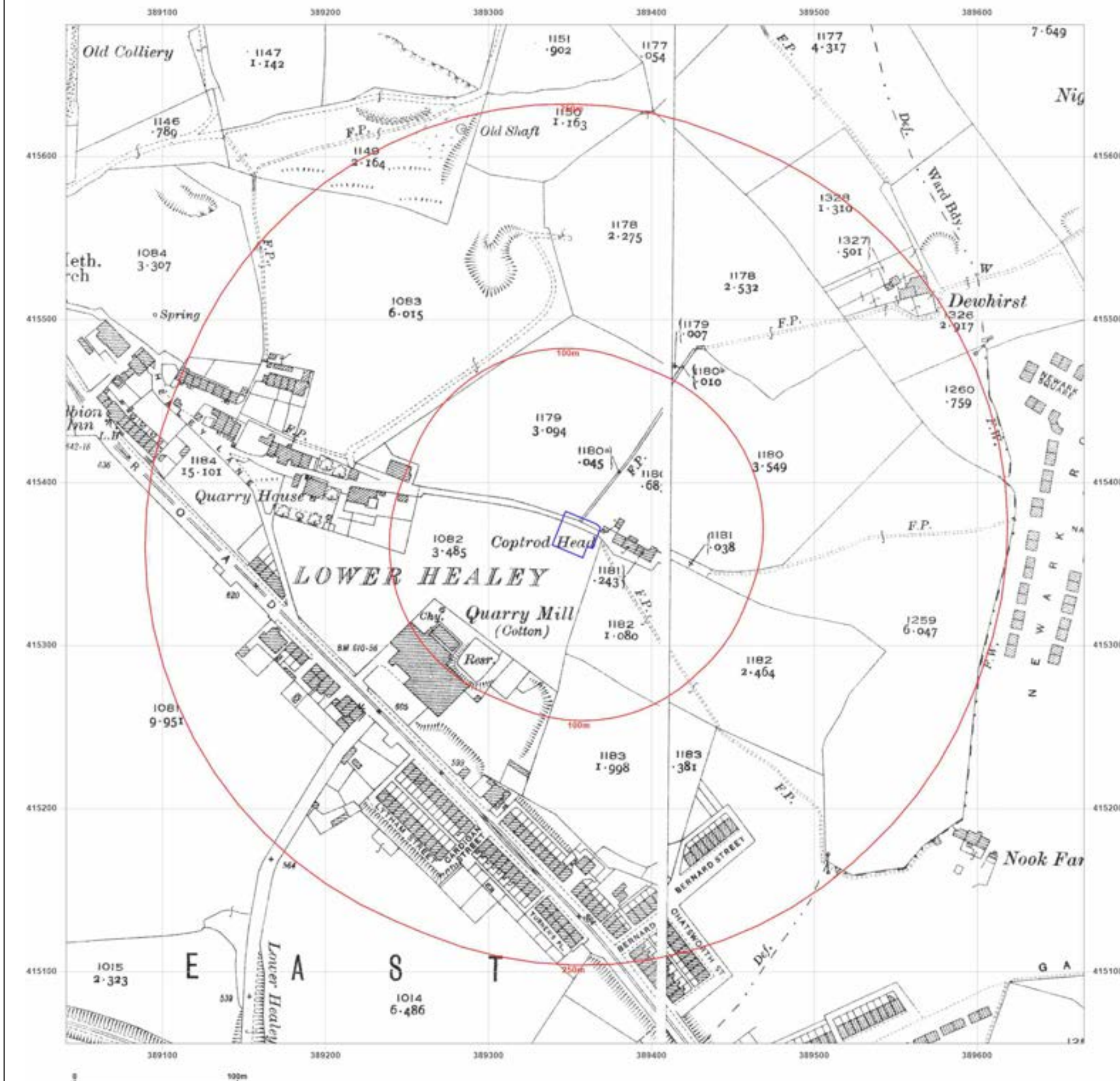


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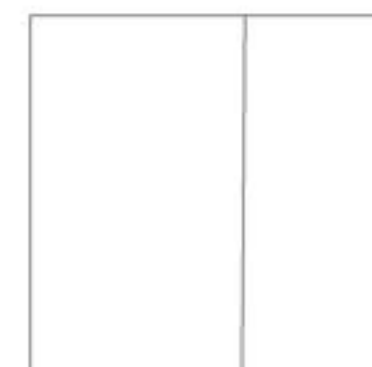
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Map Name: County Series

Map date: 1939

Scale: 1:2,500

Printed at: 1:2,500



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Edition N/A
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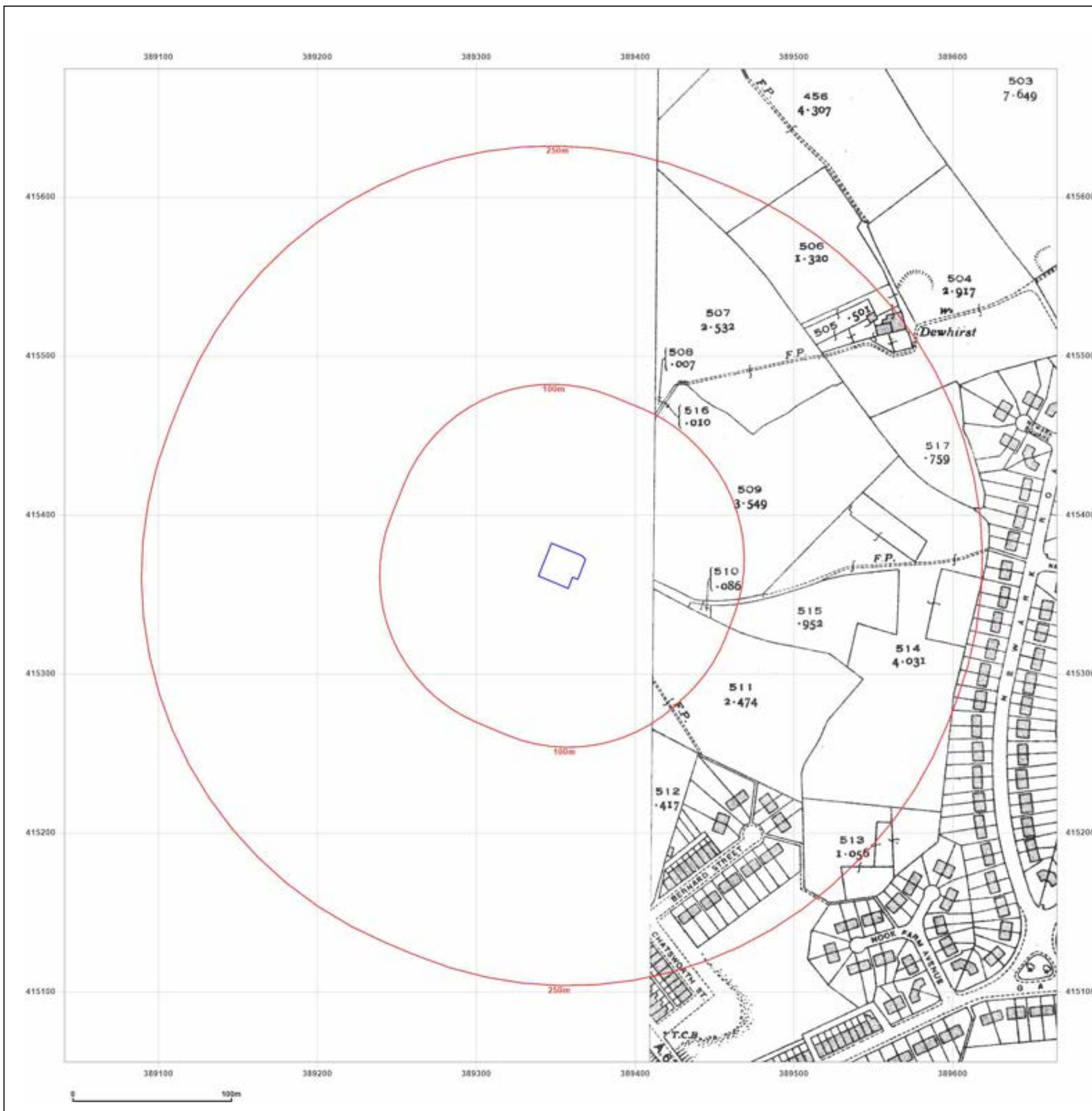


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Site Details:

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OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: National Grid

Map date: 1959

Scale: 1:1,250

Printed at: 1:2,000



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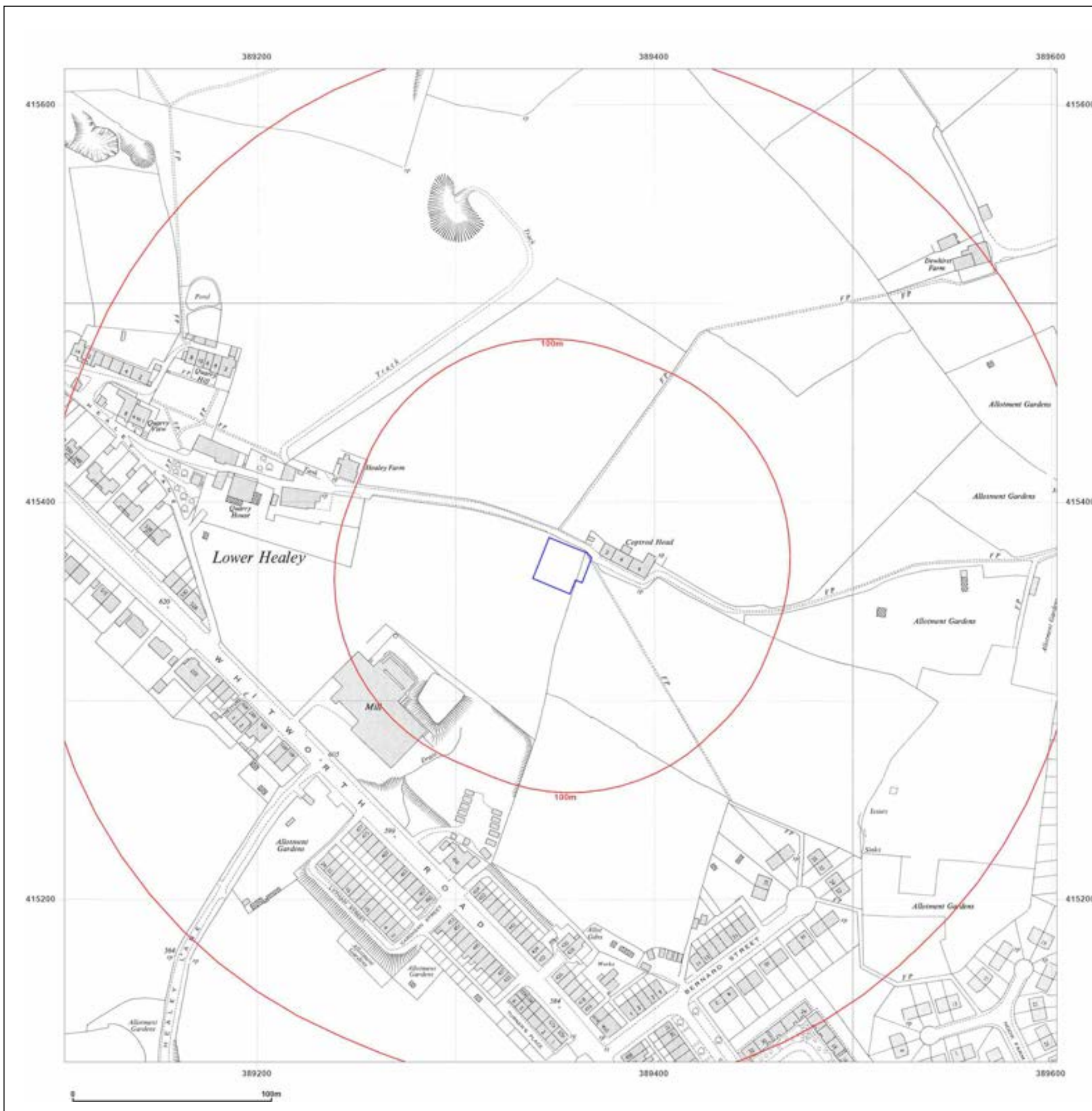


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OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: National Grid

Map date: 1960

Scale: 1:2,500

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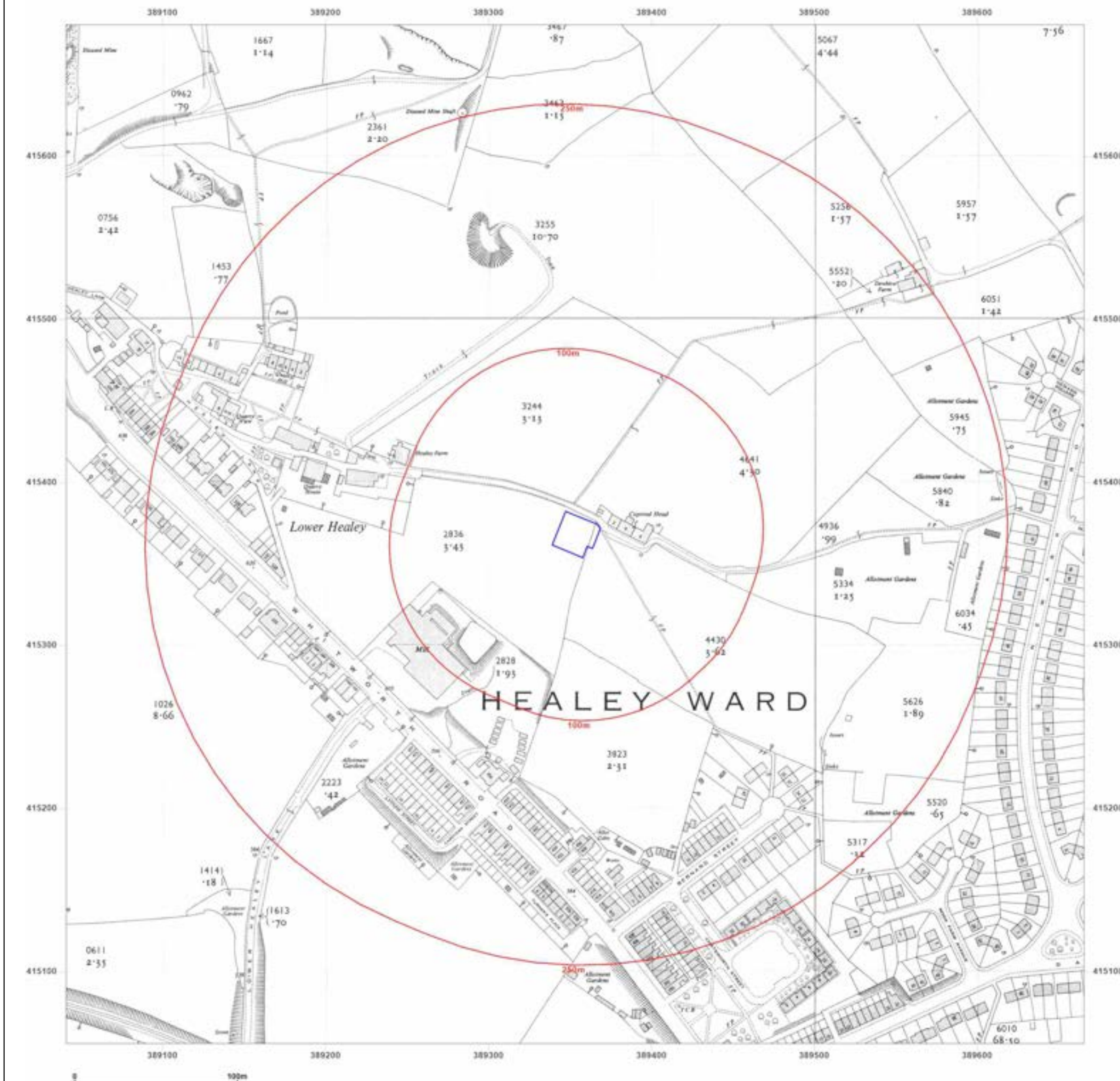


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OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: National Grid

Map date: 1973-1974

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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Levelled 1962

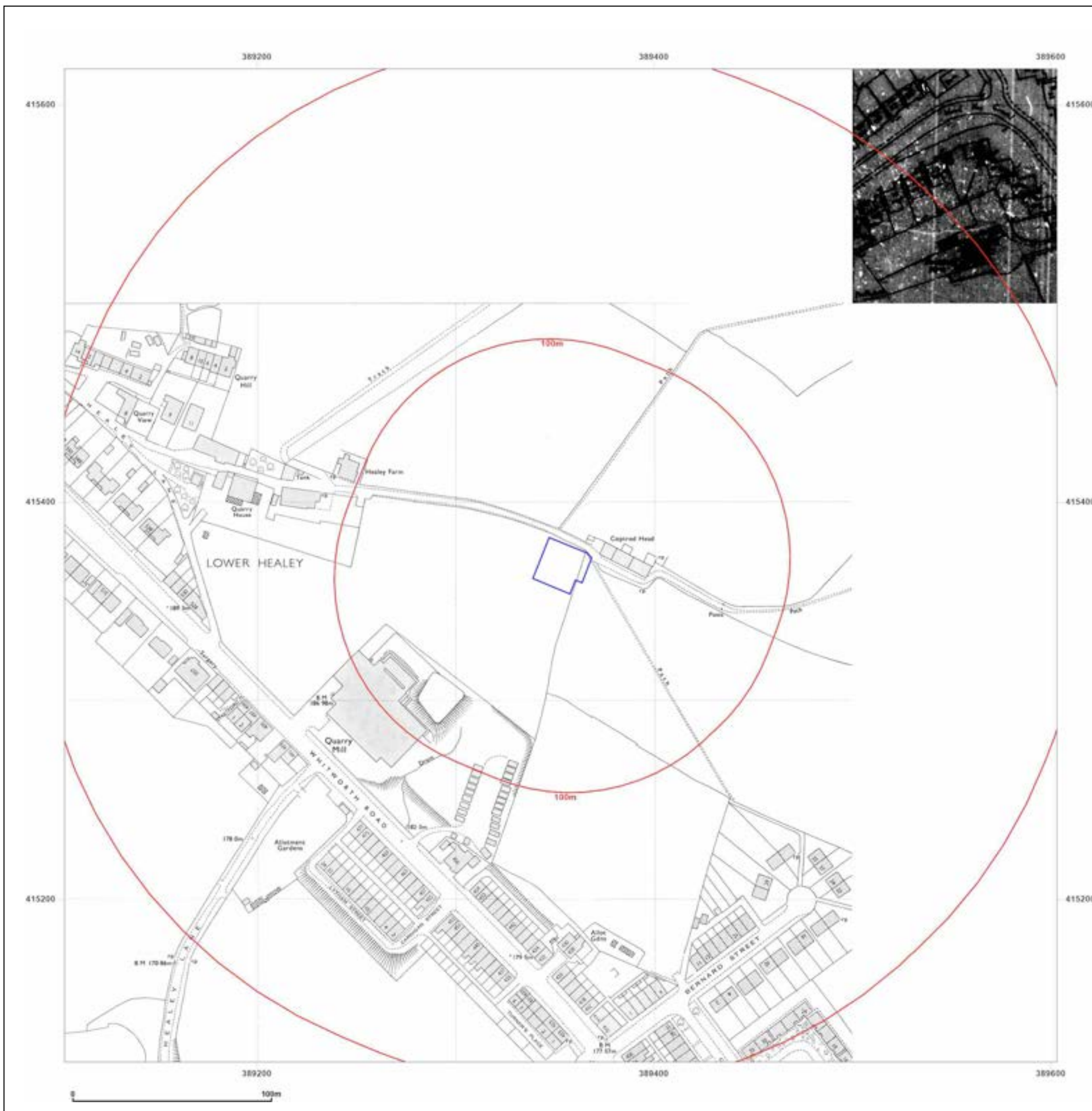


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Site Details:

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OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: National Grid

Map date: 1974-1975

Scale: 1:1,250

Printed at: 1:2,000



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

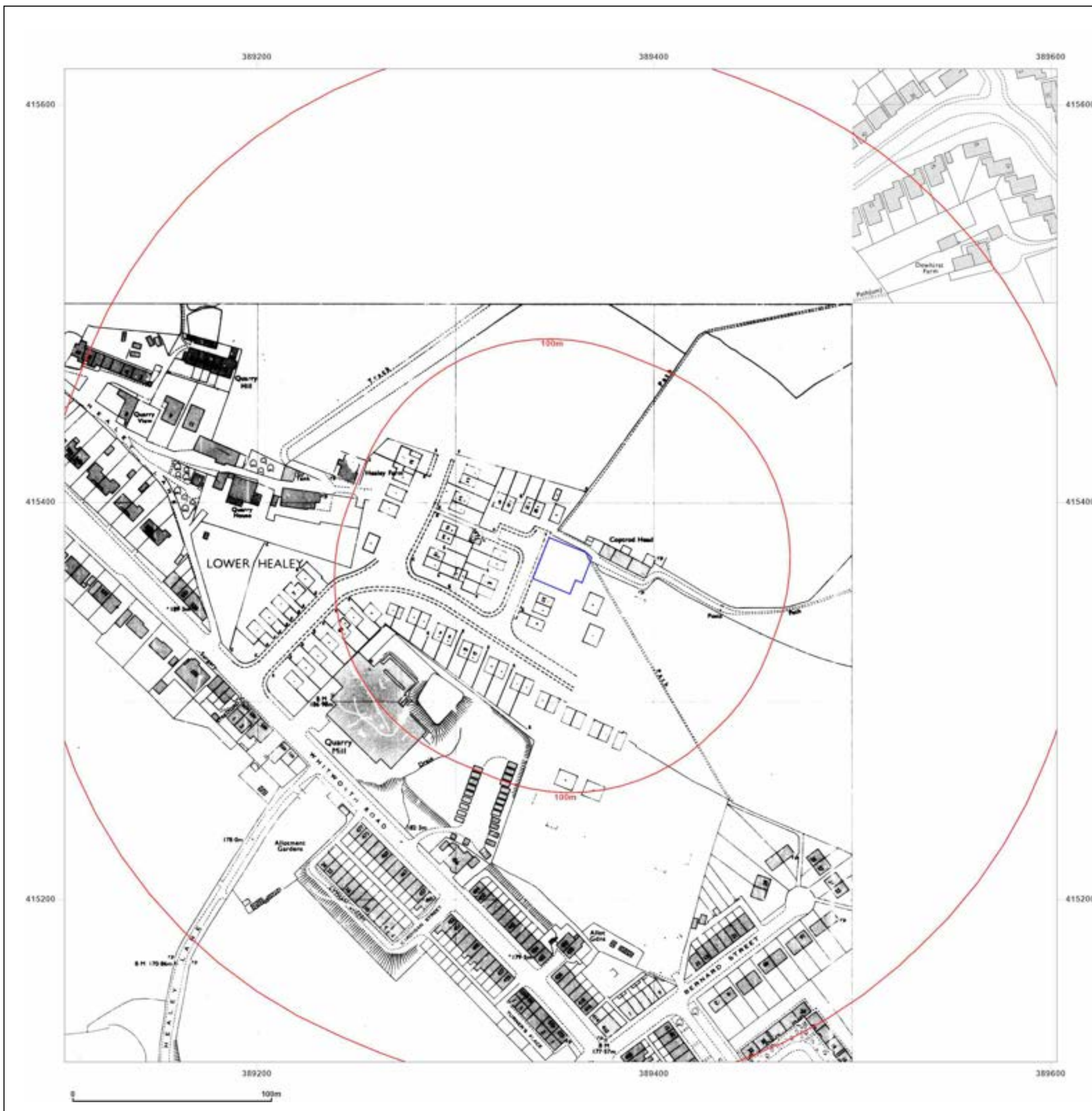


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OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: National Grid

Map date: 1980-1982

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1962 Revised 1982 Edition N/A Copyright 1982 Levelled 1962	Surveyed 1980 Revised 1980 Edition N/A Copyright 1980 Levelled N/A
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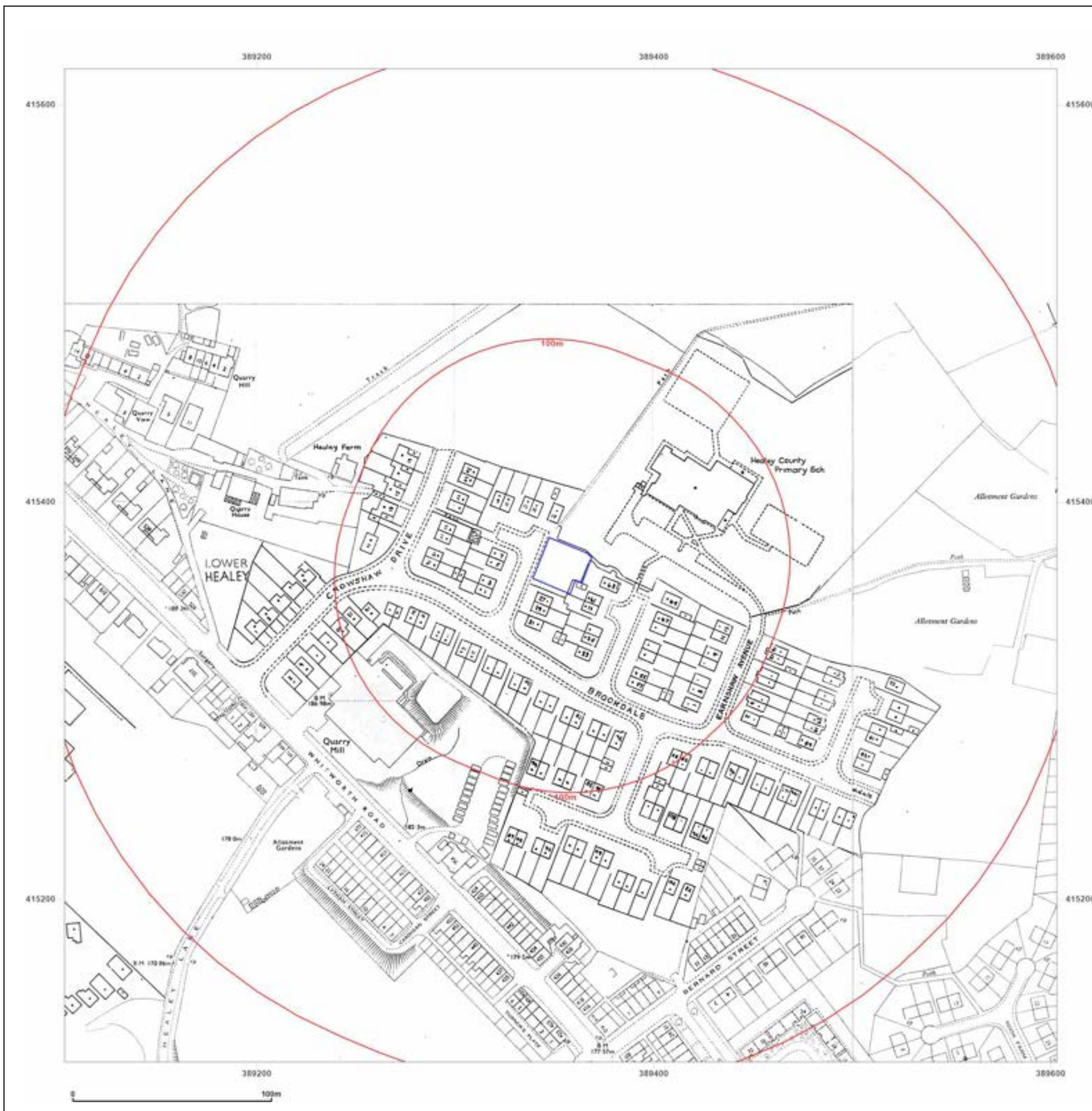


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OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: National Grid

Map date: 1989-1992

Scale: 1:1,250

Printed at: 1:2,000



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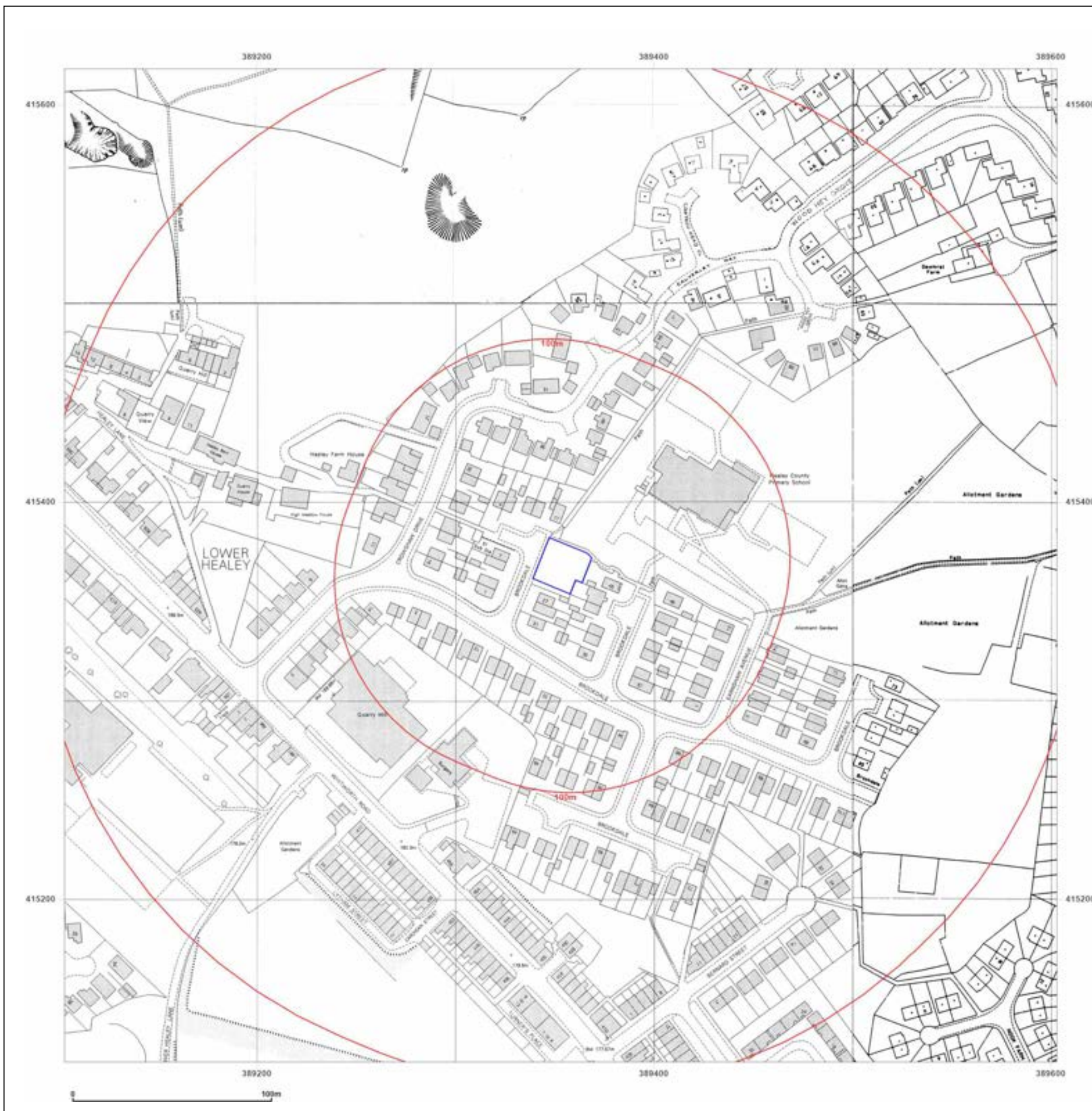


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Site Details:

27, BROOKDALE, ROCHDALE,
OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



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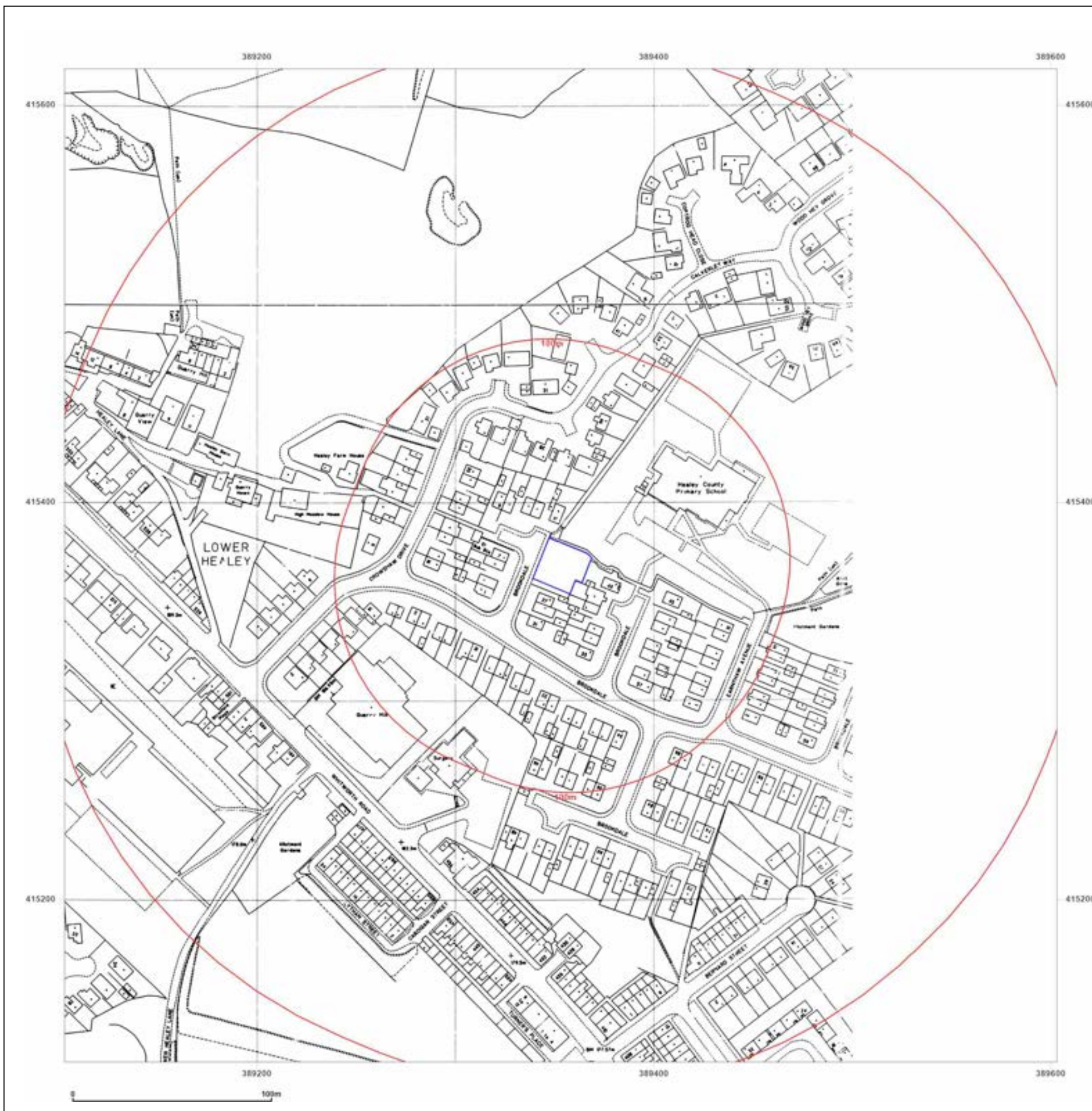


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Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

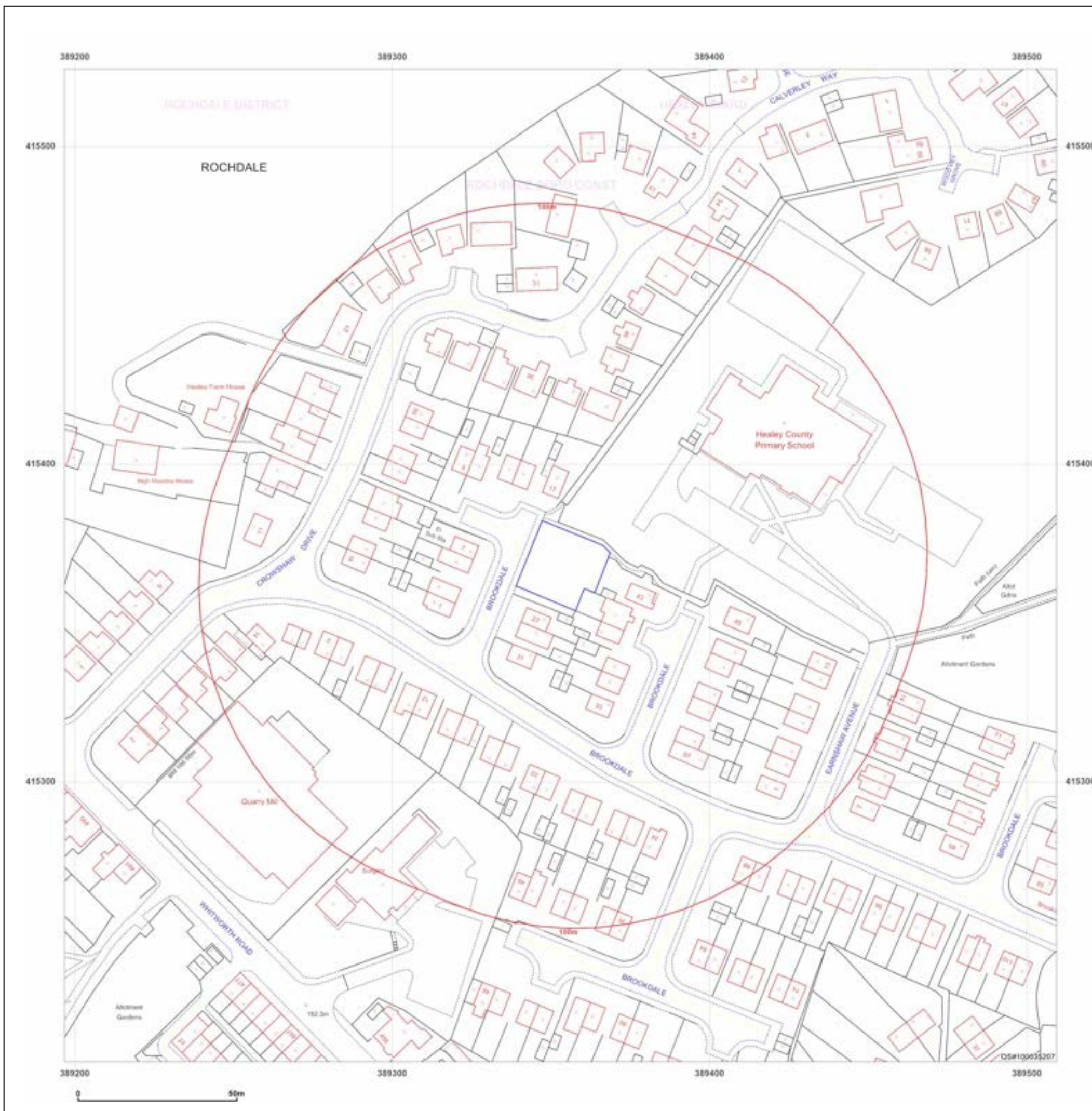


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OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: County Series

Map date: 1851

Scale: 1:10,560

Printed at: 1:10,560



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OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: County Series

Map date: 1890-1891

Scale: 1:10,560

Printed at: 1:10,560



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Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: County Series

Map date: 1908-1909

Scale: 1:10,560

Printed at: 1:10,560



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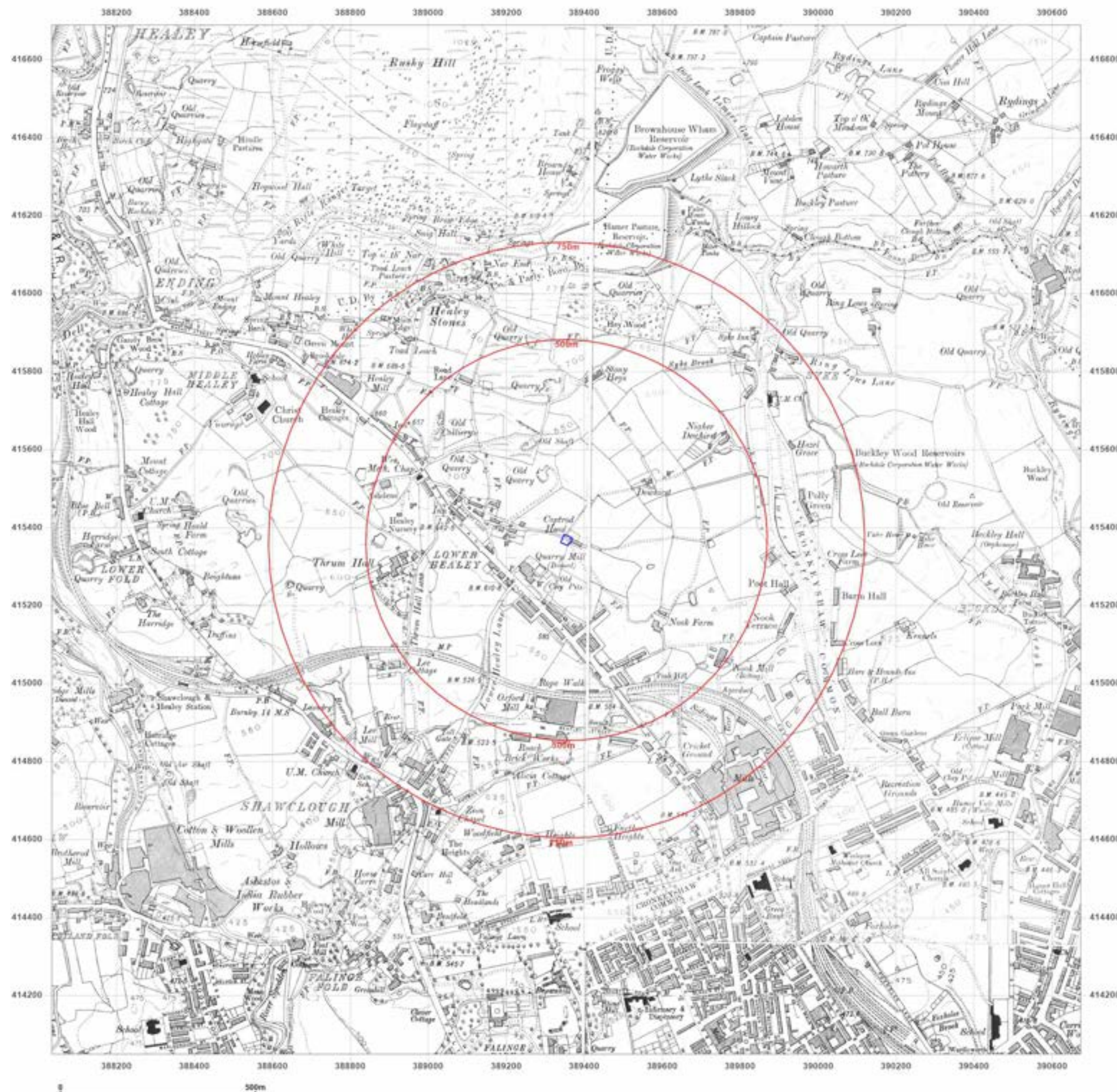


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Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: County Series

Map date: 1928

Scale: 1:10,560

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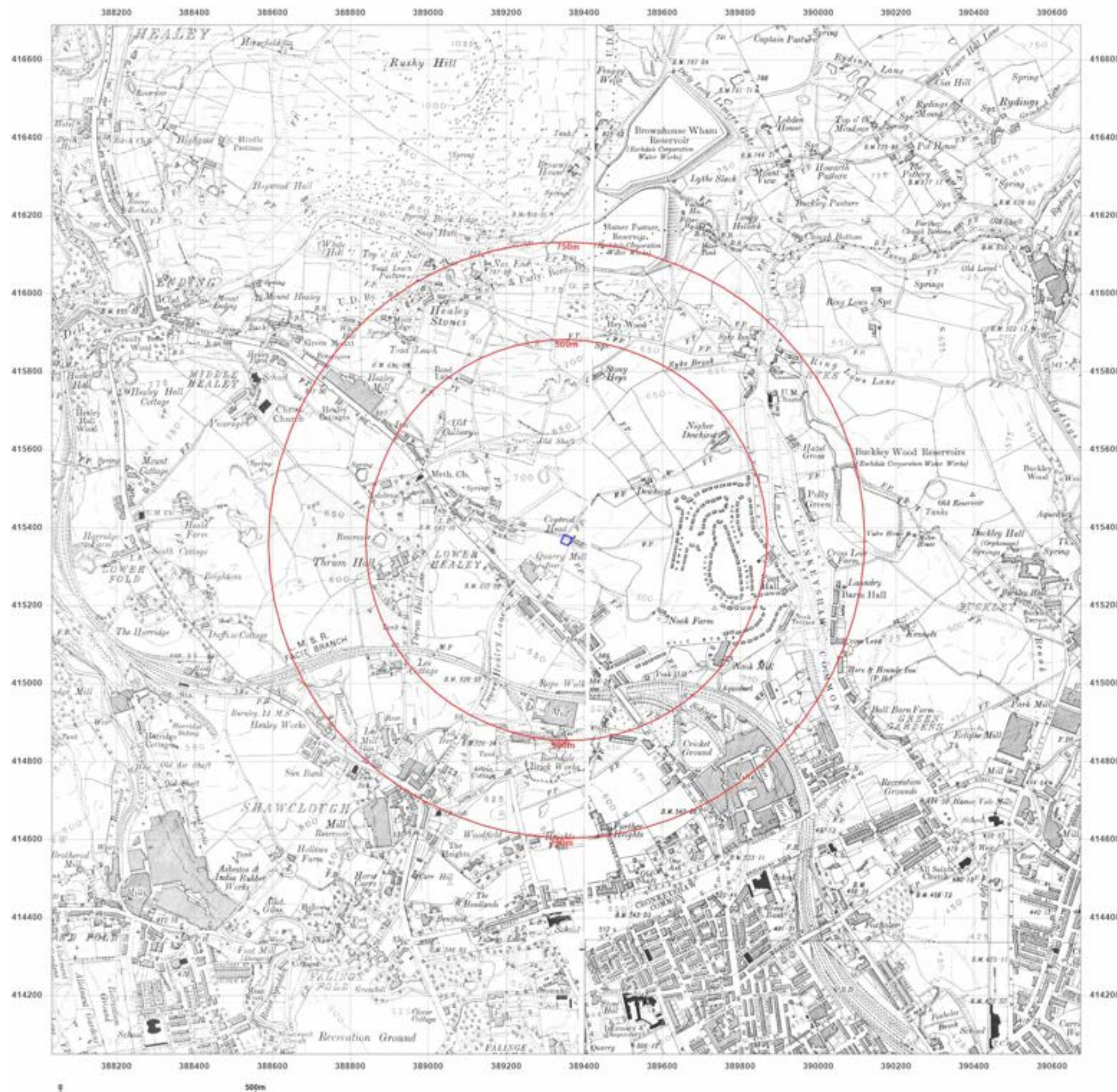


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Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



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Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AIYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: Provisional

Map date: 1956

Scale: 1:10,560

Printed at: 1:10,560



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Report Ref: GS-AIYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: Provisional

Map date: 1967-1968

Scale: 1:10,560

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Site Details:

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OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AIYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: National Grid

Map date: 1975-1979

Scale: 1:10,000

Printed at: 1:10,000



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OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: National Grid

Map date: 1987-1989

Scale: 1:10,000

Printed at: 1:10,000



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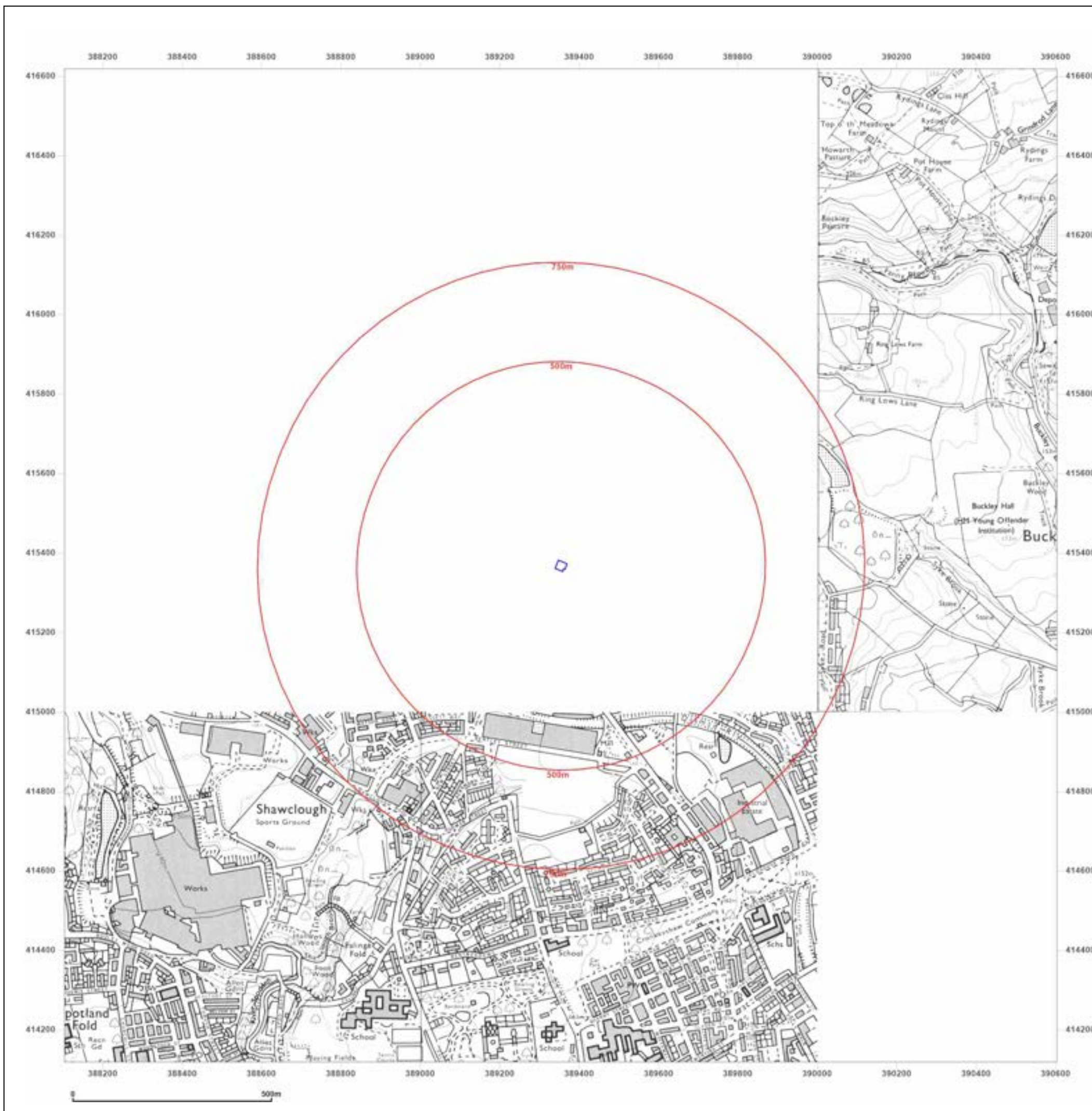


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OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: National Grid

Map date: 1992

Scale: 1:10,000

Printed at: 1:10,000



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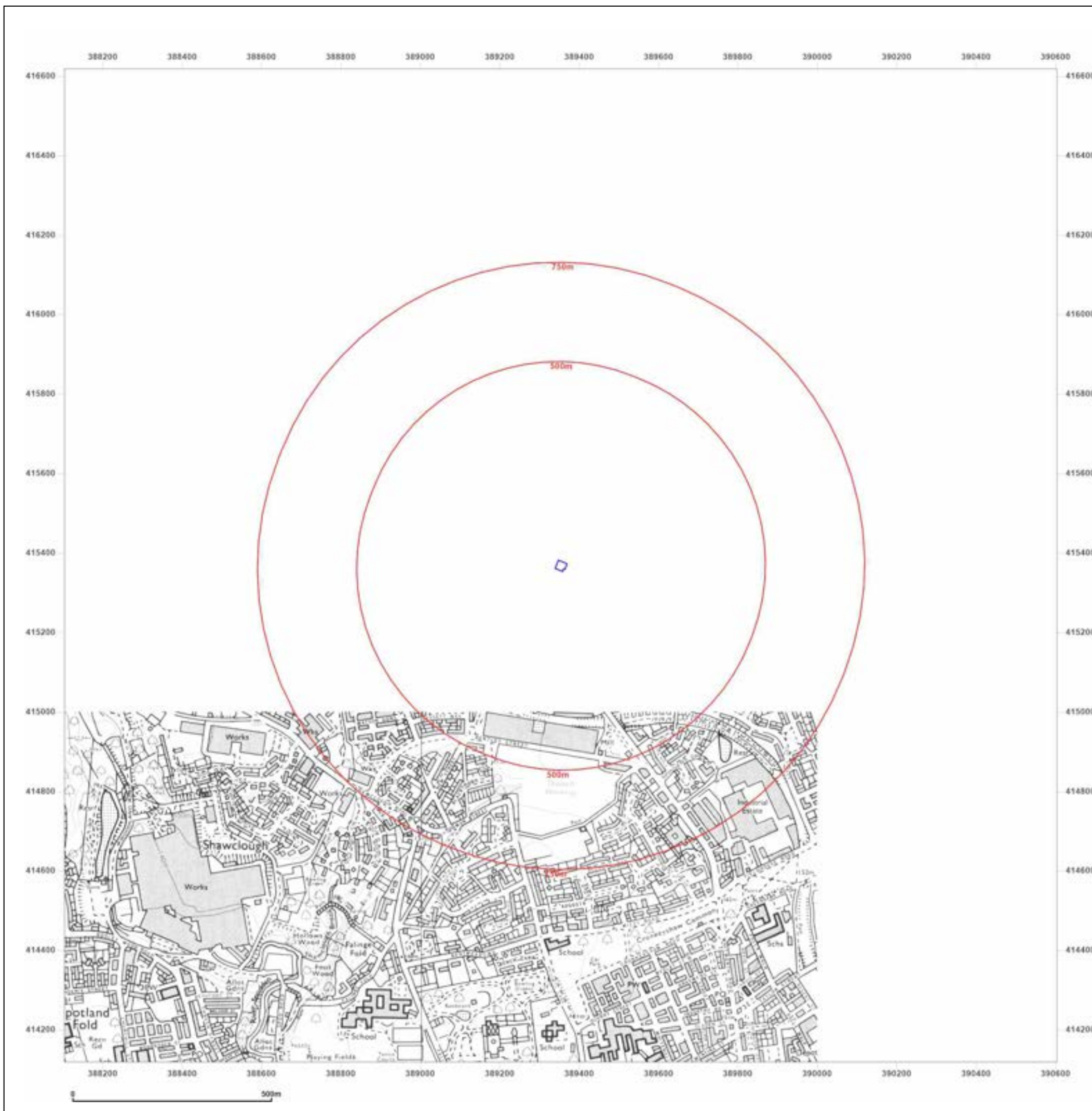


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Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

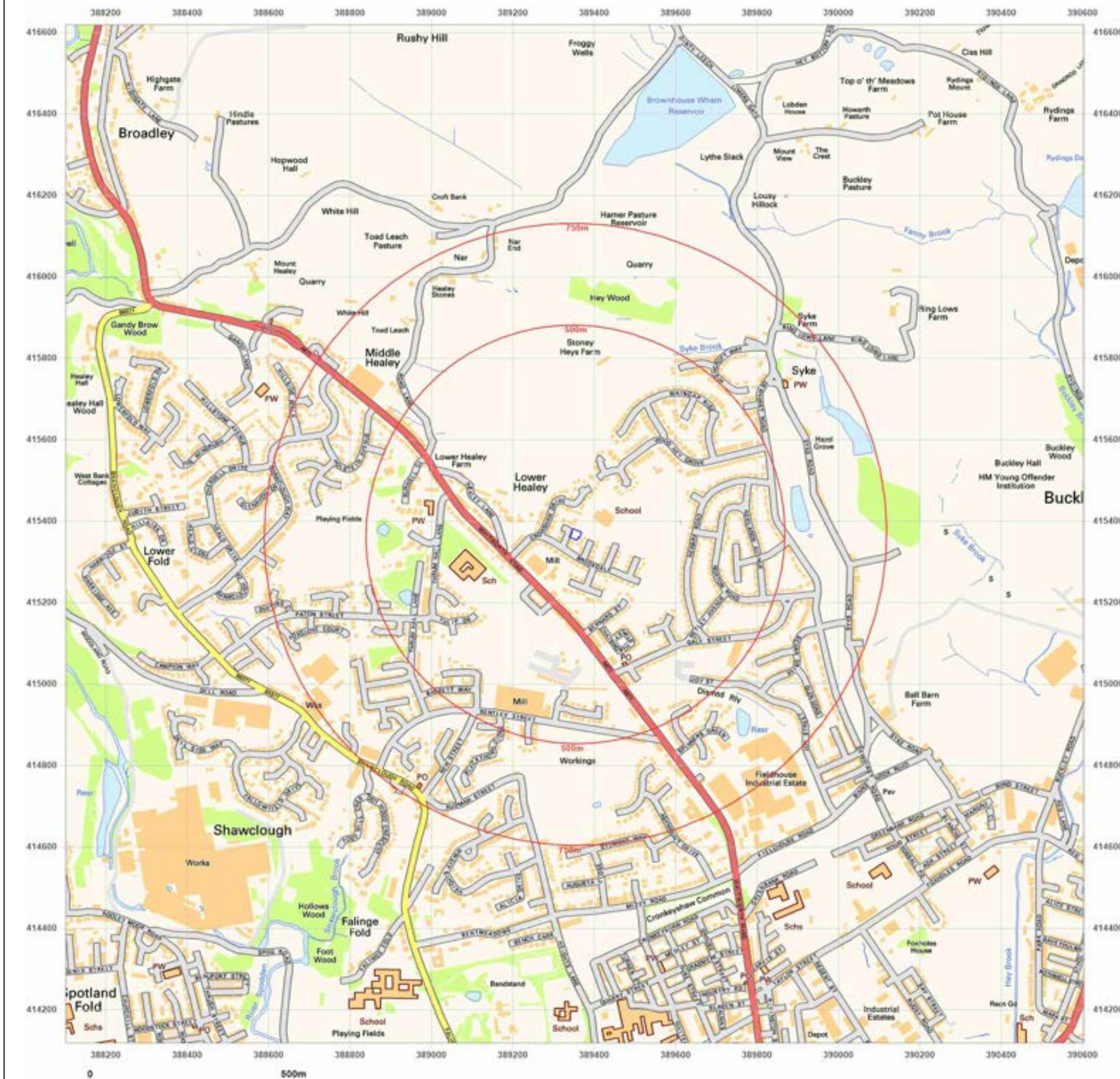


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OL12 0SS

Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AYI-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

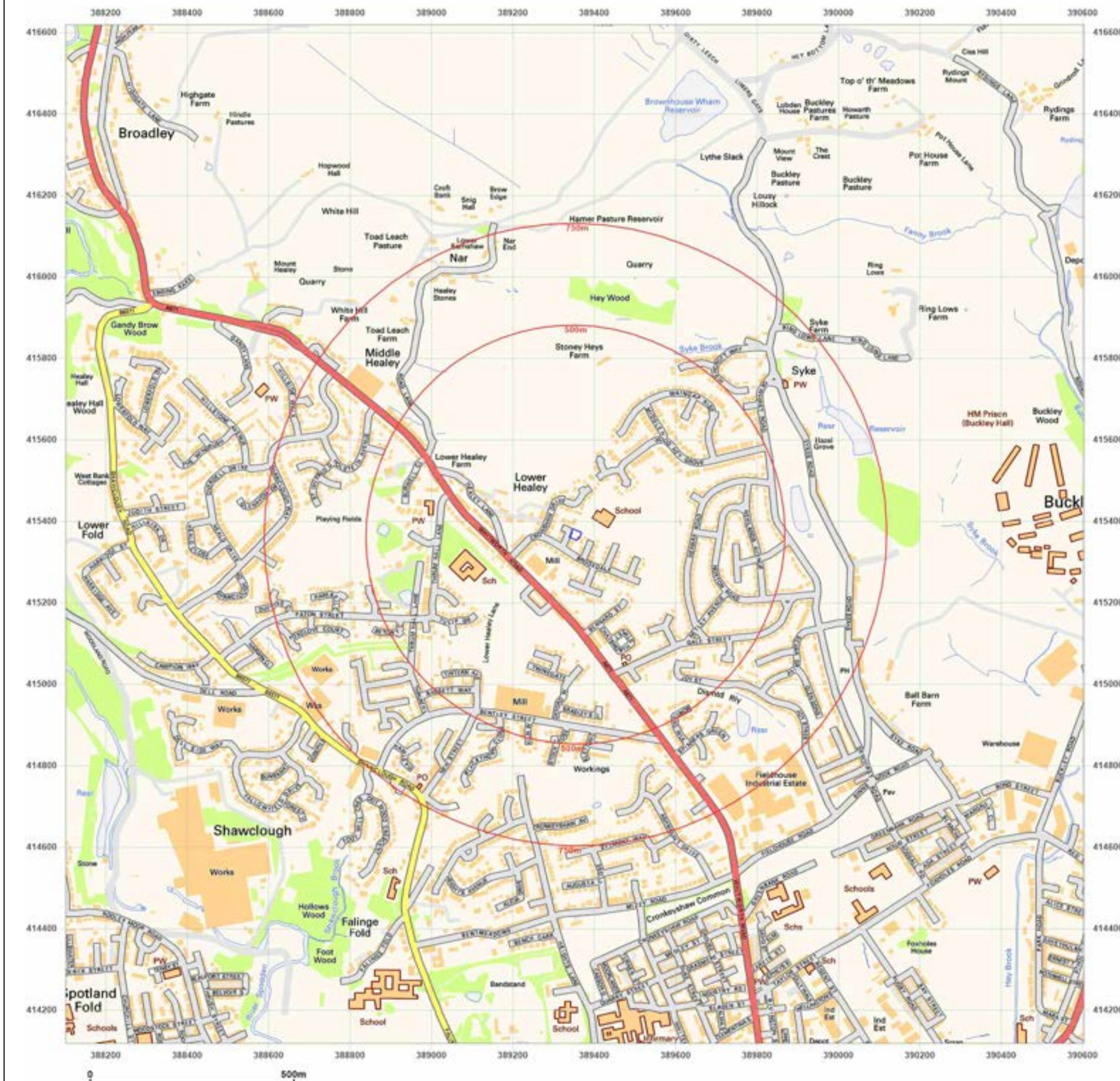


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Client Ref: Land_adjacent_to_27_Brookdale_
Report Ref: GS-AIY-7TQ-VSU-MST
Grid Ref: 389353, 415368

Map Name: National Grid

Map date: 2023

Scale: 1:10,000

Printed at: 1:10,000

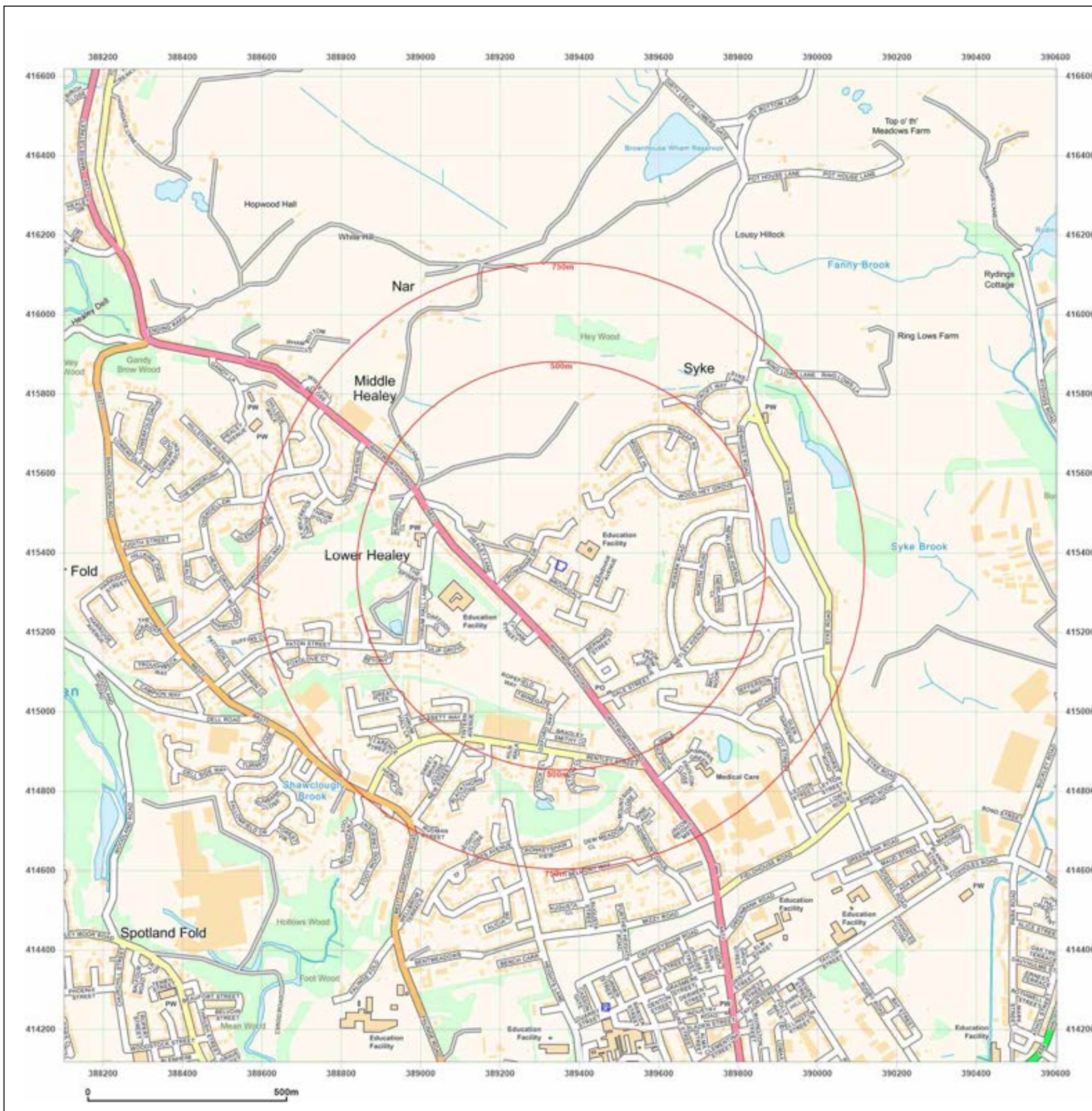


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APPENDIX C – LIMITATIONS

This report was prepared by Adeptus (registered in England: 05908395) for the use of the client, named on page 1. The report has been prepared specifically on the basis of the end use as defined by the client. Any change of end use would necessitate review of this report and its findings. Use of or reliance on this report by any third party is not permitted without our express written agreement, and where this is given, will be subject to our terms and conditions.

We have prepared this report in our professional capacity using reasonable skill, care and diligence. The assessments, conclusions and recommendations within this report pertain to the study site (the extents of which are in Figure 1, below) and the immediate area in continuity with the Site. They are based on the established historical uses, information available at the time of writing and the proposed use of the Site. Where any information supplied by the client or other sources have been utilised, it has been assumed that the information is correct. No responsibility can be accepted by Adeptus for inaccuracies in data supplied by any other party.

Any plans, diagrams, cross sections or images are for illustrative purposes only and should be checked for accuracy on-site. In the event of changes to the proposed end use of the Site, the report may require updating to reflect such changes. Although reference may be made to archaeological, ecological or geotechnical issues, invasive species, flood risk and the presence of asbestos containing materials (ACMs), this report does not constitute an archaeological assessment, ecological assessment, geotechnical assessment, invasive species survey, flood risk assessment or asbestos survey and liability for any claim caused by arising out of or in any way involving asbestos is excluded.

New information relating to environmental matters can come to light after the report has been prepared and changes in conditions and regulatory requirements may occur in future. Either of those factors may change the conclusions presented in our report. If development does not take place within the expected timescales, consideration should be given to reviewing this assessment to confirm that no changes to the site or relevant legislation have taken place. No part of this report is intended to provide legal advice or opinion of any nature.