

LAND CONTAMINATION PHASE 1 DESK STUDY

OLD WEYBEARDS FARM

**HAREFIELD
UXBRIDGE
UB9 6LH**

On behalf of:

PFG Design

Report No.: A230403-R01

Date: May 2023

Adeptus Environmental

2nd Floor, 401 Faraday St.

Birchwood Park

Warrington WA3 6GA

T: +44 (0)1925 599 052

E: contact@adeptus.co.uk

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Project: Old Weybeards Farm

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Client: PFG Design

Report No.: A230403-R01

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Written by: D. Fisher

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Confidentiality

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1.0 INTRODUCTION

1.1 Background & Objectives

Adeptus was appointed to undertake a Land Contamination Phase 1 Desk Study on behalf of PFG Design, in support of a planning application for development at the site known as Old Weybeards Farm (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.

2.0 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 Summary

Location	The site is situated west of Hill End Road in a rural location north of Harefield.
Area & Coordinates	0.27 ha. 504600 191776 (centred on, approx.)
Development Proposals	Conversion of existing barns into 5 (2 x 3-bedroom, 2 x 2-bedroom and 1 x 1-bedroom) residential units, with associated external works.



Figure 2-1: Site Location

2.2 Site Reconnaissance

A site walkover carried out and the findings are noted in Table 2-2, below.

Table 2-2: Site Walkover Observations

Date: 20/04/2023	Notes
Current/Recent Land Use	On-site: Traditional farm buildings, mostly of timber construction and currently used as stabling or general storage. A sand manège at the north also falls partially within the study site.
	North: Open farmland
	East: Open farmland
	South: Detached dwelling, with open farmland beyond
	West: Open farmland
Topography	Generally flat and level.
Ground Cover Proportions On-site	Buildings: 60%
	Hardstanding: 25% - cast in situ concrete aprons around buildings
	Soft Landscaping: 15%
Fuel and/or Chemical Storage	A large bunded diesel tank was present in between buildings at the south of the yard, and we were advised this stores diesel for use in small diggers and farm machinery.
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)	It is possible that the modern tile roof covering on the more northerly barns could be ACM. However, these were seen to be in good condition and are not likely to have affected soil in their vicinity. An ACM will require management in line with the Control of Asbestos Regulations, 2012, and is therefore not expected to impact ground conditions.
Vegetation & Potential Invasive Flora	No signs of vegetation stress were noted. No invasive species were evident during the site walkover.

2 PAST LAND USE

2.1 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	
Farm Buildings (Weybeards)	1865 ¹	Today	The earliest OS map depicts an L-shaped farm buildings at the SE corner of the study site close to the current entrance. Buildings matching the current configuration appear on the 1934 OS map, and the original ones are no longer shown by the 1960 OS map.

Notes: 1 = earliest reviewed OS map | 2 = most recent reviewed OS map | 3 = aerial photograph

Off-site Source – Distance & Direction	Map Years Noted		Description
	First	Last	
Dwelling (Weybeards) – 40m S	1865 ¹	1934	A large dwelling is shown with gardens surrounding and the above farm buildings to its north. There is no sign of the dwelling on the 1960 OS map, and the current dwelling appears in a similar location on the 1989 OS map.
Harefield Lime Works – 110m W	1896	2003 ²	By 1896 the lime works present further west since at least 1865 extends much closer to the study site and further south. By 1934 a networks of further excavations labelled chalk pit and gravel pit extends to within circa 110m of the study site, with several tramways and buildings shown within. The 1960 OS map shows the large area of excavations labelled disused.

Notes: 1 = earliest reviewed OS map | 2 = most recent reviewed OS map | 3 = aerial photograph

2.2 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
<ul style="list-style-type: none"> Active or recently closed landfills: 0 BGS/DOE historical landfills: 1 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 	<p><u>Historical Landfills</u></p> <ul style="list-style-type: none"> Site Address: Waybeards Farm – 185m W <ul style="list-style-type: none"> Site Reference: 8HI019 Waste Type: Industrial First Recorded 31/12/1950 Last Recorded: 31/12/1970 <p>There are no further significant features within the search distance.</p> <p><u>Waste Exemptions</u></p> <p>The exemptions are for small scale waste storage and not considered significant.</p>

2.3 Industrial Features, Authorisations & Incidents

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
<ul style="list-style-type: none"> Current industrial sites: 1 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 	<p><u>Industrial Sites</u></p> <ul style="list-style-type: none"> F.J. Heppelthwaite Solutions - On-site <ul style="list-style-type: none"> Construction and Tool Hire <p>There are no records of further significant features within the search distance.</p>

- Pollution incidents: 0
- Pollution inventory reporting: 0

3 ENVIRONMENTAL SETTING

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

3.1 Geology & Geohazards

3.1.1 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:	Gerrards Cross Gravel	Sand and Gravel	On site
• Bedrock/Solid:	Lambeth Group	Clay, Silt and Sand	On site

3.1.2 Unpublished Geology

There are no BGS historical borehole records within 250m of the site.

3.1.3 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
• Coal Mining Legacy	The site is not located within 75m of a Coal Authority identified mining area.
• Infilled or Made Ground	The large area of chalk and gravel excavation and remaining pits to the west is worked ground according to BGS data. Additionally, records identify a landfill accepting industrial waste between at least 1950 and 1970 in the same area 185m W. Demolition of the earlier buildings on-site is also a potential source of Made Ground.
• Ground Gas Potential	The above pits and in particular landfilling of these is a potential source of ground gases.

3.2 Controlled Waters

3.2.1 Groundwater

Designated groundwater aquifers underlying the site are reviewed in the table below, along with any licenced abstractions within 250m and source protection zones.

Table 4-3: Aquifers, Abstractions & Protection Zones

Records		Details & Significance
• Superficial 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.
• 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 vulnerability:		High
• Groundwater Abstractions Licenses: 0		SPZ: Zone 2, Outer catchment - On site
• Surface Water Abstractions Licenses: 0		
• Potable Water Abstractions Licenses: 0		
• The site is within a SPZ		

3.2.2 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%.

3.3 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
<ul style="list-style-type: none"> Ramsar sites: 0 Special Areas of Conservation (SAC): 0 Special Protection Areas (SPA): 0 Sites of Special Scientific Interest (SSSI): 1 National Nature Reserves (NNR): 0 Local Nature Reserves (LNR): 0 Designated Ancient Woodland: 0 World Heritage Sites: 0 Listed Buildings: 0 	<p><u>Sites of Special Scientific Interest</u></p> <ul style="list-style-type: none"> Old Park Wood <ul style="list-style-type: none"> - 59m S <p>There are no further significant features within the search distance.</p>

3.4 Summary Environmental Sensitivity

Table 4-6: Site Sensitivity Assessment

Aspect	Environmental Sensitivity
<ul style="list-style-type: none"> Hydrogeology 	<u>High</u> . Secondary A superficial and bedrock aquifers; within a SPZ.
<ul style="list-style-type: none"> Hydrology 	<u>Low</u> . No mapped surface waters within 250m.
<ul style="list-style-type: none"> Environmental Designations 	<u>Moderate</u> . SSSI 57m S.
<ul style="list-style-type: none"> Local Land Use 	<u>Low</u> . Dwelling to the south, with surrounding land generally undeveloped.
<ul style="list-style-type: none"> Proposed Use 	<u>High</u> . Residential with gardens.
Overall Environmental Sensitivity:	Moderate to High

4 INITIAL CONCEPTUAL SITE MODEL

For a conceptual risk of harm 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.

4.1 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.

4.1.1 On-Site Potential Sources

- **Farmyard**

The original, traditional farmyard is not considered likely to have given rise to a significant source of contamination, and the low-rise timber buildings are unsuitable for use in connection with any form of modern mechanised farming.

However, it is likely that hardstandings to some of the yard areas will be underlain with hardcore/rubble, which is frequently a source of common contaminants such as PAHs and asbestos.

Additionally, although the likelihood is low, given the presence of a large diesel tank, the possibility of historical accidental release cannot be ruled out.

- **Made Ground**

Demolition of the earlier buildings on-site is also a potential source of Made Ground, although this is less likely to contain asbestos given demolition before 1960.

4.1.2 Off-Site Potential Sources

- **Harefield Lime Works**

The extensive area of partially infilled groundworkings to the west is a potential source ground gases. Additionally, records identify a landfill accepting industrial waste between at least 1950 and 1970 within this area and 185m W of the study site.

4.1.3 Potential Receptors

Potential receptors relevant to the documented history, potential sources, site-setting and proposed use include:

- **Human Health:** residential end users; nearby residents; construction workers
- **Controlled Waters:** underlying aquifers
- **Property** in the form of buildings and structures
- **Flora** within soft landscaping
- **Ecological or Heritage:** designated sites

4.1.4 Potential Pathways

The primary pathways relevant to the identified potential sources and receptors are:

- **Ingestion**
- **Dermal contact**
- **Inhalation**

- **Surface water infiltration:** leaching/migration
- **Migration:** laterally or vertically, via infrastructure or preferential pathways such as permeable strata

4.2 Preliminary Risk Assessment

Qualitative assessment of the risks posed by the potentially significant pollutant linkages identified in Section 5.1 is summarised in the table below. Risk classification is a function of the severity of a potential environmental or health effect, and the likelihood or frequency of its occurrence.

Table 5-3. Preliminary Risk Assessment

Source	Pathway	Receptor	Consequence	Likelihood	Classification*	Rationale
Organic and inorganic contaminants potentially present in soils and/or made ground	Dermal contact, ingestion, particulate inhalation	Nearby occupants & site users	Medium	Low Likelihood	Low Risk	There is the possibility of an elevated short-term risk to off-site receptors from particulates liberated during groundworks. However, given their distance from the study site, the likelihood of exposure is low.
		Residential end users	Medium	Likely	Moderate Risk	Development of the site for residential dwellings introduces the possibility of sensitive receptors such as young children being exposed to contaminants in near surface soils should they be present.
	Consumption of home grown produce		Medium	Low Likelihood	Moderate/Low Risk	Similarly, the growing of produce in contaminated media is possible and may lead to ingestion.
	Uptake from root zone	Flora within soft landscapinga	Minor	Low Likelihood	Low Risk	Flora may be affected by contaminants such as phytotoxic metals.
	Migration of vapours via strata, structures or services; subsequent inhalation	Residential end users	Medium	Unlikely	Low Risk	No suspected sources of volatile contaminants have been directly identified in proximity to the site. Diesel is not highly volatile and not a source of VOCs. It is also likely that any historical near surface sources would have been significantly attenuated by natural processes over time, including volatilisation and microbial degradation. The likelihood of sources capable of acute effects on construction workers (e.g. via excavations) is very low.
	Diffusion through plastic water supply pipes	Water supply pipes	Medium	Unlikely	Low Risk	Water supply pipes are unlikely be sited in media containing contaminants capable of permeating standard polyethylene pipes.

*in the absence of mitigation or remedial measures

Source	Pathway	Receptor	Consequence	Likelihood	Classification*	Rationale
Cont'd	Leaching and/or migration via unsaturated zone	Groundwater	Medium	Low Likelihood	Moderate/ Low Risk	The only credible potential source of significant on-site is considered to be potential accidental releases from the bunded diesel tank or associated machinery.
	Leaching and/or migration via runoff or drainage network	Surface waters	Medium	Unlikely	Low Risk	However, bedrock and superficial strata underlying the site are both designated Secondary A Aquifers with a groundwater vulnerability classification of high, and the site is in an SPZ.
Aggressive ground (e.g. sulphate; pH)	Direct contact/ chemical attack	Buildings/ services	Mild	Likely	Low Risk	If present, Made Ground and/or demolition fill may present a source of aggressive contaminants.
Potential asbestos containing materials in soils	Release of asbestos fibres; subsequent inhalation	Site occupants & users	Medium	Low Likelihood	Moderate/ Low Risk	The likelihood of ACM contamination will largely depend on the nature of any of Made Ground underlying hardstandings. Should material containing asbestos fibres remain in any soft landscaped areas, end users could be exposed. Construction works are subject to separate regulation requiring safe systems of work, with any risk e.g., to site operatives mitigated through the use of PPE.
		Construction workers	Medium	Unlikely	Low Risk	
Elevated levels of ground/mine gases, such as methane and carbon dioxide	Lateral migration preferential pathways such as permeable strata	On-Site buildings and occupants	Severe	Low Likelihood	Moderate Risk	The former extensive lime pit and gravel pit to the east is a potential source of ground gas generation and flux. Although the likelihood of a significant gas source and viable pathway being present is considered to be low, the potential severity of outcome is such that the lowest risk attributable under the prevailing risk assessment framework is low to moderate. It should be noted however that this is due to the potential severity (explosion/asphyxiation), rather than likelihood of such occurring.

*in the absence of mitigation or remedial measures

5 CONCLUSIONS

5.1 Risk Assessment Summary

Adeptus was appointed by PFG Design to undertake a Geo-Environmental Phase 1 Desk Study in support of a planning application for development at the site known as Old Weybeards Farm.

On the basis of the available information, a number of potentially significant contaminants linkages have been identified. However, it is considered that relatively simple mitigation measures should be feasible based on the outcome of subsequent quantitative assessment.

Earlier buildings at Weybeards Farm predating the earliest OS map (1865) were demolished between 1934 and 1960, suggesting Made Ground may underlie that part of the site. Rubble 'hardcore' may also underlie the current hardstandings.

A large diesel tank was also noted on the east of the site, although this was fully bunded and no sign of any spills or leaks noted.

Between at least 1896 and 2003, a very large area of groundworkings was formed to the west of the study site by the extraction of lime and gravel. An area within these workings and circa 180m west of the study sit was also registered as a landfill accepting industrial waste between at least 1950 and 1970.

The above are considered to present potentially unacceptable risk to human health due to potential for exposure to contaminants via proposed soft landscaped areas, and potential migration and accumulation of landfill gases.

An asbestos survey (as defined by the Control of Asbestos Regulations, 2012) is beyond the scope of this report, and any potential asbestos containing materials identified during the walkover have been noted for information only. Contaminated land risk assessment is undertaken on the basis that asbestos present within the fabric of buildings will be managed in accordance with prevailing regulation, and therefore not allowed to contaminate soils.

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

5.2 Recommendations

It is recommended that further assessment of the potentially significant contaminant linkages highlighted in Section 5.2 is undertaken in order to further characterise the potential risks identified.

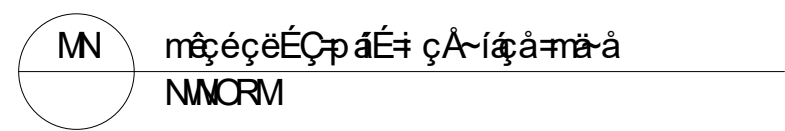
This should be achieved by intrusive investigation to address the potentially significant source areas summarised Section 5.1 and described throughout this report, to enable quantitative screening in respect of the relevant pathways.

A proportionate Phase 2 intrusive site investigation may be undertaken, with the following objectives:

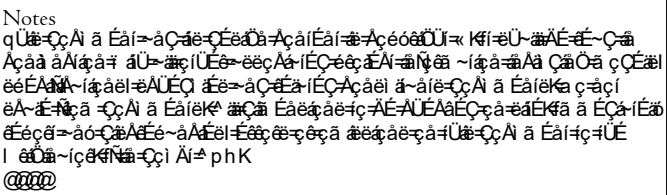
- Characterise any Made Ground, as well as natural strata underlying the site
- Obtain data on soil chemical composition
- Enable environmental monitoring as required
- Update and refine the initial conceptual site model
- Provide data to enable basic waste characterisation in line with waste duty of care requirements if required at the construction stage.

Findings of the Phase 2 investigation and risk assessment will determine whether remediation or mitigation measures are required, in line with LCRM.

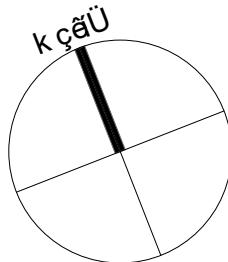
APPENDIX A – SITE PLAN



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North Point



Scale Bar

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Scales @ AI NOMM		Project No. 00
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Status	Purpose of Issue
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PFG DESIGN
ARCHITECTS + DESIGNERS

Nickron House, Bury Lane, Rickmansworth, Herts WD3 1DS
01923 712151 info@pfgdesign.co.uk www.pfgdesign.co.uk

Project Name

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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

WEYBEARDS FARM, HILL END ROAD, HAREFIELD, UB9 6LH

Order Details

Date: 19/04/2023
Your ref: Old_Weybeards_Farm
Our Ref: GS-WWK-HJK-J6P-4EF

Site Details

Location: 504600 191776
Area: 0.27 ha
Authority: [London Borough of Hillingdon](#)



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Summary of findings

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Aerial image

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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	<u>Historical industrial land uses</u>	0	1	33	43	-
17	1.2	<u>Historical tanks</u>	0	0	0	8	-
18	1.3	Historical energy features	0	0	0	0	-
18	1.4	Historical petrol stations	0	0	0	0	-
19	1.5	Historical garages	0	0	0	0	-
19	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
20	2.1	<u>Historical industrial land uses</u>	0	1	43	61	-
24	2.2	<u>Historical tanks</u>	0	0	0	16	-
25	2.3	Historical energy features	0	0	0	0	-
25	2.4	Historical petrol stations	0	0	0	0	-
26	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
27	3.1	Active or recent landfill	0	0	0	0	-
27	3.2	Historical landfill (BGS records)	0	0	0	0	-
28	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
28	3.4	<u>Historical landfill (EA/NRW records)</u>	0	0	1	2	-
29	3.5	Historical waste sites	0	0	0	0	-
29	3.6	<u>Licensed waste sites</u>	0	0	2	1	-
30	3.7	<u>Waste exemptions</u>	0	0	0	5	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
31	4.1	<u>Recent industrial land uses</u>	1	1	2	-	-
32	4.2	Current or recent petrol stations	0	0	0	0	-
32	4.3	Electricity cables	0	0	0	0	-
32	4.4	Gas pipelines	0	0	0	0	-
32	4.5	Sites determined as Contaminated Land	0	0	0	0	-



33	4.6	<u>Control of Major Accident Hazards (COMAH)</u>	0	0	0	1	-
33	4.7	Regulated explosive sites	0	0	0	0	-
33	4.8	Hazardous substance storage/usage	0	0	0	0	-
33	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
34	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
34	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
34	4.12	Radioactive Substance Authorisations	0	0	0	0	-
34	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	1	9	-
36	4.14	<u>Pollutant release to surface waters (Red List)</u>	0	0	0	1	-
36	4.15	Pollutant release to public sewer	0	0	0	0	-
37	4.16	<u>List 1 Dangerous Substances</u>	0	0	0	2	-
37	4.17	<u>List 2 Dangerous Substances</u>	0	0	0	11	-
38	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	0	7	-
39	4.19	<u>Pollution inventory substances</u>	0	0	0	29	-
46	4.20	<u>Pollution inventory waste transfers</u>	0	0	0	1	-
47	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
48	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
50	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
52	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
53	5.4	<u>Groundwater vulnerability- soluble rock risk</u>	Identified (within 0m)				
53	5.5	Groundwater vulnerability- local information	None (within 0m)				
54	5.6	<u>Groundwater abstractions</u>	0	0	0	2	38
63	5.7	Surface water abstractions	0	0	0	0	0
63	5.8	<u>Potable abstractions</u>	0	0	0	0	24
68	5.9	<u>Source Protection Zones</u>	1	0	0	1	-
69	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
70	6.1	Water Network (OS MasterMap)	0	0	0	-	-



70	6.2	Surface water features	0	0	0	-	-
71	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
71	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
72	6.5	<u>WFD Groundwater bodies</u>	2	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
73	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
73	7.2	Historical Flood Events	0	0	0	-	-
73	7.3	Flood Defences	0	0	0	-	-
74	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
74	7.5	Flood Storage Areas	0	0	0	-	-
75	7.6	Flood Zone 2	None (within 50m)				
75	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
76	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding					
77	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
78	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	1	0	3
79	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
79	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
79	10.4	Special Protection Areas (SPA)	0	0	0	0	0
80	10.5	National Nature Reserves (NNR)	0	0	0	0	0
80	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	2
80	10.7	<u>Designated Ancient Woodland</u>	0	0	3	0	6
81	10.8	Biosphere Reserves	0	0	0	0	0
81	10.9	Forest Parks	0	0	0	0	0
81	10.10	Marine Conservation Zones	0	0	0	0	0
81	10.11	<u>Green Belt</u>	1	0	0	2	6
82	10.12	Proposed Ramsar sites	0	0	0	0	0



82	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
82	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
83	10.15	Nitrate Sensitive Areas	0	0	0	0	0
83	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
84	<u>10.17</u>	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
85	<u>10.18</u>	<u>SSSI Units</u>	0	0	1	2	3
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
88	11.1	World Heritage Sites	0	0	0	-	-
88	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
88	11.3	National Parks	0	0	0	-	-
88	11.4	Listed Buildings	0	0	0	-	-
89	11.5	Conservation Areas	0	0	0	-	-
89	11.6	Scheduled Ancient Monuments	0	0	0	-	-
89	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
90	<u>12.1</u>	<u>Agricultural Land Classification</u>	Non Agricultural (within 250m)				
91	12.2	Open Access Land	0	0	0	-	-
91	12.3	Tree Felling Licences	0	0	0	-	-
91	12.4	Environmental Stewardship Schemes	0	0	0	-	-
91	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
92	<u>13.1</u>	<u>Priority Habitat Inventory</u>	0	2	10	-	-
93	13.2	Habitat Networks	0	0	0	-	-
93	<u>13.3</u>	<u>Open Mosaic Habitat</u>	0	0	1	-	-
94	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
95	<u>14.1</u>	<u>10k Availability</u>	Identified (within 500m)				
96	<u>14.2</u>	<u>Artificial and made ground (10k)</u>	0	0	2	3	-
98	<u>14.3</u>	<u>Superficial geology (10k)</u>	1	0	1	3	-



99	14.4	Landslip (10k)	0	0	0	0	-
100	14.5	<u>Bedrock geology (10k)</u>	1	0	1	2	-
101	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
102	15.1	<u>50k Availability</u>	Identified (within 500m)				
103	15.2	<u>Artificial and made ground (50k)</u>	0	0	1	1	-
104	15.3	Artificial ground permeability (50k)	0	0	-	-	-
105	15.4	<u>Superficial geology (50k)</u>	1	0	1	2	-
106	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
106	15.6	Landslip (50k)	0	0	0	0	-
106	15.7	Landslip permeability (50k)	None (within 50m)				
107	15.8	<u>Bedrock geology (50k)</u>	1	0	1	1	-
108	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
108	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
109	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
110	17.1	<u>Shrink swell clays</u>	Moderate (within 50m)				
111	17.2	<u>Running sands</u>	Very low (within 50m)				
112	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
113	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
114	17.5	<u>Landslides</u>	Very low (within 50m)				
115	17.6	<u>Ground dissolution of soluble rocks</u>	Low (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
117	18.1	<u>Natural cavities</u>	0	0	1	1	-
118	18.2	<u>BritPits</u>	0	0	1	5	-
119	18.3	<u>Surface ground workings</u>	0	1	26	-	-
120	18.4	Underground workings	0	0	0	0	0
121	18.5	<u>Historical Mineral Planning Areas</u>	0	0	1	1	-



<u>121</u>	<u>18.6</u>	<u>Non-coal mining</u>	1	0	1	2	2
<u>122</u>	<u>18.7</u>	<u>Mining cavities</u>	0	0	0	0	1
122	18.8	JPB mining areas	None (within 0m)				
123	18.9	Coal mining	None (within 0m)				
123	18.10	Brine areas	None (within 0m)				
123	18.11	Gypsum areas	None (within 0m)				
123	18.12	Tin mining	None (within 0m)				
123	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<u>124</u>	<u>19.1</u>	<u>Radon</u>	Between 1% and 3% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>126</u>	<u>20.1</u>	<u>BGS Estimated Background Soil Chemistry</u>	2	0	-	-	-
<u>126</u>	<u>20.2</u>	<u>BGS Estimated Urban Soil Chemistry</u>	4	2	-	-	-
127	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
128	21.1	Underground railways (London)	0	0	0	-	-
128	21.2	Underground railways (Non-London)	0	0	0	-	-
129	21.3	Railway tunnels	0	0	0	-	-
<u>129</u>	<u>21.4</u>	<u>Historical railway and tunnel features</u>	0	0	10	-	-
129	21.5	Royal Mail tunnels	0	0	0	-	-
130	21.6	Historical railways	0	0	0	-	-
130	21.7	Railways	0	0	0	-	-
130	21.8	Crossrail 1	0	0	0	0	-
130	21.9	Crossrail 2	0	0	0	0	-
130	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 13/06/2021

Site Area: 0.27ha



Recent site history - 2019 aerial photograph



Capture Date: 22/08/2019

Site Area: 0.27ha



Recent site history - 2014 aerial photograph



Capture Date: 03/07/2014

Site Area: 0.27ha



Recent site history - 2010 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2023. All Rights Reserved.

Capture Date: 01/09/2010

Site Area: 0.27ha



Recent site history - 1999 aerial photograph

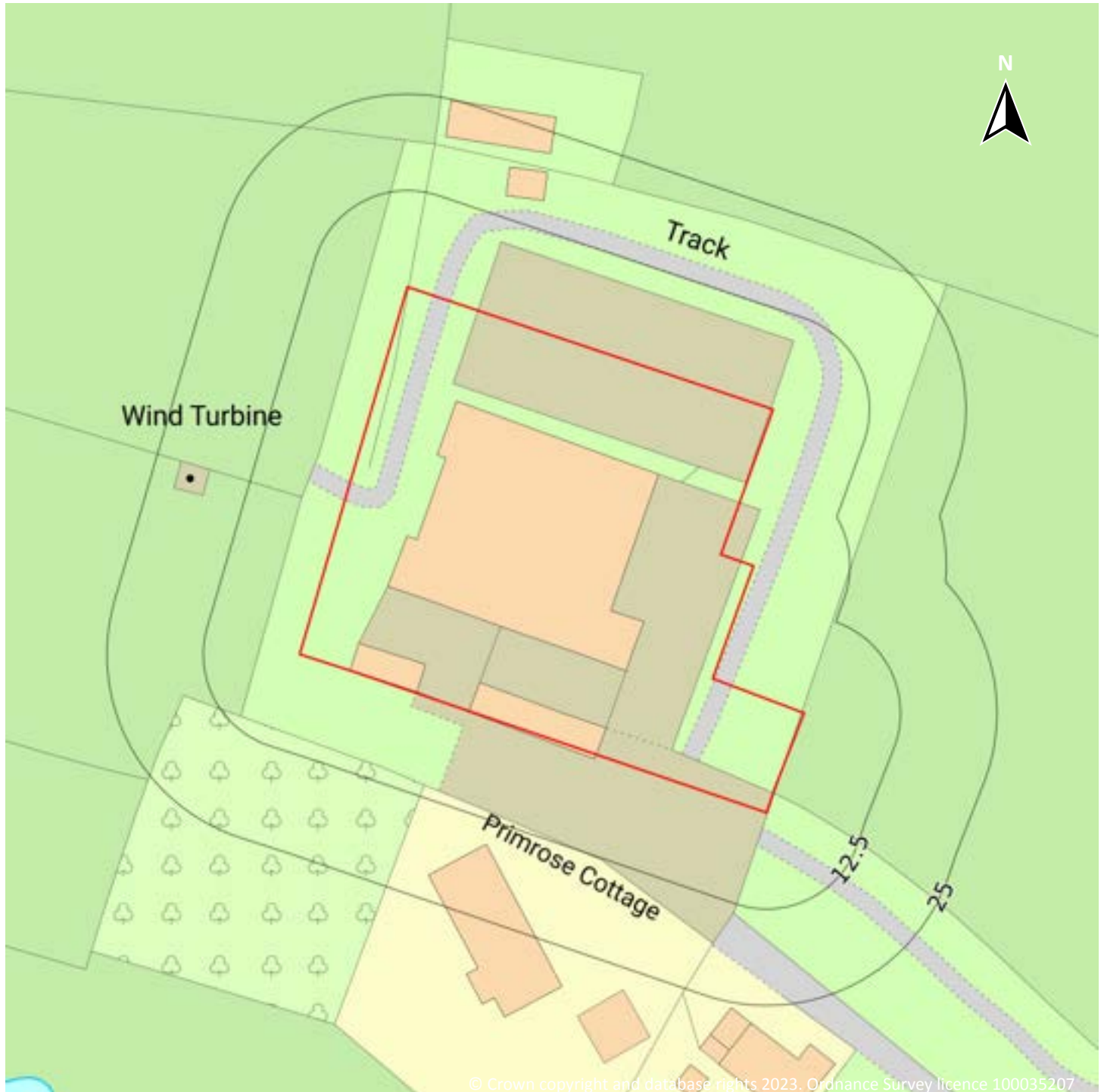


Capture Date: 13/10/1999

Site Area: 0.27ha



OS MasterMap site plan



Site Area: 0.27ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

77

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
1	17m SW	Refuse Heap	1882	2158711



ID	Location	Land use	Dates present	Group ID
A	62m W	Unspecified Works	1913	2294134
A	110m W	Lime Works	1865	2249114
B	110m W	Unspecified Disused Pit	1974	2237450
A	112m W	Unspecified Works	1938	2196149
A	113m W	Unspecified Works	1935 - 1938	2284945
A	113m W	Gravel Pit	1935 - 1938	2193913
A	113m W	Lime Works	1898	2243327
A	115m W	Distemper Works	1938	2142845
A	115m W	Unspecified Quarry	1935	2282374
B	115m W	Gravel Pit	1938	2197088
A	115m W	Gravel Pit	1960	2193994
A	116m W	Gravel Pit	1970	2172455
A	122m W	Gravel Pits	1913	2128934
B	126m W	Railway Sidings	1935 - 1938	2289424
B	128m W	Railway Sidings	1938	2248374
B	133m W	Unspecified Disused Pit	1987	2288690
C	161m NW	Unspecified Heap	1938	2136333
C	161m NW	Unspecified Ground Workings	1970	2133451
C	163m NW	Unspecified Pit	1938 - 1960	2234199
C	163m NW	Unspecified Pit	1935	2221950
C	164m NW	Unspecified Pit	1913	2245286
C	165m NW	Unspecified Pit	1938	2235566
A	177m SW	Chalk Pit	1974	2172635
A	179m W	Chalk Pit	1987	2234977
2	183m W	Unspecified Disused Pit	1974	2285555
A	187m W	Lime Works	1899	2214149
A	187m W	Unspecified Quarry	1899	2258553
A	189m W	Lime Works	1895	2185245

ID	Location	Land use	Dates present	Group ID
A	221m W	Tramway Sidings	1935 - 1938	2281331
A	223m W	Tramway Sidings	1938	2198866
D	246m SW	Unspecified Heap	1960	2136332
D	247m SW	Unspecified Ground Workings	1938	2133448
D	248m SW	Unspecified Pit	1938	2198483
D	250m SW	Gravel Pits	1913	2128935
D	250m SW	Unspecified Pit	1935	2258962
E	253m W	Rifle Range	1987	2164784
A	262m W	Lime Works	1878	2185701
A	264m W	Unspecified Ground Workings	1882	2133449
A	264m W	Lime Works	1882	2207620
E	284m W	Tramway Sidings	1913	2151136
F	301m NW	Old Gravel Pit	1960 - 1970	2194305
F	306m NW	Gravel Pit	1938	2224871
F	306m NW	Gravel Pit	1935 - 1938	2285750
A	307m SW	Unspecified Heap	1974	2260105
A	307m SW	Unspecified Heap	1987	2290996
A	312m SW	Unspecified Heap	1935 - 1938	2224180
A	313m SW	Unspecified Heap	1938	2223591
F	318m NW	Gravel Pit	1935 - 1938	2208036
F	320m NW	Old Gravel Pits	1960	2141173
A	322m W	Unspecified Pit	1913	2210343
F	322m NW	Sand Pit	1938	2131670
G	334m SE	Hospital	1960 - 1974	2269750
G	336m SE	Hospital	1987 - 1989	2217273
H	336m W	Unspecified Pit	1913	2124970
I	362m W	Unspecified Works	1974	2260288
J	368m N	Old Gravel Pits	1960 - 1970	2231736



ID	Location	Land use	Dates present	Group ID
J	373m N	Unspecified Ground Workings	1974	2221173
J	373m N	Unspecified Ground Workings	1987	2274692
A	375m W	Unspecified Pit	1970	2218414
A	377m W	Unspecified Heap	1960	2281158
A	378m W	Unspecified Heap	1935 - 1938	2187939
H	387m W	Pump House	1935 - 1938	2289025
J	406m N	Gravel Pits	1935 - 1938	2231042
J	412m N	Gravel Pits	1938	2249538
J	426m N	Gravel Pits	1938	2230419
J	440m N	Sand Pit	1938	2277063
J	441m N	Sand Pit	1938	2233130
J	442m N	Sand Pit	1935	2189213
L	445m W	Sewage Works	1974	2270685
L	446m W	Sewage Works	1987	2251985
L	460m NW	Works	1970	2157121
J	462m N	Gravel Pit	1938	2191737
J	463m N	Gravel Pit	1935	2173971
J	469m N	Unspecified Pit	1938	2124985
L	476m NW	Unspecified Works	1960	2159698
M	482m NW	Unspecified Tanks	1987	2143895

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

8

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
I	380m W	Tanks	1896	376252
I	381m SW	Tanks	1898	376254
K	422m SE	Unspecified Tank	1992 - 1998	391826
K	434m SE	Unspecified Tank	1990	401875
K	436m SE	Unspecified Tank	1959	387535
3	461m SW	Unspecified Tank	1914	364017
K	468m SE	Tanks	1992	376253
M	483m NW	Tanks	1989 - 1997	404296

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

0

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

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



2 Past land use - un-grouped



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

2.1 Historical industrial land uses

Records within 500m

105

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

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

ID	Location	Land Use	Date	Group ID
1	17m SW	Refuse Heap	1882	2158711
A	62m W	Unspecified Works	1913	2294134
A	110m W	Lime Works	1865	2249114

ID	Location	Land Use	Date	Group ID
B	110m W	Unspecified Disused Pit	1974	2237450
A	112m W	Unspecified Works	1938	2196149
A	113m W	Unspecified Works	1935	2284945
A	113m W	Unspecified Works	1938	2284945
A	113m W	Gravel Pit	1938	2193913
A	113m W	Lime Works	1898	2243327
A	115m W	Distemper Works	1938	2142845
A	115m W	Unspecified Quarry	1935	2282374
B	115m W	Gravel Pit	1938	2197088
B	115m W	Gravel Pit	1935	2193913
A	115m W	Gravel Pit	1960	2193994
A	116m W	Gravel Pit	1970	2172455
B	118m W	Gravel Pit	1938	2197088
A	122m W	Gravel Pits	1913	2128934
B	126m W	Railway Sidings	1935	2289424
B	128m W	Railway Sidings	1938	2248374
B	130m W	Railway Sidings	1938	2248374
B	133m W	Railway Sidings	1938	2289424
B	133m W	Unspecified Disused Pit	1987	2288690
C	161m NW	Unspecified Heap	1938	2136333
C	161m NW	Unspecified Ground Workings	1970	2133451
C	163m NW	Unspecified Pit	1938	2234199
C	163m NW	Unspecified Pit	1960	2234199
C	163m NW	Unspecified Pit	1935	2221950
C	164m NW	Unspecified Pit	1913	2245286
C	165m NW	Unspecified Pit	1938	2235566
C	165m NW	Unspecified Pit	1938	2235566
A	177m SW	Chalk Pit	1974	2172635



ID	Location	Land Use	Date	Group ID
A	179m W	Chalk Pit	1987	2234977
2	183m W	Unspecified Disused Pit	1974	2285555
A	187m W	Lime Works	1899	2214149
A	187m W	Unspecified Quarry	1899	2258553
A	189m W	Lime Works	1895	2185245
A	221m W	Tramway Sidings	1935	2281331
A	223m W	Tramway Sidings	1938	2198866
A	224m W	Tramway Sidings	1938	2281331
A	224m W	Tramway Sidings	1938	2198866
D	246m SW	Unspecified Heap	1960	2136332
D	247m SW	Unspecified Ground Workings	1938	2133448
D	248m SW	Unspecified Pit	1938	2198483
D	248m SW	Unspecified Pit	1938	2198483
D	250m SW	Unspecified Pit	1935	2258962
D	250m SW	Gravel Pits	1913	2128935
E	253m W	Rifle Range	1987	2164784
A	262m W	Lime Works	1878	2185701
A	264m W	Unspecified Ground Workings	1882	2133449
A	264m W	Lime Works	1882	2207620
E	284m W	Tramway Sidings	1913	2151136
F	301m NW	Old Gravel Pit	1960	2194305
F	304m NW	Old Gravel Pit	1970	2194305
F	306m NW	Gravel Pit	1938	2224871
F	306m NW	Gravel Pit	1935	2285750
F	306m NW	Gravel Pit	1938	2285750
A	307m SW	Unspecified Heap	1974	2260105
A	307m SW	Unspecified Heap	1987	2290996
A	312m SW	Unspecified Heap	1935	2224180

ID	Location	Land Use	Date	Group ID
A	313m SW	Unspecified Heap	1938	2223591
A	313m SW	Unspecified Heap	1938	2223591
A	314m SW	Unspecified Heap	1938	2224180
A	314m SW	Unspecified Heap	1938	2224180
F	318m NW	Gravel Pit	1938	2208036
F	320m NW	Old Gravel Pits	1960	2141173
F	321m NW	Gravel Pit	1935	2208036
A	322m W	Unspecified Pit	1913	2210343
F	322m NW	Sand Pit	1938	2131670
3	334m SE	Hospital	1974	2269750
4	336m SE	Hospital	1987	2217273
G	336m W	Unspecified Pit	1913	2124970
H	362m W	Unspecified Works	1974	2260288
I	368m N	Old Gravel Pits	1970	2231736
I	370m N	Old Gravel Pits	1960	2231736
I	373m N	Unspecified Ground Workings	1974	2221173
I	373m N	Unspecified Ground Workings	1987	2274692
A	375m W	Unspecified Pit	1970	2218414
A	377m W	Unspecified Heap	1960	2281158
A	378m W	Unspecified Heap	1935	2187939
A	380m W	Unspecified Heap	1938	2187939
A	380m W	Unspecified Heap	1938	2187939
G	387m W	Pump House	1935	2289025
G	388m W	Pump House	1938	2289025
G	388m W	Pump House	1938	2289025
G	390m W	Pump House	1938	2289025
I	406m N	Gravel Pits	1938	2231042
I	407m N	Gravel Pits	1938	2231042



ID	Location	Land Use	Date	Group ID
I	409m N	Gravel Pits	1935	2231042
I	412m N	Gravel Pits	1938	2249538
I	426m N	Gravel Pits	1938	2230419
I	440m N	Sand Pit	1938	2277063
I	441m N	Sand Pit	1938	2233130
I	442m N	Sand Pit	1935	2189213
K	445m W	Sewage Works	1974	2270685
K	446m W	Sewage Works	1987	2251985
I	446m N	Sand Pit	1938	2277063
L	447m SE	Hospital	1989	2217273
L	447m SE	Hospital	1974	2269750
L	447m SE	Hospital	1965	2269750
K	460m NW	Works	1970	2157121
I	462m N	Gravel Pit	1938	2191737
I	463m N	Gravel Pit	1935	2173971
I	469m N	Unspecified Pit	1938	2124985
K	476m NW	Unspecified Works	1960	2159698
M	482m NW	Unspecified Tanks	1987	2143895

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

16

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

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

ID	Location	Land Use	Date	Group ID
H	380m W	Tanks	1896	376252
H	381m SW	Tanks	1898	376254



ID	Location	Land Use	Date	Group ID
J	422m SE	Unspecified Tank	1996	391826
J	422m SE	Unspecified Tank	1992	391826
J	422m SE	Unspecified Tank	1998	391826
J	422m SE	Unspecified Tank	1997	391826
J	434m SE	Unspecified Tank	1990	401875
J	436m SE	Unspecified Tank	1959	387535
J	436m SE	Unspecified Tank	1959	387535
5	461m SW	Unspecified Tank	1914	364017
J	468m SE	Tanks	1992	376253
M	483m NW	Tanks	1992	404296
M	483m NW	Tanks	1992	404296
M	483m NW	Tanks	1997	404296
M	483m NW	Tanks	1996	404296
M	485m NW	Tanks	1989	404296

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.



2.5 Historical garages

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

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 27**

ID	Location	Details		
1	185m W	Site Address: Waybeards Farm, Hill End, Harefield, Hillingdon, London Licence Holder Address: -	Waste Licence: - Site Reference: 8HI019 Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded 31/12/1950 Last Recorded: 31/12/1970
2	356m N	Site Address: West of Springwell Lane, Springwell Lane Licence Holder Address: -	Waste Licence: - Site Reference: 8HI044, HIL054 Waste Type: Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: Mr Hall First Recorded - Last Recorded: -
3	383m SW	Site Address: Parkwood Farm, Hill End, Harefield, Hillingdon, London Licence Holder Address: -	Waste Licence: - Site Reference: 8HI061 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - 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

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

3

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

Features are displayed on the Waste and landfill map on **page 27**

ID	Location	Details		
A	131m S	Site Name: Hep Oils Site Address: Waybeards Farm, Hill End Road, Harefield, Uxbridge, Middlesex, UB9 6LH Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HEP006 EPR reference: EA/EPR/XP3698EY/V002 Operator: Mr Fred Hepplethwaite & Mr Tim Hepplethwaite Waste Management licence No: 100312 Annual Tonnage: 24999	Issue Date: 17/11/2008 Effective Date: - Modified: 08/01/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
A	141m S	Site Name: Hep Oils Site Address: Waybeards Farm, Hill End Road, Harefield, Uxbridge, Middlesex, UB9 6LH Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HOL138 EPR reference: EA/EPR/BB3506MC/T001 Operator: Hep Oils Limited Waste Management licence No: 100312 Annual Tonnage: 24999	Issue Date: 17/11/2008 Effective Date: 20/08/2014 Modified: 08/01/2010 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred

ID	Location	Details		
4	497m NW	Site Name: Maple Lodge Waste Water Treatment Works Site Address: Maple Lodge Waste Water Treatment Works, Denham Way, Rickmansworth, Hertfordshire, WD3 2SQ Correspondence Address: -	Type of Site: Biological Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: THA016 EPR reference: EA/EPR/NP3497NN/V002 Operator: Viridor Waste (Thames) Limited Waste Management licence No: 80599 Annual Tonnage: 149800	Issue Date: 29/09/2003 Effective Date: - Modified: 29/06/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC

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

3.7 Waste exemptions

Records within 500m	5
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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 27**

ID	Location	Site	Reference	Category	Sub-Category	Description
B	356m SE	HILL END ROAD, HAREFIELD, UXBRIDGE, UB9 6UX	WEX301703	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal
B	356m SE	HILL END ROAD, HAREFIELD, UXBRIDGE, UB9 6UX	WEX302012	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal
B	356m SE	HILL END ROAD, HAREFIELD, UXBRIDGE, UB9 6UX	WEX298383	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal
B	356m SE	HILL END ROAD, HAREFIELD, UXBRIDGE, UB9 6UX	WEX160427	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal
B	356m SE	HILL END ROAD, HAREFIELD, UXBRIDGE, UB9 6UX	WEX165618	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal

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
- Control of Major Accident Hazards
- Licensed Discharges to controlled waters
- Pollutant release to surface waters
- List 1 Dangerous Substances
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)
- Pollution inventory substances
- Pollution inventory waste transfers

4.1 Recent industrial land uses

Records within 250m

4

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Company	Address	Activity	Category
A	On site	F J Heppelthwaite Solutions	Weybeards Farm, Hill End Road, Harefield, Greater London, UB9 6LH	Construction and Tool Hire	Hire Services
A	30m W	Wind Turbine	Greater London, UB9	Energy Production	Industrial Features



ID	Location	Company	Address	Activity	Category
B	238m W	Middlesex Flooring Ltd	Unit 7 Summerhouse Business Park, Canal Way, Harefield, Uxbridge, Greater London, UB9 6TH	Construction Completion Services	Construction Services
B	242m W	L B Interiors Ltd	Unit 4 Summerhouse Business Park, Canal Way, Harefield, Uxbridge, Greater London, UB9 6TH	Office and Shop Equipment	Industrial Products

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0
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Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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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

1

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.

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Company	Address	Operational status	Tier
5	448m W	Thames Water Utilities Limited	Thames Water Utilities Limited, Maple Lodge Sewage Treatment Works, Denham Way, Rickmansworth, Hertfordshire, WD3 9SQ	Current COMAH Site	COMAH Lower Tier Operator

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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



4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

0

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

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

10

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

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Address	Details	
1	178m W	PARK WORKS, PARK LANE, HAREFIELD, M, PARK WORKS, PARK LANE, HAREFIELD, MIDDX	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCU.0277 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: 24/08/1966 Effective Date: 24/08/1966 Revocation Date: 22/02/1991
3	401m SW	TETP, PORCELAIN WORKS, HAREFIELD, M, TETP, PORCELAIN WORKS, HAREFIELD, MIDDX	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: CTCR.0616 Permit Version: 1 Receiving Water: TRIB OF NEWYEARS GREENBOURNE	Status: REVOKED - UNSPECIFIED Issue date: 17/05/1963 Effective Date: 13/10/1969 Revocation Date: 06/03/1991



ID	Location	Address	Details	
C	403m W	MAPLE LODGE STW, BUCKS, MAPLE LODGE STW, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CNTD.0071 Permit Version: 8 Receiving Water: THE GUC (HAREFIELD REACH)	Status: VARIED UNDER EPR 2010 Issue date: 29/10/2018 Effective Date: 29/10/2018 Revocation Date: -
C	403m W	MAPLE LODGE STW, BUCKS, MAPLE LODGE STW, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CNTD.0071 Permit Version: 6 Receiving Water: THE GUC (HAREFIELD REACH)	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 28/01/2009 Effective Date: 01/04/2009 Revocation Date: 31/03/2010
C	403m W	MAPLE LODGE STW, BUCKS, MAPLE LODGE STW, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CNTD.0071 Permit Version: 7 Receiving Water: THE GUC (HAREFIELD REACH)	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 01/04/2010 Effective Date: 01/04/2010 Revocation Date: 28/10/2018
C	403m W	MAPLE LODGE STW, BUCKS, MAPLE LODGE STW, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CNTD.0071 Permit Version: 5 Receiving Water: THE GUC (HAREFIELD REACH)	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 30/03/2006 Effective Date: 30/03/2006 Revocation Date: 28/06/2007
C	403m W	MAPLE LODGE STW, BUCKS, MAPLE LODGE STW, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CNTD.0071 Permit Version: 3 Receiving Water: THE GUC (HAREFIELD REACH)	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2005 Effective Date: 01/04/2005 Revocation Date: 29/03/2006
C	403m W	MAPLE LODGE STW, BUCKS, MAPLE LODGE STW, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CNTD.0071 Permit Version: 4 Receiving Water: THE GUC (HAREFIELD REACH)	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 29/06/2007 Effective Date: 29/06/2007 Revocation Date: 31/03/2009



ID	Location	Address	Details	
C	426m NW	MAPLE LODGE STW, BUCKS, MAPLE LODGE STW, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CNTD.0071 Permit Version: 2 Receiving Water: RIVER COLNE	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 23/11/1989 Effective Date: 18/12/1998 Revocation Date: 31/03/2005
C	426m NW	MAPLE LODGE STW, BUCKS, MAPLE LODGE STW, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CNTD.0071 Permit Version: 1 Receiving Water: RIVER COLNE	Status: BY DIRECT. OF SEC OF STATE, (WATER ACT 1989 SCHED 26 & 25(4)(5)) Issue date: 23/11/1989 Effective Date: 23/11/1989 Revocation Date: 17/12/1998

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

1

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

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Address	Details	
C	426m NW	THAMES WATER UTILITIES LIMITED, MAPLE LODGE STW, BUCKS, MAPLE LODGE STW, BUCKS	Permit Number: CNTD.0071 Permit Version: 2 Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Discharge Type: Sewage Disposal Works - water company	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Catchment: - Approval Date: 18/12/1998

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

2

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.

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Name	Status	Receiving Water	Authorised Substances
C	426m NW	Maple Lodge Stw	Active	-	-
C	426m NW	Maple Lodge Stw	Not Active	-	-

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

4.17 List 2 Dangerous Substances

Records within 500m

11

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

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Name	Status	Receiving Water	Authorised Substances
C	426m NW	Building Research Establishment Ltd	Active	Guc	Chromium, Copper, Cyanide, Toluene, Xylene, Phenol
C	426m NW	Eisai Europe Ltd	Active	Guc	Chromium, Copper, Cyanide, Lead, Nickel, Zinc
C	426m NW	Davin Optronics	Active	-	Chromium, Copper, Lead, Nickel, Zinc
C	426m NW	Cancer Research Uk	Active	-	Chromium, Copper, Lead, Nickel, Zinc
C	426m NW	Trinity Mirror Printing Watford Ltd	Active	-	Chromium, Copper, Lead, Nickel, Zinc
C	426m NW	Ge Healthcare Ltd	Active	-	Chromium, Nickel, Zinc
C	426m NW	Mirror Colour Print (watford) Ltd, St Albans Rd, Watford	Not Active	Guc	Copper
C	426m NW	Baker Engineering Co, 11 Paramount Ind Est, Watford	Active	Guc	Chromium, Copper, Cyanide, Nickel, Zinc
C	426m NW	Amersham International, White Lion Rd, Amersham	Not Active	Guc	Chromium, Copper, Lead, Nickel, Zinc



ID	Location	Name	Status	Receiving Water	Authorised Substances
C	426m NW	Ddd Ltd, 94 Rickmansworth Rd, Watford	Active	Guc	Zinc
C	426m NW	Maple Lodge Stw, Thames Water Utilities	Active	Guc	Iron

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

7

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

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Details	
2	325m N	Incident Date: 26/10/2001 Incident Identification: 39190 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
C	403m NW	Incident Date: 01/06/2016 Incident Identification: 1439893 Pollutant: Sewage Materials Pollutant Description: Sludge	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	417m NW	Incident Date: 19/03/2002 Incident Identification: 64955 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	425m NW	Incident Date: 01/02/2003 Incident Identification: 134475 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4	432m NW	Incident Date: 19/01/2003 Incident Identification: 131949 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	452m W	Incident Date: 18/06/2003 Incident Identification: 166931 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
C	466m NW	Incident Date: 04/02/2002 Incident Identification: 56099 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	29
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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.

Features are displayed on the Current industrial land use map on **page 31**

ID: C, Location: 426m NW, Permit: CNTD.0071
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: MAPLE LODGE STW WD3 9SQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Fluoranthene	0.1kg	0.3843kg

ID: C, Location: 426m NW, Permit: CNTD.0071
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: MAPLE LODGE STW WD3 9SQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Copper	20kg	656kg



ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Benzo(g,h,i)perylene	0.1kg	0.5977kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Chlorides - as Cl	2000000kg	3810967kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Phosphorus - as total P	5000kg	47022.67kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Tributyltin and compounds - as TBT	0.005kg	0.03288kg



ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Cyanides - as CN	50kg	67.9kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Zinc	100kg	2040kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Nickel	20kg	265kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Ammonia	1000kg	1495kg



ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Di(2-ethylhexyl)phthalate (DEHP)	0.1kg	88.5kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Mercury	0.1kg	1.249kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Anthracene	0.1kg	1.846kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Nitrogen - as total N	50000kg	998111kg



ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Naphthalene	1kg	50.8kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Fluorides - as F	2000kg	10889kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Dichloromethane (DCM) (Methylene chloride)	10kg	10.674kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Lead	20kg	52.3kg



ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Indeno(1,2,3-cd)pyrene	1kg	2.18kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Benzo(a)pyrene	1kg	1.7kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Arsenic	5kg	24.34kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon dioxide	10000000kg	22417454kg



ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Diuron	0.05kg	5.616kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Halogenated organic compounds - as AOX	1000kg	5156kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Cadmium	1kg	5.44kg

ID: C, Location: 426m NW, Permit: CNTD.0071
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: MAPLE LODGE STW WD3 9SQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Asbestos	0.1kg	3.843kg



ID: C, Location: 426m NW, Permit: CNTD.0071
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: MAPLE LODGE STW WD3 9SQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Methane	10000kg	34160kg

ID: C, Location: 426m NW, Permit: CNTD.0071
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: MAPLE LODGE STW WD3 9SQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Total organic carbon (TOC)	50000kg	111020kg

ID: C, Location: 426m NW, Permit: CNTD.0071
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: MAPLE LODGE STW WD3 9SQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Chloroform (Trichloromethane)	5kg	6.651kg

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

4.20 Pollution inventory waste transfers

Records within 500m

1

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.

Features are displayed on the Current industrial land use map on **page 31**



ID: C, Location: 426m NW, Permit: CNTD.0071
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: MAPLE LODGE STW WD3 9SQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D1	Deposit into or onto land (eg landfill, etc.)	447.44	Absolute Value	19 08 01	screenings	0
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	374.38	Absolute Value	19 08 02	waste from desanding	0
R10	Land treatment resulting in benefit to agriculture or ecological improvement	9937.39	Absolute Value	19 08 05	sludges from treatment of urban waste water	0

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

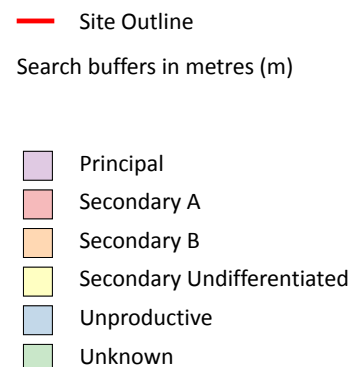
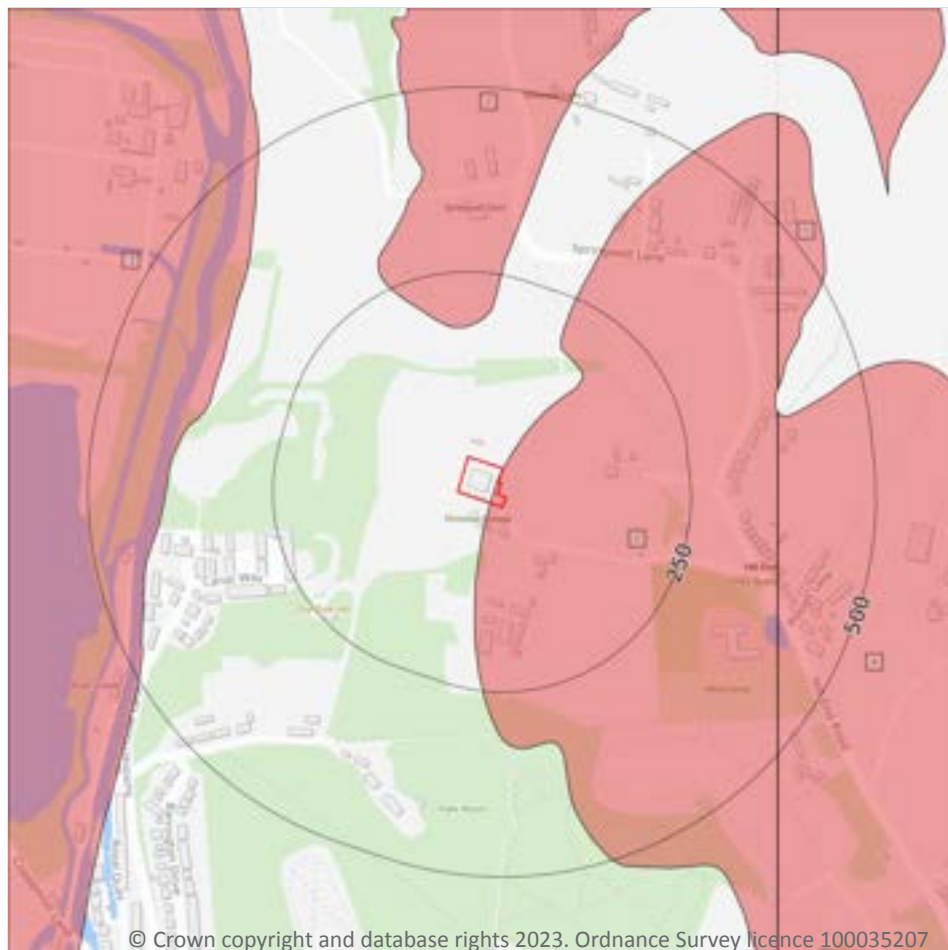
4.21 Pollution inventory radioactive waste

Records within 500m	0
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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



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5.1 Superficial aquifer

Records within 500m

5

Aquifer status of groundwater held within superficial geology.

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

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	175m N	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

ID	Location	Designation	Description
3	356m W	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
4	367m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	387m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



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

3

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 50**

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	128m W	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

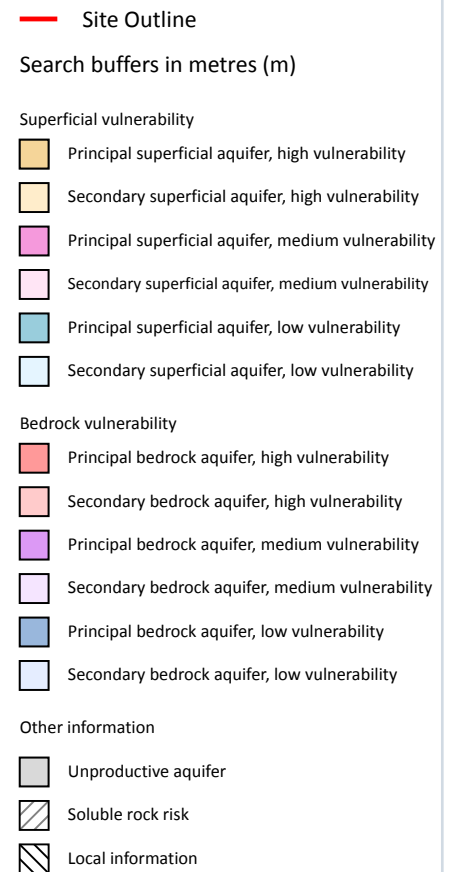
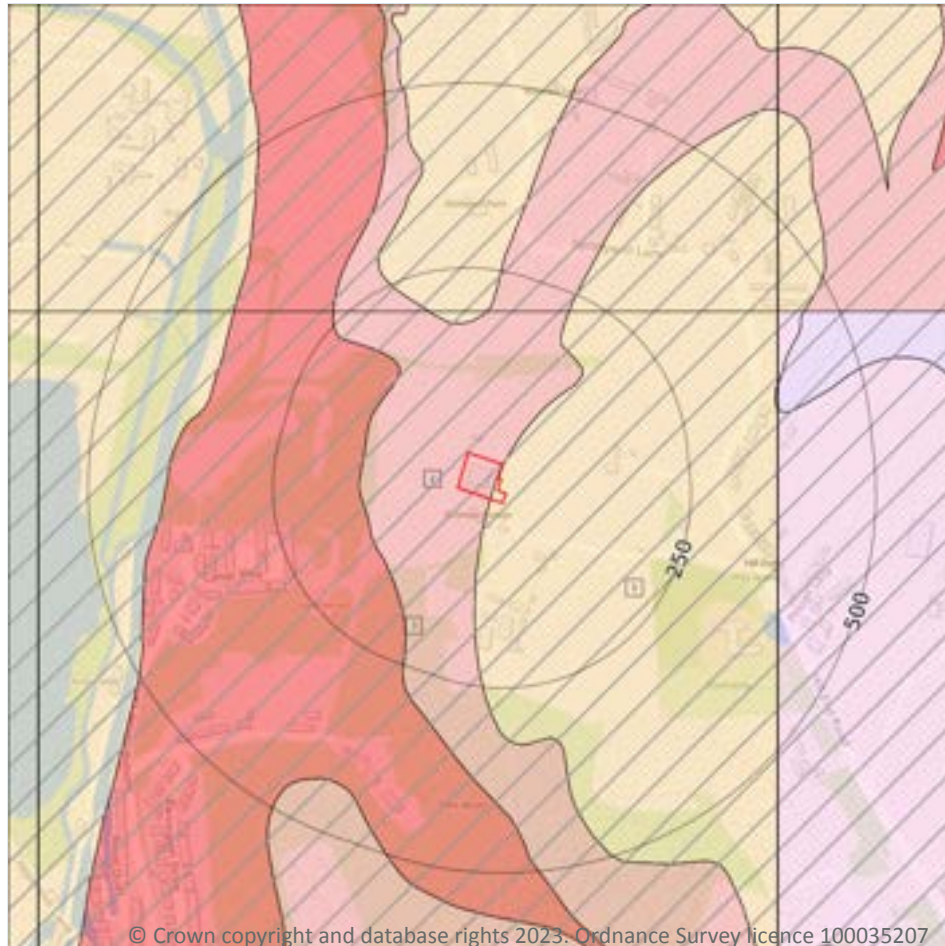


ID	Location	Designation	Description
3	367m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

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 52**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	1
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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.

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
3	Very significant soluble rocks are likely to be present with a high possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, especially in adverse conditions such as concentrated surface or subsurface water flow.	4.0%

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

5.5 Groundwater vulnerability- local information

Records on site	0
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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

40

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 54**

ID	Location	Details	
A	479m NW	Status: Historical Licence No: 28/39/28/0116 Details: Process Water Direct Source: THAMES GROUNDWATER Point: WELL 'E' AT MAPLE CROSS SEWAGE WORKS, MAPLE CROSS Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 504200 Northing: 192100	Annual Volume (m ³): 145472 Max Daily Volume (m ³): 545.5 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/06/1998 Version End Date: -
A	479m NW	Status: Active Licence No: 28/39/28/0116 Details: Process Water Direct Source: THAMES GROUNDWATER Point: WELL 'E' AT MAPLE CROSS SEWAGE WORKS, MAPLE CROSS Data Type: Point Name: Thames Water Utilities Ltd Easting: 504200 Northing: 192100	Annual Volume (m ³): 145472 Max Daily Volume (m ³): 545.5 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/01/2007 Version End Date: -
-	785m NW	Status: Historical Licence No: 28/39/28/0113 Details: Process Water Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT MAPLE CROSS SEWAGE WORKS, MAPLE CROSS Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 503900 Northing: 192200	Annual Volume (m ³): 181840 Max Daily Volume (m ³): 909.2 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/06/1998 Version End Date: -
-	785m NW	Status: Active Licence No: 28/39/28/0113 Details: Process Water Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT MAPLE CROSS SEWAGE WORKS, MAPLE CROSS Data Type: Point Name: Thames Water Utilities Ltd Easting: 503900 Northing: 192200	Annual Volume (m ³): 181840 Max Daily Volume (m ³): 909.2 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/01/2007 Version End Date: -

ID	Location	Details	
-	789m NW	Status: Historical Licence No: 28/39/28/0493 Details: Fish Farm/Cress Pond Throughflow Direct Source: THAMES GROUNDWATER Point: THREE BOREHOLES AT HAREFIELD, MIDDLESEX Data Type: Point Name: SPRINGWELL FARM LIMITED Easting: 504200 Northing: 192500	Annual Volume (m ³): 593100 Max Daily Volume (m ³): 593100 Original Application No: - Original Start Date: 26/02/1991 Expiry Date: - Issue No: 100 Version Start Date: 29/08/2000 Version End Date: -
-	789m NW	Status: Historical Licence No: 28/39/28/0493 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: THREE BOREHOLES AT HAREFIELD, MIDDLESEX Data Type: Point Name: SPRINGWELL FARM LIMITED Easting: 504200 Northing: 192500	Annual Volume (m ³): 593100 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 26/02/1991 Expiry Date: - Issue No: 101 Version Start Date: 05/04/2012 Version End Date: -
-	796m SE	Status: Active Licence No: 28/39/28/0514 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: HAREFIELD HOSPITAL- BOREHOLE Data Type: Point Name: ROYAL BROMPTON AND HAREFIELD NHS TRUST Easting: 505100 Northing: 191100	Annual Volume (m ³): 60000 Max Daily Volume (m ³): 190 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 101 Version Start Date: 18/09/2006 Version End Date: -
-	878m NW	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: SPRINGWELL PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 504200 Northing: 192600	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -
-	883m NW	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: SPRINGWELL PUMPING STATION 'F1' Data Type: Point Name: Affinity Water Limited Easting: 504147 Northing: 192578	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -



ID	Location	Details	
-	917m NW	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: SPRINGWELL PUMPING STATION 'F3' Data Type: Point Name: Affinity Water Limited Easting: 504154 Northing: 192621	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	934m NW	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: SPRINGWELL PUMPING STATION 'F2' Data Type: Point Name: Affinity Water Limited Easting: 504147 Northing: 192636	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	936m SE	Status: Historical Licence No: 28/39/28/0514 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT HAREFIELD HOSPITAL, HAREFIELD, MIDDLESEX Data Type: Point Name: HAREFIELD HOSPITAL NHS TRUST Easting: 505200 Northing: 191000	Annual Volume (m ³): 60000 Max Daily Volume (m ³): 190 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 100 Version Start Date: 28/10/1994 Version End Date: -
-	1011m W	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION 'G1' Data Type: Point Name: Affinity Water Limited Easting: 503610 Northing: 191436	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1056m SW	Status: Historical Licence No: 28/39/28/0584 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: CLARE HOUSE, COPPERMILL LANE- BOREHOLE Data Type: Point Name: CLANCY PLANT HIRE LIMITED Easting: 504050 Northing: 190840	Annual Volume (m ³): 13505 Max Daily Volume (m ³): 37 Original Application No: - Original Start Date: 01/06/2004 Expiry Date: 31/03/2014 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -

ID	Location	Details	
-	1085m W	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION 'G3' Data Type: Point Name: Affinity Water Limited Easting: 503550 Northing: 191382	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1086m W	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION 'G2' Data Type: Point Name: Affinity Water Limited Easting: 503548 Northing: 191385	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1126m W	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 503500 Northing: 191400	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -
-	1175m W	Status: Historical Licence No: 28/39/28/0108 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: WELL AT LYNSTERS FARM, WEST HYDE Data Type: Point Name: LORY Easting: 503400 Northing: 191900	Annual Volume (m ³): 6228 Max Daily Volume (m ³): 22.73 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/03/1969 Version End Date: -
-	1292m SW	Status: Historical Licence No: 28/39/28/0432 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT TROY LAKE, WEST HYDE, RICKMANSWORTH Data Type: Point Name: RICKMANSWORTH SAILING CLUB Easting: 504000 Northing: 190600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/03/1977 Expiry Date: - Issue No: 100 Version Start Date: 30/03/1977 Version End Date: -

ID	Location	Details	
-	1402m NW	Status: Historical Licence No: 28/39/28/0115 Details: Process Water Direct Source: THAMES GROUNDWATER Point: WELL 'D' AT MAPLE CROSS SEWAGE WORKS, RICKMANSWORTH Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 503700 Northing: 192900	Annual Volume (m ³): 40914 Max Daily Volume (m ³): 113.6 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/06/1998 Version End Date: -
-	1402m NW	Status: Active Licence No: 28/39/28/0115 Details: Process Water Direct Source: THAMES GROUNDWATER Point: WELL 'D' AT MAPLE CROSS SEWAGE WORKS, RICKMANSWORTH Data Type: Point Name: Thames Water Utilities Ltd Easting: 503700 Northing: 192900	Annual Volume (m ³): 40914 Max Daily Volume (m ³): 113.6 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/01/2007 Version End Date: -
-	1467m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STOCKERS PUMPING STATION 'D1' Data Type: Point Name: Affinity Water Limited Easting: 504766 Northing: 193265	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1470m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STOCKERS PUMPING STATION 'D2' Data Type: Point Name: Affinity Water Limited Easting: 504766 Northing: 193268	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1495m N	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STOCKERS PUMPING STATION 'D' Data Type: Point Name: Affinity Water Limited Easting: 504700 Northing: 193300	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -



ID	Location	Details	
-	1507m NW	Status: Active Licence No: 28/39/28/0193 Details: Fish Farm/Cress Pond Throughflow Direct Source: THAMES GROUNDWATER Point: SIX BOREHOLES AT SPRINGWELL LANE, HAREFIELD Data Type: Point Name: J PAYNE (COLNE VALLEY) LTD Easting: 504000 Northing: 193200	Annual Volume (m ³): 699175 Max Daily Volume (m ³): 4650 Original Application No: - Original Start Date: 10/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 26/11/1990 Version End Date: -
-	1548m N	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STOCKERS PUMPING STATION 'E' Data Type: Point Name: Affinity Water Limited Easting: 505000 Northing: 193300	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -
-	1559m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STOCKERS PUMPING STATION 'E1' Data Type: Point Name: Affinity Water Limited Easting: 505042 Northing: 193299	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1561m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STOCKERS PUMPING STATION 'E2' Data Type: Point Name: Affinity Water Limited Easting: 505048 Northing: 193299	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1788m N	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MILL END PUMPING STATION Data Type: Point Name: THREE VALLEYS WATER PLC Easting: 504000 Northing: 193500	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 101 Version Start Date: 05/09/2003 Version End Date: -

ID	Location	Details	
-	1788m N	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MILL END PUMPING STATION, RICKMANSWORTH Data Type: Point Name: Affinity Water Limited Easting: 504000 Northing: 193500	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -
-	1800m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MILL END PUMPING STATION 'C5' Data Type: Point Name: Affinity Water Limited Easting: 503991 Northing: 193510	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1820m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MILL END PUMPING STATION 'C4' Data Type: Point Name: Affinity Water Limited Easting: 504000 Northing: 193534	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1867m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MILL END PUMPING STATION 'C2' Data Type: Point Name: Affinity Water Limited Easting: 503997 Northing: 193583	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1871m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MILL END PUMPING STATION 'C3' Data Type: Point Name: Affinity Water Limited Easting: 503986 Northing: 193583	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -



ID	Location	Details	
-	1872m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MILL END PUMPING STATION 'C1' Data Type: Point Name: Affinity Water Limited Easting: 504003 Northing: 193590	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1877m NE	Status: Historical Licence No: 28/39/28/0114 Details: Process Water Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT JUNIPER HILL PUMPING STATION Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 505600 Northing: 193400	Annual Volume (m ³): 204570 Max Daily Volume (m ³): 681.9 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/06/1998 Version End Date: -
-	1877m NE	Status: Active Licence No: 28/39/28/0114 Details: Process Water Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT JUNIPER HILL PUMPING STATION Data Type: Point Name: Thames Water Utilities Ltd Easting: 505600 Northing: 193400	Annual Volume (m ³): 204570 Max Daily Volume (m ³): 681.9 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/01/2007 Version End Date: -
-	1891m NW	Status: Historical Licence No: 28/39/28/0165 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT WOODOAKS FARM, RICKMANSWORTH Data Type: Point Name: FINDLAY Easting: 503300 Northing: 193200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 05/09/1966 Version End Date: -
-	1929m SW	Status: Historical Licence No: 28/39/28/0358 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: BOREHOLE A AT PYNESFIELD FARM, WEST HYDE Data Type: Point Name: LORY Easting: 503200 Northing: 190400	Annual Volume (m ³): 19304 Max Daily Volume (m ³): 324 Original Application No: - Original Start Date: 08/01/1968 Expiry Date: - Issue No: 100 Version Start Date: 25/09/1997 Version End Date: -



ID	Location	Details	
-	1929m SW	Status: Historical Licence No: 28/39/28/0358 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE A AT PYNESFIELD FARM, WEST HYDE Data Type: Point Name: LORY Easting: 503200 Northing: 190400	Annual Volume (m ³): 19304 Max Daily Volume (m ³): 324 Original Application No: - Original Start Date: 08/01/1968 Expiry Date: - Issue No: 100 Version Start Date: 25/09/1997 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	0
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Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

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

5.8 Potable abstractions

Records within 2000m	24
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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 54**

ID	Location	Details	
-	796m SE	Status: Active Licence No: 28/39/28/0514 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: HAREFIELD HOSPITAL- BOREHOLE Data Type: Point Name: ROYAL BROMPTON AND HAREFIELD NHS TRUST Easting: 505100 Northing: 191100	Annual Volume (m ³): 60000 Max Daily Volume (m ³): 190 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 101 Version Start Date: 18/09/2006 Version End Date: -

ID	Location	Details	
-	878m NW	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: SPRINGWELL PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 504200 Northing: 192600	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -
-	883m NW	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: SPRINGWELL PUMPING STATION 'F1' Data Type: Point Name: Affinity Water Limited Easting: 504147 Northing: 192578	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	917m NW	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: SPRINGWELL PUMPING STATION 'F3' Data Type: Point Name: Affinity Water Limited Easting: 504154 Northing: 192621	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	934m NW	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: SPRINGWELL PUMPING STATION 'F2' Data Type: Point Name: Affinity Water Limited Easting: 504147 Northing: 192636	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	936m SE	Status: Historical Licence No: 28/39/28/0514 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT HAREFIELD HOSPITAL, HAREFIELD, MIDDLESEX Data Type: Point Name: HAREFIELD HOSPITAL NHS TRUST Easting: 505200 Northing: 191000	Annual Volume (m ³): 60000 Max Daily Volume (m ³): 190 Original Application No: - Original Start Date: 05/10/1992 Expiry Date: - Issue No: 100 Version Start Date: 28/10/1994 Version End Date: -



ID	Location	Details	
-	1011m W	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION 'G1' Data Type: Point Name: Affinity Water Limited Easting: 503610 Northing: 191436	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1085m W	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION 'G3' Data Type: Point Name: Affinity Water Limited Easting: 503550 Northing: 191382	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1086m W	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION 'G2' Data Type: Point Name: Affinity Water Limited Easting: 503548 Northing: 191385	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1126m W	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: WEST HYDE PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 503500 Northing: 191400	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -
-	1292m SW	Status: Historical Licence No: 28/39/28/0432 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT TROY LAKE, WEST HYDE, RICKMANSWORTH Data Type: Point Name: RICKMANSWORTH SAILING CLUB Easting: 504000 Northing: 190600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/03/1977 Expiry Date: - Issue No: 100 Version Start Date: 30/03/1977 Version End Date: -

ID	Location	Details	
-	1467m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STOCKERS PUMPING STATION 'D1' Data Type: Point Name: Affinity Water Limited Easting: 504766 Northing: 193265	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1470m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STOCKERS PUMPING STATION 'D2' Data Type: Point Name: Affinity Water Limited Easting: 504766 Northing: 193268	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1495m N	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STOCKERS PUMPING STATION 'D' Data Type: Point Name: Affinity Water Limited Easting: 504700 Northing: 193300	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -
-	1548m N	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STOCKERS PUMPING STATION 'E' Data Type: Point Name: Affinity Water Limited Easting: 505000 Northing: 193300	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -
-	1559m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STOCKERS PUMPING STATION 'E1' Data Type: Point Name: Affinity Water Limited Easting: 505042 Northing: 193299	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -

ID	Location	Details	
-	1561m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: STOCKERS PUMPING STATION 'E2' Data Type: Point Name: Affinity Water Limited Easting: 505048 Northing: 193299	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1788m N	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MILL END PUMPING STATION Data Type: Point Name: THREE VALLEYS WATER PLC Easting: 504000 Northing: 193500	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 101 Version Start Date: 05/09/2003 Version End Date: -
-	1788m N	Status: Historical Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MILL END PUMPING STATION, RICKMANSWORTH Data Type: Point Name: Affinity Water Limited Easting: 504000 Northing: 193500	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: - Original Start Date: 15/06/1987 Expiry Date: - Issue No: 103 Version Start Date: 14/11/2012 Version End Date: -
-	1800m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MILL END PUMPING STATION 'C5' Data Type: Point Name: Affinity Water Limited Easting: 503991 Northing: 193510	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1820m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MILL END PUMPING STATION 'C4' Data Type: Point Name: Affinity Water Limited Easting: 504000 Northing: 193534	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -



ID	Location	Details	
-	1867m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MILL END PUMPING STATION 'C2' Data Type: Point Name: Affinity Water Limited Easting: 503997 Northing: 193583	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1871m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MILL END PUMPING STATION 'C3' Data Type: Point Name: Affinity Water Limited Easting: 503986 Northing: 193583	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -
-	1872m N	Status: Active Licence No: 28/39/28/0480 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MILL END PUMPING STATION 'C1' Data Type: Point Name: Affinity Water Limited Easting: 504003 Northing: 193590	Annual Volume (m ³): 32120000 Max Daily Volume (m ³): 146152 Original Application No: N/A Original Start Date: 15/06/1987 Expiry Date: - Issue No: 107 Version Start Date: 15/10/2021 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	2
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on **page 54**

ID	Location	Type	Description
1	On site	2	Outer catchment
2	494m W	1	Inner catchment

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



5.10 Source Protection Zones (confined aquifer)

Records within 500m

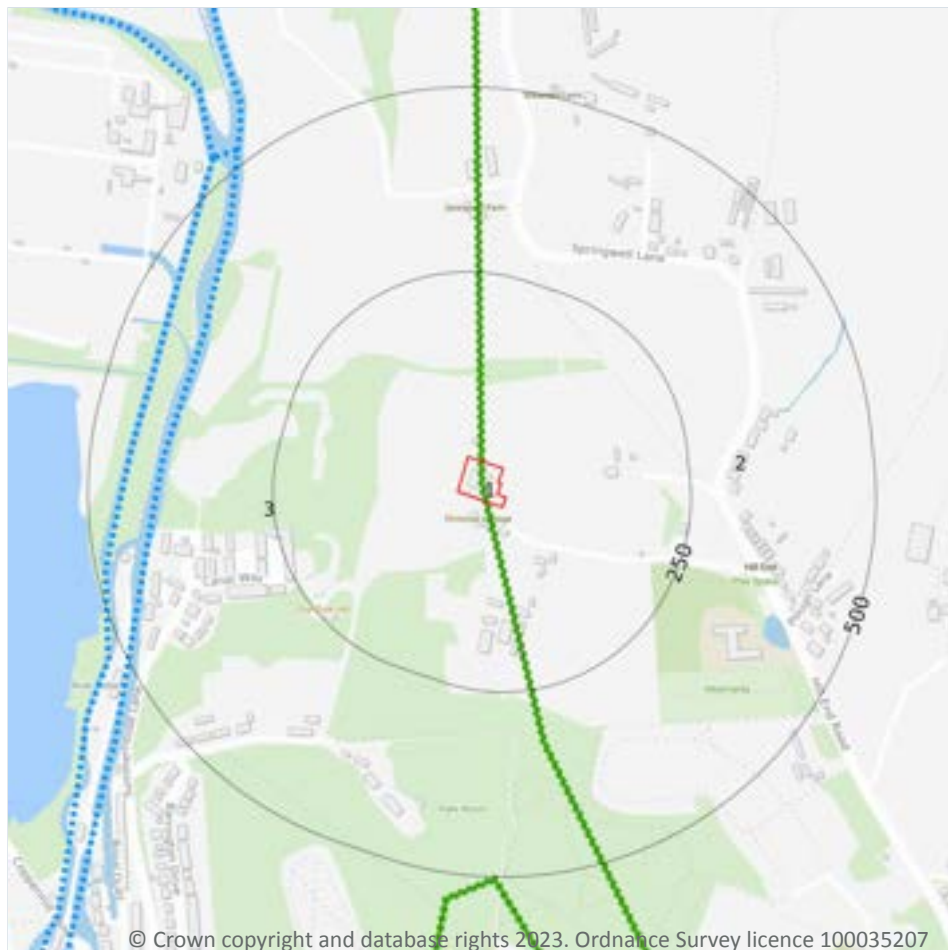
0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

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.

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 70**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Colne (Confluence with Chess to River Thames)	GB106039023090	Colne	Colne

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 70**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
9	440m W	River	Colne (Confluence with Chess to River Thames)	GB106039023090	Moderate	Fail	Moderate	2019

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



6.5 WFD Groundwater bodies

Records on site

2

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 70**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Radlett Tertiaries	<u>GB40602G602800</u>	Poor	Good	Poor	2019
3	On site	Mid-Chilterns Chalk	<u>GB40601G601200</u>	Poor	Poor	Poor	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

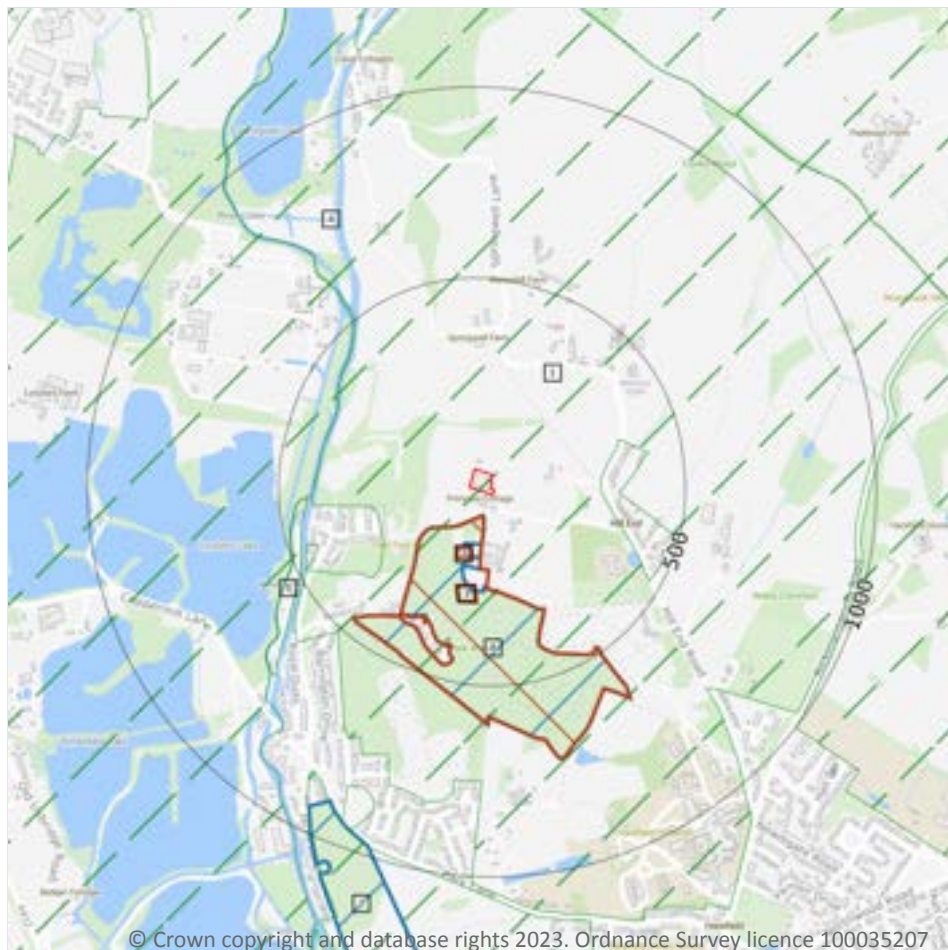
Low

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 77**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Local Nature Reserves (LNR)
- Designated Ancient Woodland
- Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

4

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

Features are displayed on the Environmental designations map on **page 78**

ID	Location	Name	Data source
A	59m S	Old Park Wood	Natural England

ID	Location	Name	Data source
7	898m SW	Mid Colne Valley	Natural England
-	1454m S	Mid Colne Valley	Natural England
-	1825m S	Harefield Pit	Natural England

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

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

2

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 78**

ID	Location	Name	Data source
-	1262m N	Stockers Lake	Natural England
-	1825m N	Rickmansworth Aquadrome	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

9

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 78**

ID	Location	Name	Woodland Type
A	59m S	Old Park Wood	Ancient & Semi-Natural Woodland
2	149m S	Old Park Wood	Ancient Replanted Woodland
3	241m S	Old Park Wood	Ancient Replanted Woodland
-	1303m E	Pearsons Wood	Ancient Replanted Woodland
-	1652m E	Unknown	Ancient & Semi-Natural Woodland



ID	Location	Name	Woodland Type
-	1743m E	Unknown	Ancient & Semi-Natural Woodland
-	1776m E	Unknown	Ancient Replanted Woodland
-	1889m E	Unknown	Ancient Replanted Woodland
-	1915m SE	Asham Spring Wood	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 **9**

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

Features are displayed on the Environmental designations map on **page 78**



ID	Location	Name	Local Authority name
1	On site	London	Hillingdon
4	391m NW	London	Three Rivers
5	424m W	London	Hillingdon
6	832m S	London	Hillingdon
8	967m E	London	Hillingdon
9	1226m S	London	Hillingdon
-	1454m SE	London	Hillingdon
-	1697m SE	London	Hillingdon
-	1823m S	London	Buckinghamshire

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 84**

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals.</p> <p>Wind and Solar - Wind turbines.</p> <p>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.</p> <p>Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha.</p> <p>Residential - Residential development of 50 units or more.</p> <p>Rural residential - Any residential development of 10 or more houses outside existing settlements/urban areas.</p> <p>Air pollution - Any development that could cause air pollution or dust either in its construction or operation (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores).</p> <p>Combustion - All general combustion processes. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management.</p> <p>Composting - Any composting proposal. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream.</p> <p>Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

6

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

Features are displayed on the SSSI Impact Zones and Units map on **page 84**

ID:	3
Location:	59m S
SSSI name:	Old Park Wood
Unit name:	Weybeard's Farm
Broad habitat:	Broadleaved, Mixed And Yew Woodland - Lowland
Condition:	Favourable
Reportable features:	



Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	15/01/2020

ID: 9
 Location: 302m S
 SSSI name: Old Park Wood
 Unit name: Eastern Area
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	15/01/2020

ID: 10
 Location: 302m S
 SSSI name: Old Park Wood
 Unit name: Parkwood Farm
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	15/01/2020

ID: C
 Location: 898m SW
 SSSI name: Mid Colne Valley
 Unit name: Coppermill Down
 Broad habitat: Calcareous Grassland - Lowland
 Condition: Unfavourable - Declining
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland calcareous grassland (CG3-5)	Unfavourable - Declining	22/07/2011

ID: -
Location: 1454m S
SSSI name: Mid Colne Valley
Unit name: Broadwater Lake
Broad habitat: Standing Open Water And Canals
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Tufted duck, Aythya fuligula	-	-
Aggregations of non-breeding birds - variety of wintering species	Favourable	16/02/2022
Assemblages of breeding birds - Mixed: Lowland damp grassland, Scrub, Woodland	Favourable	22/07/2011
Assemblages of breeding birds - variety of species	Favourable	22/07/2011

ID: -
Location: 1825m S
SSSI name: Harefield Pit
Unit name: 1
Broad habitat: Earth Heritage
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
ED - Palaeogene	Unfavourable - Recovering	30/03/2022
ED - Tertiary Palaeobotany	Unfavourable - Recovering	30/03/2022

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

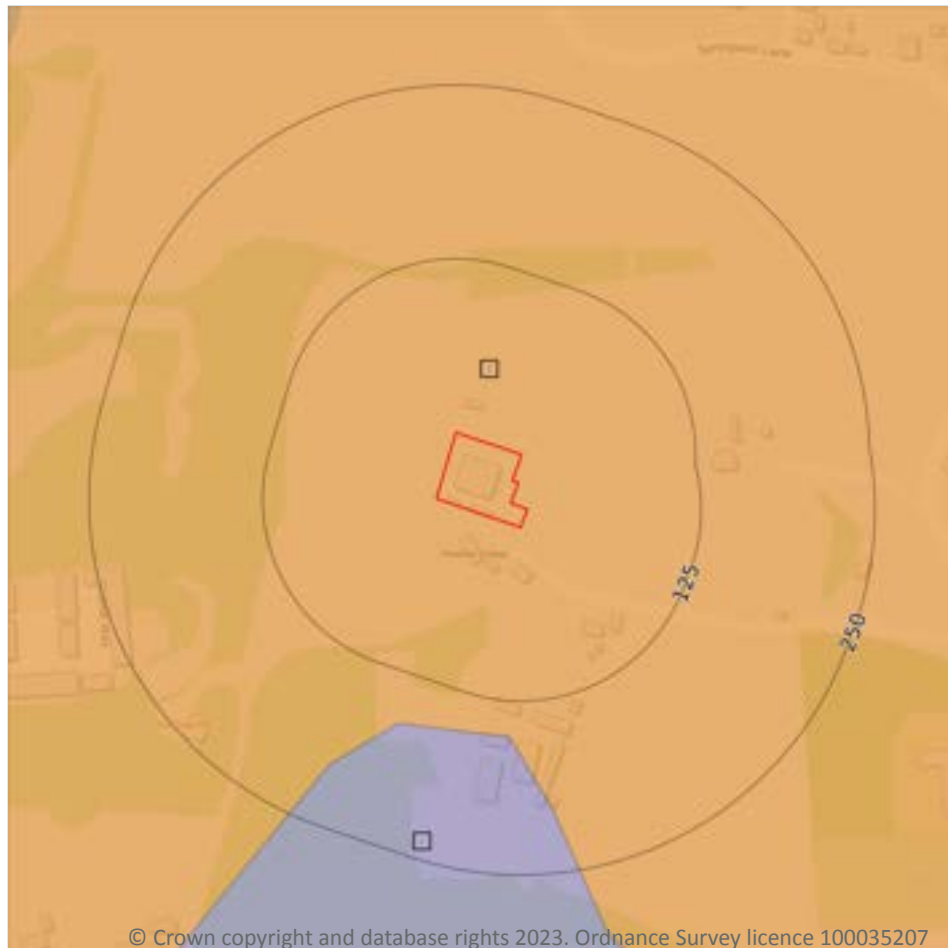
0

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

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 90**

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

ID	Location	Classification	Description
2	151m S	Non Agricultural	-

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

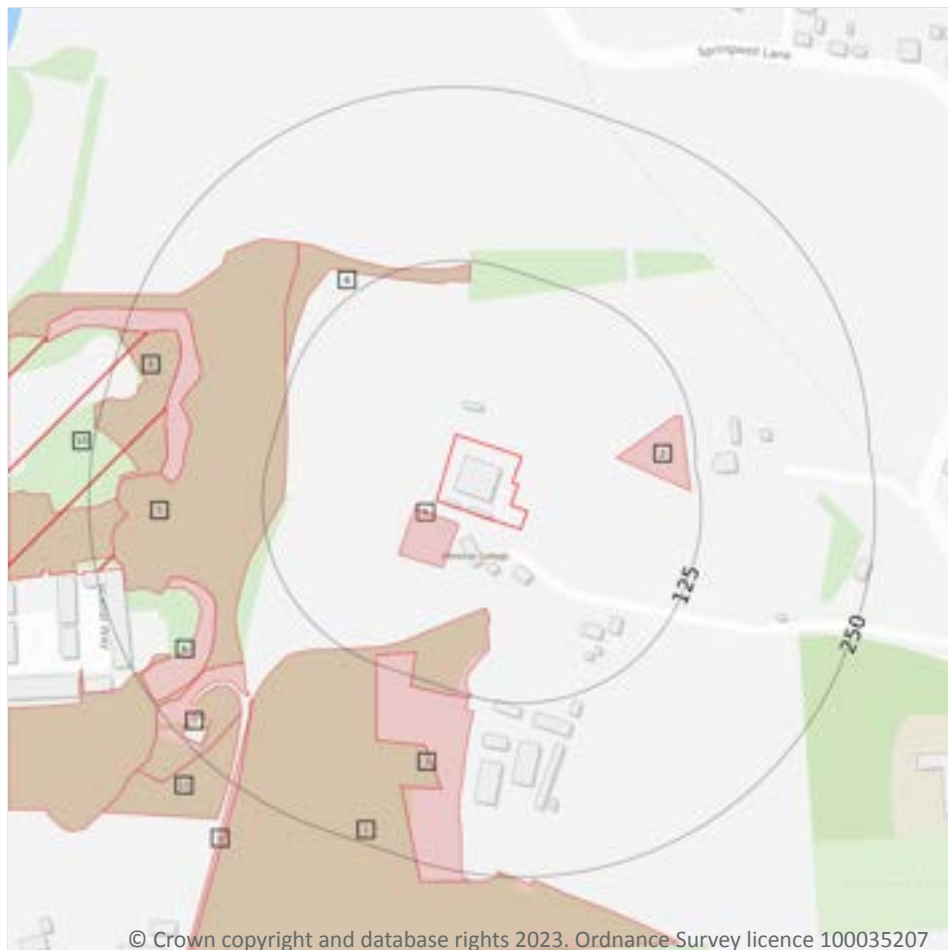
0

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



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

13.1 Priority Habitat Inventory

Records within 250m

12

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

Features are displayed on the Habitat designations map on **page 92**

ID	Location	Main Habitat	Other habitats
A	10m SW	Traditional orchard	Main habitat: TORCH (INV > 50%)
A	10m SW	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
1	62m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%, ENSIS L1)
2	68m E	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset



ID	Location	Main Habitat	Other habitats
3	108m S	No main habitat but additional habitats present	Main habitat: DWOOD (ENSIS L1)
4	109m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	109m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	175m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	181m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	184m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	194m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%, ENSIS L1)
11	207m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

1

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.

Features are displayed on the Habitat designations map on **page 92**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
10	196m W	Disused pits at One Tree Hill	Low	BugLife All Of A Buzz Data	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography

This data is sourced from Natural England.



13.4 Limestone Pavement Orders

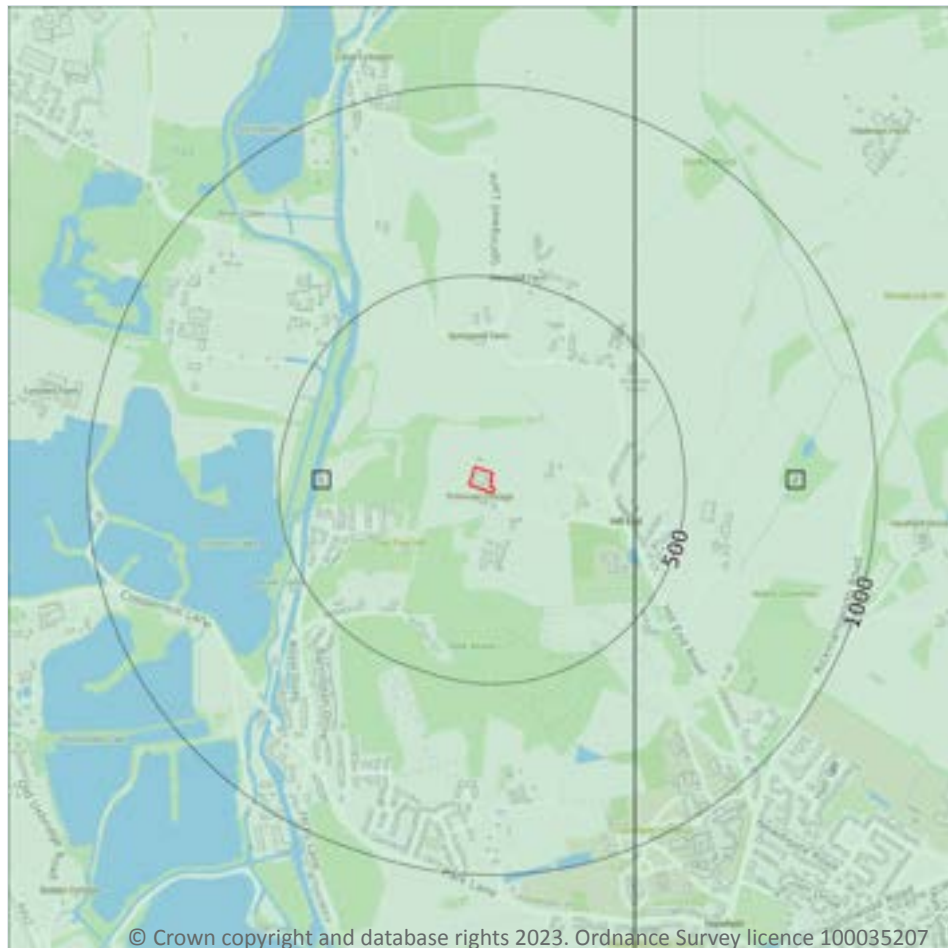
Records within 250m**0**

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Full coverage
 - Partial coverage
 - No coverage

14.1 10k Availability

Records within 500m

2

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

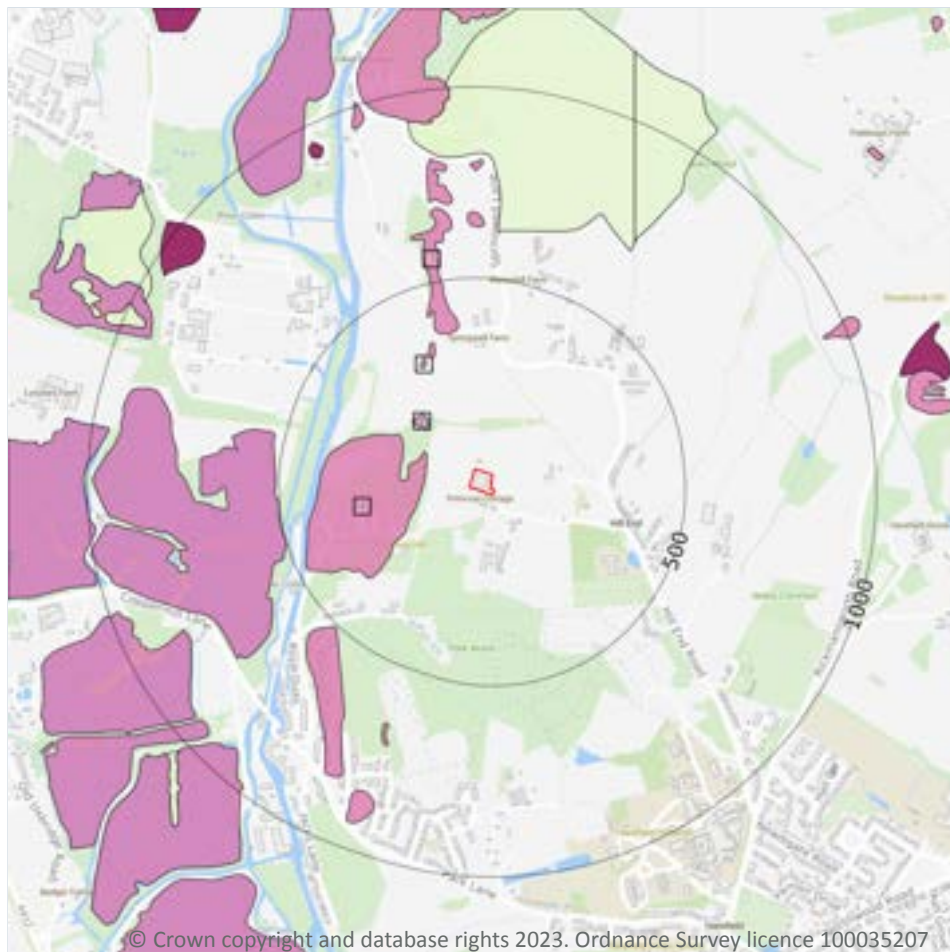
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 95**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TQ09SW
2	367m E	Full	Full	Full	No coverage	TQ09SE

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

5

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 96**

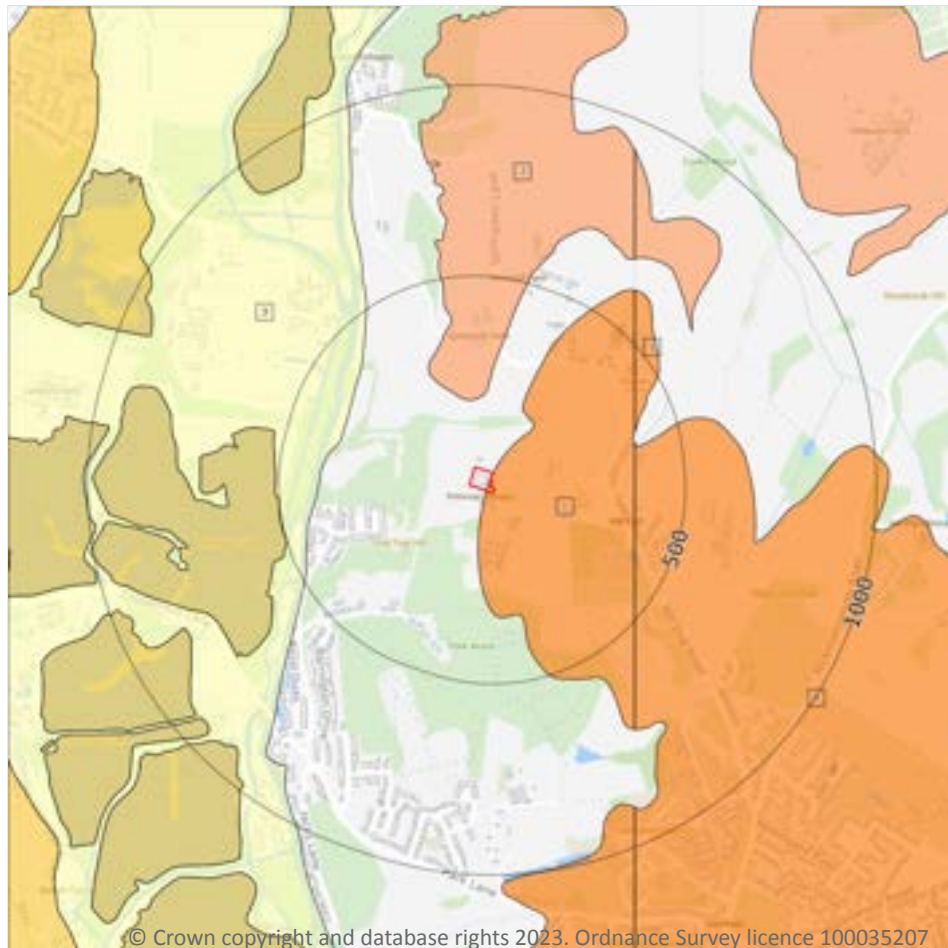
ID	Location	LEX Code	Description	Rock description
1	119m W	WGR-VOID	Worked Ground (Undivided)	Void
2	163m NW	WGR-VOID	Worked Ground (Undivided)	Void
A	295m NW	WGR-VOID	Worked Ground (Undivided)	Void
A	311m N	WGR-VOID	Worked Ground (Undivided)	Void

ID	Location	LEX Code	Description	Rock description
3	361m N	WGR-VOID	Worked Ground (Undivided)	Void

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

5

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 98**

ID	Location	LEX Code	Description	Rock description
1	On site	GCGR-XSV	Gerrards Cross Gravel - Sand And Gravel	Sand And Gravel
2	175m N	WIHG-XSV	Winter Hill Gravel - Sand And Gravel	Sand And Gravel
3	356m W	ALV-XZC	Alluvium - Silt And Clay	Silt And Clay
4	367m E	GCGR-XSV	Gerrards Cross Gravel - Sand And Gravel	Sand And Gravel



ID	Location	LEX Code	Description	Rock description
5	387m E	GCGR-XSV	Gerrards Cross Gravel - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

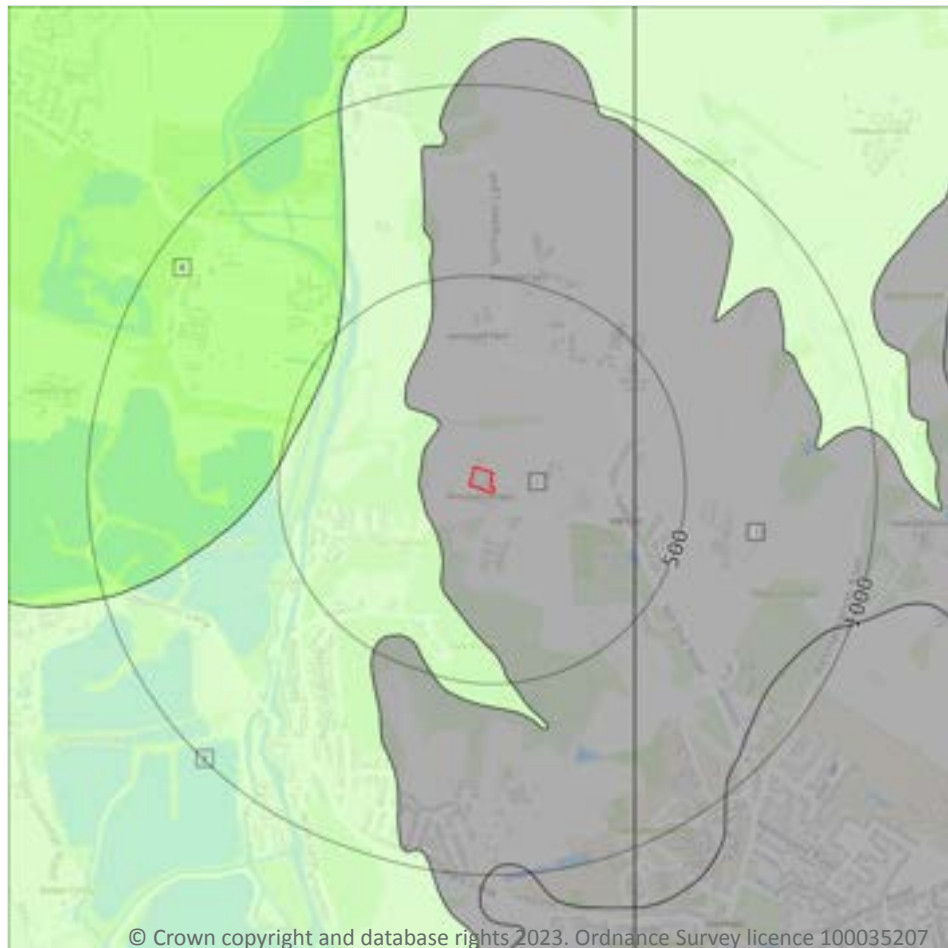
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

14.5 Bedrock geology (10k)

Records within 500m

4

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 100**

ID	Location	LEX Code	Description	Rock age
1	On site	LMBE-CLSISA	Lambeth Group - Clay, Silt And Sand	Paleocene Epoch
2	128m W	SNCK-CHLK	Seaford Chalk Formation And Newhaven Chalk Formation (undifferentiated) - Chalk	Campanian Age - Coniacian Age

ID	Location	LEX Code	Description	Rock age
3	367m E	LMBE- CLSISA	Lambeth Group - Clay, Silt And Sand	Paleocene Epoch
4	459m NW	LECH-CHLK	Lewes Nodular Chalk Formation - Chalk	Coniacian Age - Turonian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

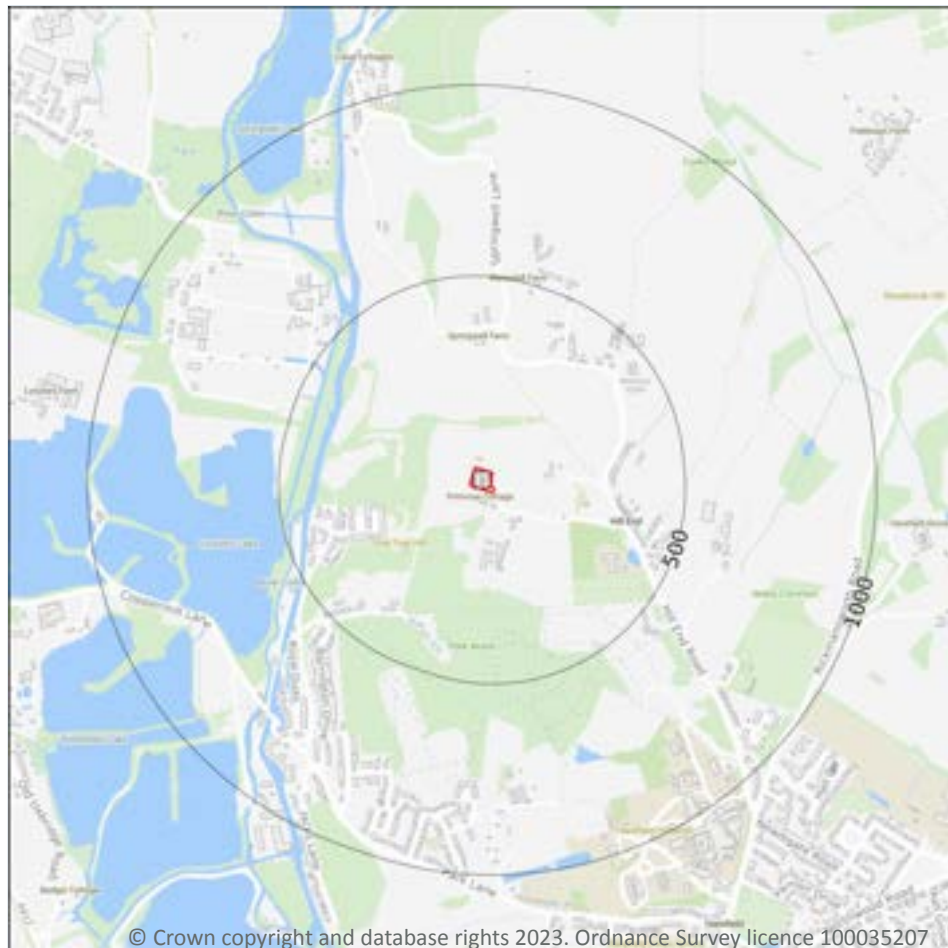
0

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.

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.

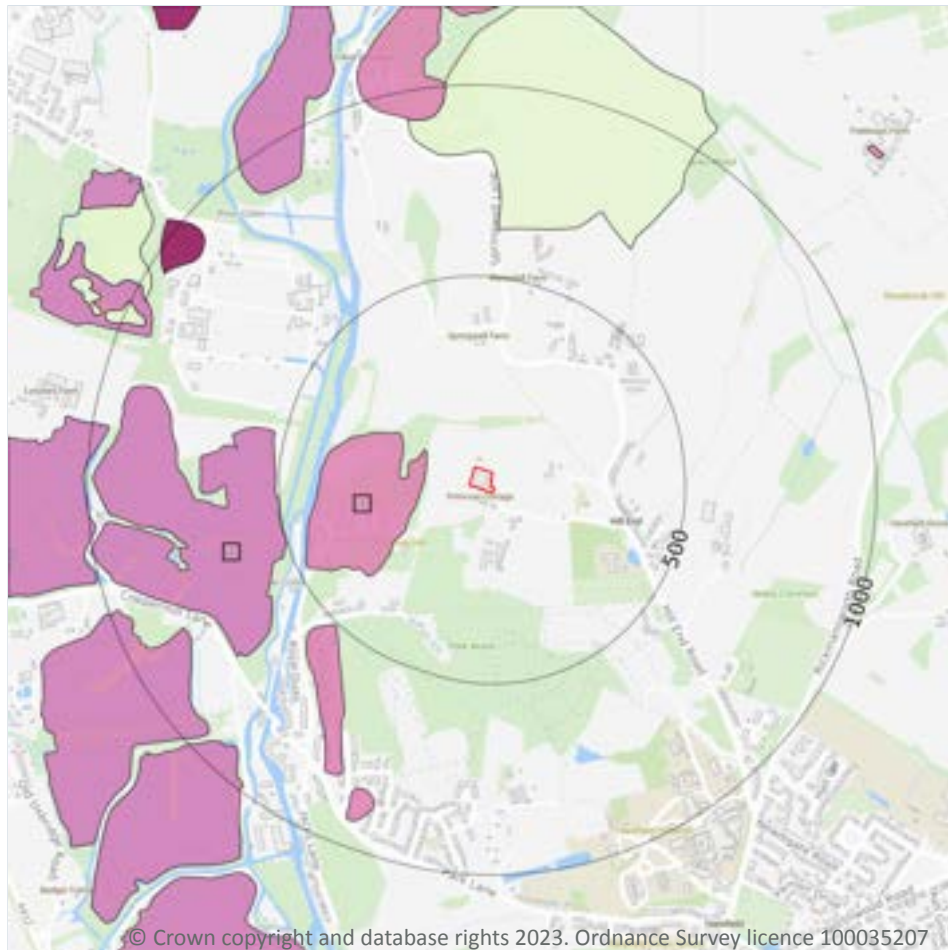
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 102**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW255_beaconsfield_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

2

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 103**

ID	Location	LEX Code	Description	Rock description
1	119m W	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
2	500m W	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

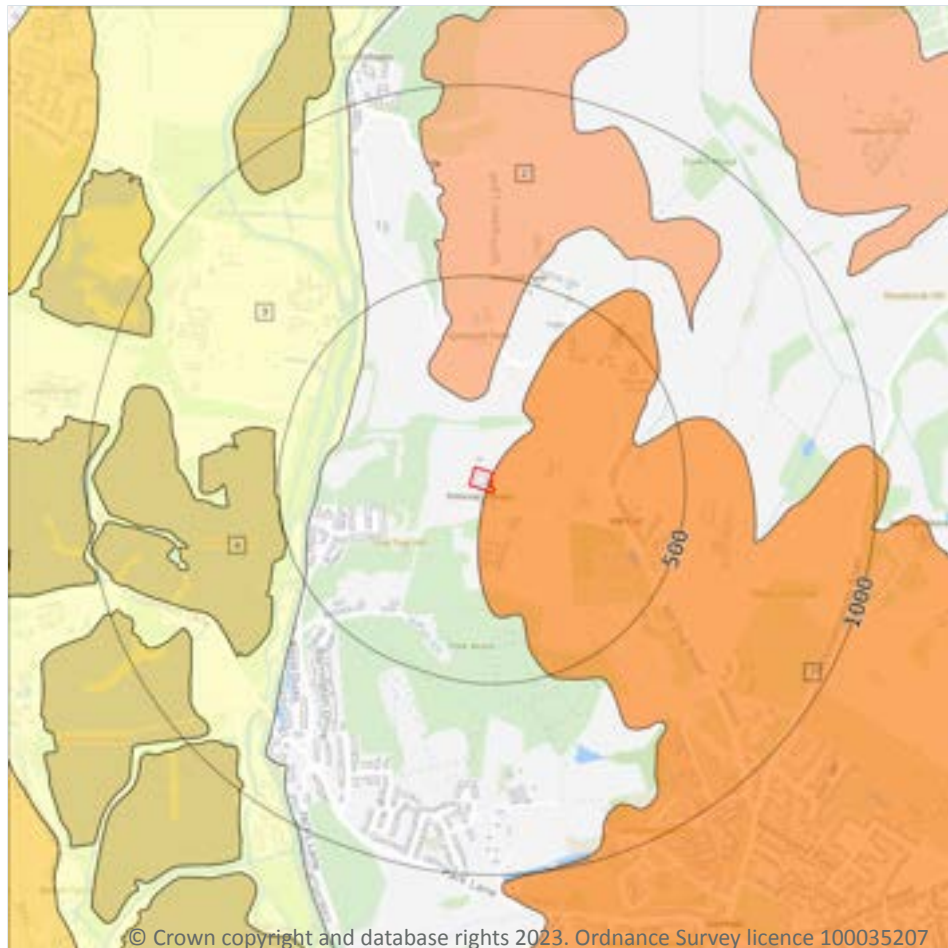
0

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

4

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 105**

ID	Location	LEX Code	Description	Rock description
1	On site	GCGR-XSV	GERRARDS CROSS GRAVEL	SAND AND GRAVEL
2	175m N	WIHG-XSV	WINTER HILL GRAVEL	SAND AND GRAVEL
3	356m W	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
4	500m W	SHGR-XSV	SHEPPERTON GRAVEL MEMBER	SAND AND GRAVEL



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	Intergranular	Very High	High

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

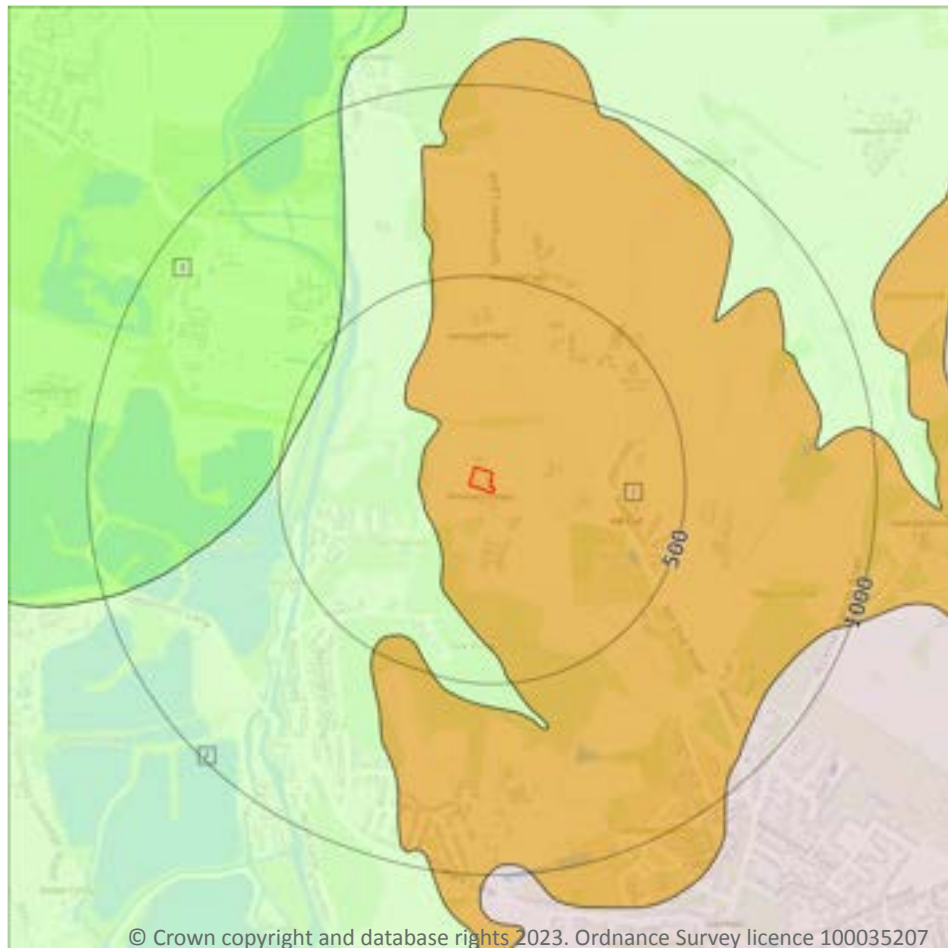
0

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

3

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 107**

ID	Location	LEX Code	Description	Rock age
1	On site	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN
2	128m W	SNCK-CHLK	SEAFORD CHALK FORMATION AND NEWHAVEN CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CONIACIAN
3	459m NW	LECH-CHLK	LEWES NODULAR CHALK FORMATION - CHALK	TURONIAN

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	Mixed	Moderate	Very Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.



16 Boreholes

16.1 BGS Boreholes

Records within 250m

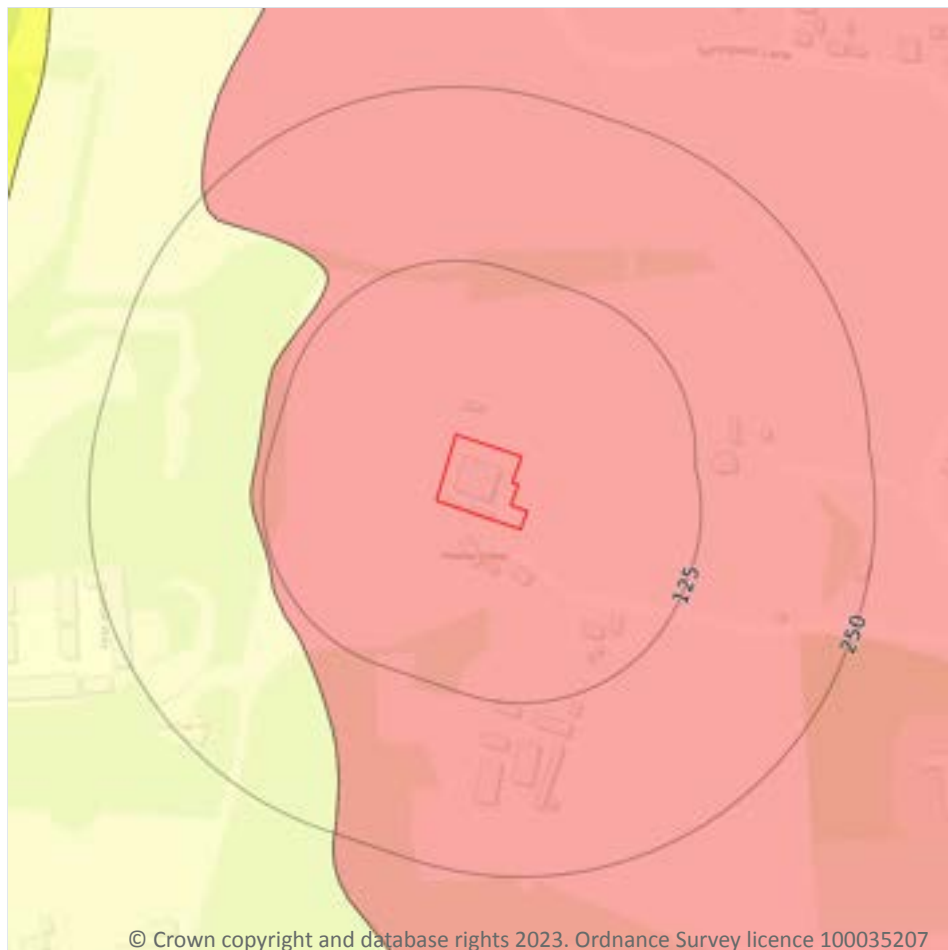
0

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

1

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

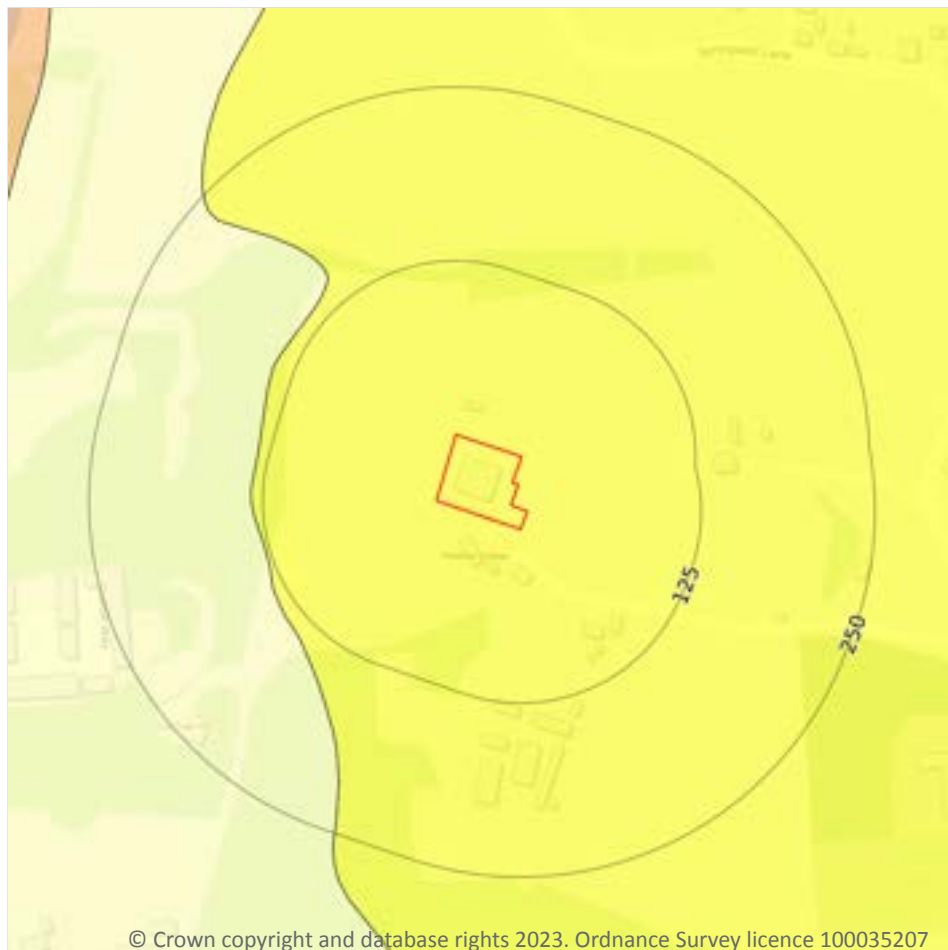
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 110**

Location	Hazard rating	Details
On site	Moderate	Ground conditions predominantly high plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Running sands map on **page 111**

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.

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.

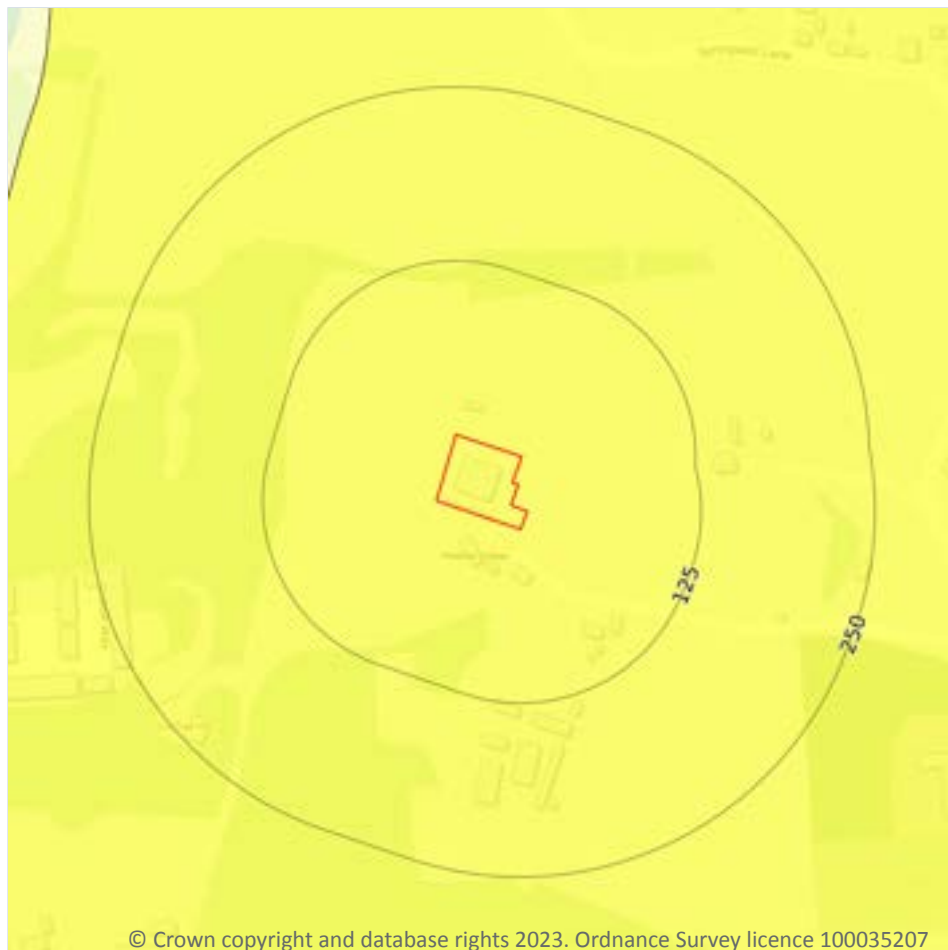
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 112**

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.

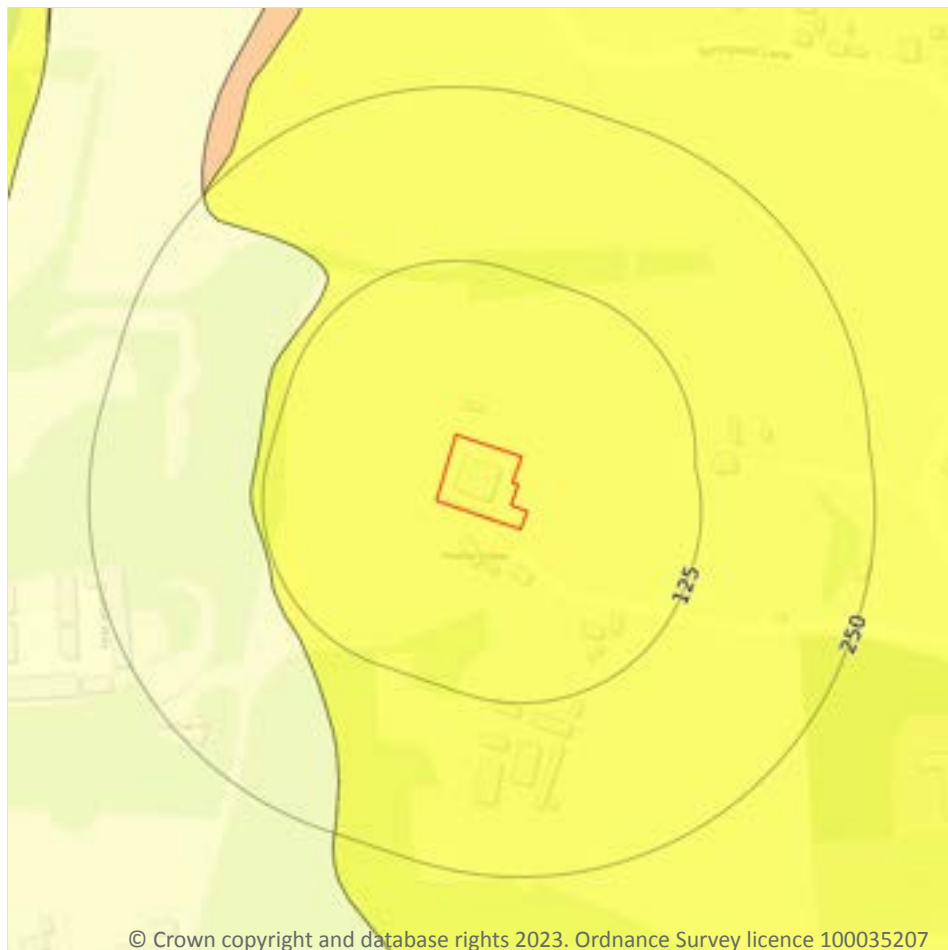
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 113**

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

1

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

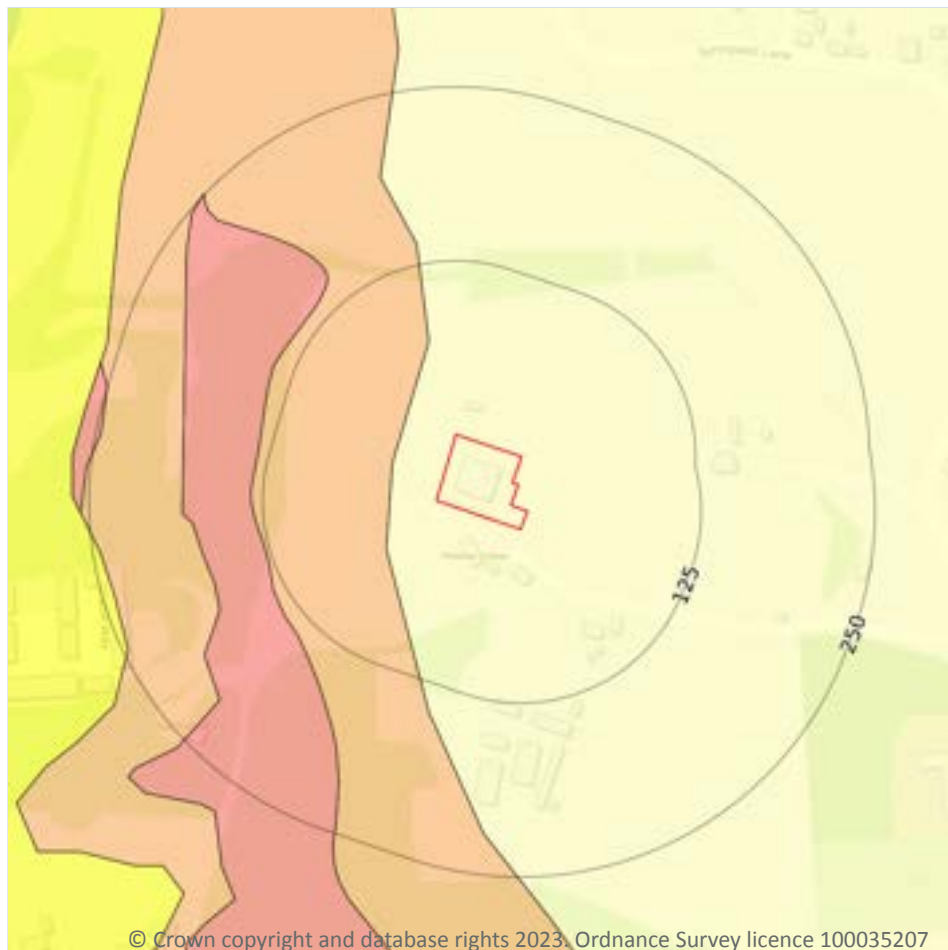
Features are displayed on the Natural ground subsidence - Landslides map on **page 114**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



- 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

2

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 115**

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.

Location	Hazard rating	Details
34m W	Low	Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



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

18.1 Natural cavities

Records within 500m

2

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 117**

ID	Location	Details	Source
B	220m W	Type: Solution Pipe x 3 Superficial Geology: Worked Ground Bedrock Geology: Chalk Group	Simple Bibliography: C.N. Edmonds (Personal Correspondence) Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely

ID	Location	Details	Source
F	303m SW	Type: Solution Pipe x 6 Superficial Geology: Worked Ground Bedrock Geology: Chalk Group	Simple Bibliography: C.N. Edmonds (Personal Correspondence) Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m	6
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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 117**

ID	Location	Details	Description
A	160m W	Name: One Tree Hill Gravel Pit Address: Harefield, NORTHWOOD, Greater London 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
E	288m W	Name: Filocol Works Address: Harefield, NORTHWOOD, Middlesex Commodity: Chalk 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
H	343m NW	Name: Springwell Gravel Pits Address: Harefield, NORTHWOOD, Greater London 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

ID	Location	Details	Description
I	423m N	Name: Springwell Gravel Pits Address: Harefield, NORTHWOOD, Middlesex 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
I	428m N	Name: Springwell Gravel Pits Address: Harefield, NORTHWOOD, Middlesex 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
I	450m N	Name: Springwell Lane Sand Pits Address: Harefield, NORTHWOOD, Greater London Commodity: Sand 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	27
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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 117**

ID	Location	Land Use	Year of mapping	Mapping scale
2	17m SW	Refuse Heap	1882	1:10560
A	110m W	Unspecified Disused Pit	1974	1:10000
B	113m W	Gravel Pit	1938	1:10560
A	115m W	Gravel Pit	1938	1:10560
A	115m W	Gravel Pit	1935	1:10560
B	115m W	Unspecified Quarry	1935	1:10560
B	115m W	Gravel Pit	1960	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	116m W	Gravel Pit	1970	1:10560
A	118m W	Gravel Pit	1938	1:10560
B	122m W	Gravel Pits	1913	1:10560
A	133m W	Unspecified Disused Pit	1987	1:10000
C	161m NW	Unspecified Heap	1938	1:10560
C	161m NW	Unspecified Ground Workings	1970	1:10560
C	163m NW	Unspecified Pit	1938	1:10560
C	163m NW	Unspecified Pit	1960	1:10560
C	163m NW	Unspecified Pit	1935	1:10560
C	164m NW	Unspecified Pit	1913	1:10560
C	165m NW	Unspecified Pit	1938	1:10560
C	165m NW	Unspecified Pit	1938	1:10560
D	177m SW	Chalk Pit	1974	1:10000
B	179m W	Chalk Pit	1987	1:10000
E	183m W	Unspecified Disused Pit	1974	1:10000
B	187m W	Unspecified Quarry	1899	1:10560
F	246m SW	Unspecified Heap	1960	1:10560
F	247m SW	Unspecified Ground Workings	1938	1:10560
F	248m SW	Unspecified Pit	1938	1:10560
F	248m SW	Unspecified Pit	1938	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

0

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

This is data is sourced from Ordnance Survey/Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

2

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 117**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
B	115m W	Filocol Works	Chalk	Surface mineral working	Valid	Not available
5	366m N	Springwell Gravel Pits	Sand and gravel	Surface mineral working	Valid	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

6

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 117**

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Chalk	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
3	128m W	Not available	Chalk	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
4	264m NW	Not available	Chalk	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered



ID	Location	Name	Commodity	Class	Likelihood
6	367m E	Not available	Chalk	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
8	705m NE	Not available	Chalk	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	783m S	Not available	Chalk	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

1

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 117**

ID	Location	Mine Address	Mineral	Data source	Publisher
-	962m NE	Harefield	Water	-	Chelsea Speleological Society

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	0
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Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0
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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
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.13 Clay mining

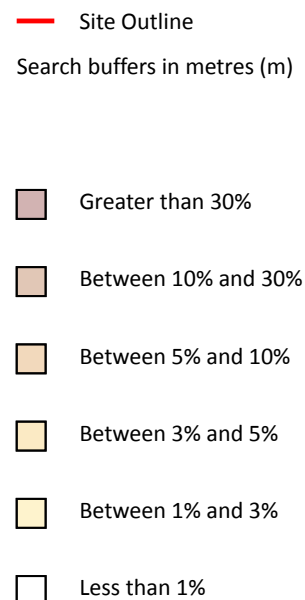
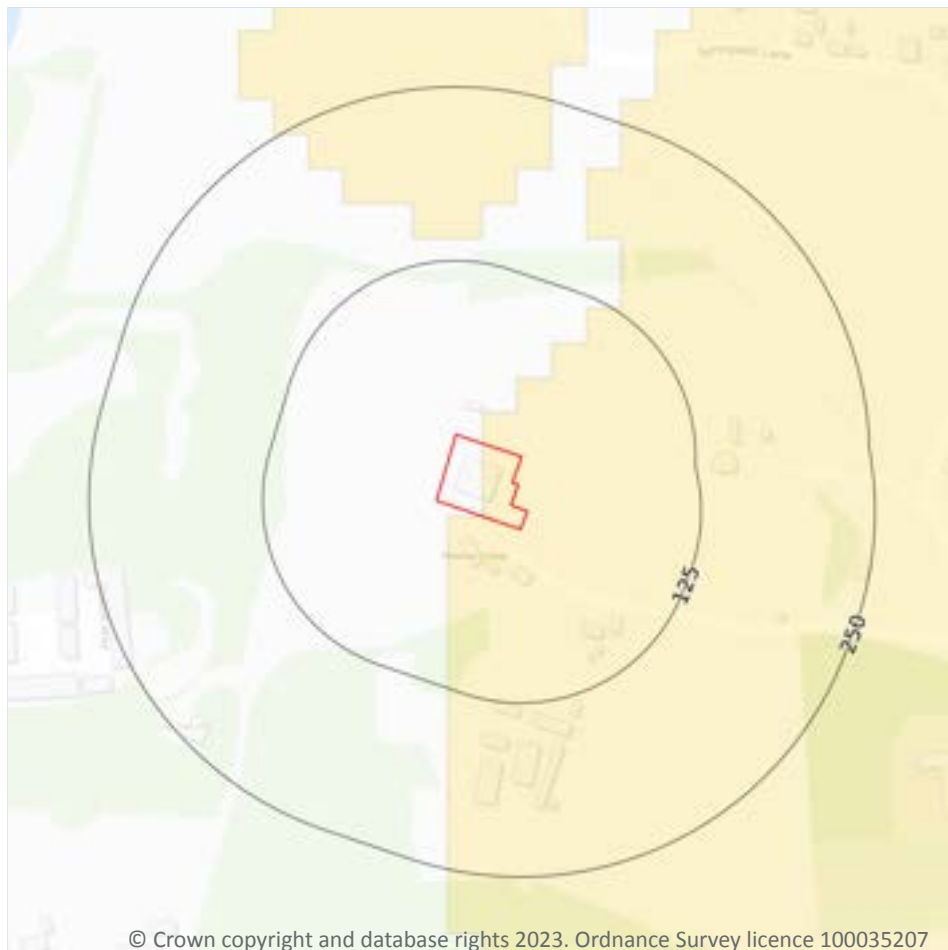
Records on site	0
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Generalised areas that may be affected by kaolin and ball clay extraction.

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



19 Radon



19.1 Radon

Records on site

2

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 124**

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



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

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



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	No data	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	No data	No data
On site	No data	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	No data	No data

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

6

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).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	12	2.1	74	51	0.5	48	27	16	7
On site	13	2.3	78	54	0.5	49	30	17	7
On site	14	2.5	72	49	0.5	52	31	20	6
On site	14	2.5	81	56	0.5	55	34	22	7
41m S	12	2.1	70	48	0.5	49	27	16	6
48m S	13	2.3	70	48	0.5	52	30	20	6

This data is sourced from the British Geological Survey.



20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



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

21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

10

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

Features are displayed on the Railway infrastructure and projects map on **page 128**

Location	Land Use	Year of mapping	Mapping scale
126m W	Railway Sidings	1935	10560
128m W	Railway Sidings	1938	10560
129m W	Tramway Sidings	1934	2500
130m W	Railway Sidings	1938	10560
133m W	Railway Sidings	1938	10560
221m W	Tramway Sidings	1935	10560
223m W	Tramway Sidings	1938	10560
224m W	Tramway Sidings	1938	10560
224m W	Tramway Sidings	1938	10560
225m W	Tramway Sidings	1934	2500

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:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1865

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1865
Revised 1865
Edition N/A
Copyright N/A
Levelled N/A

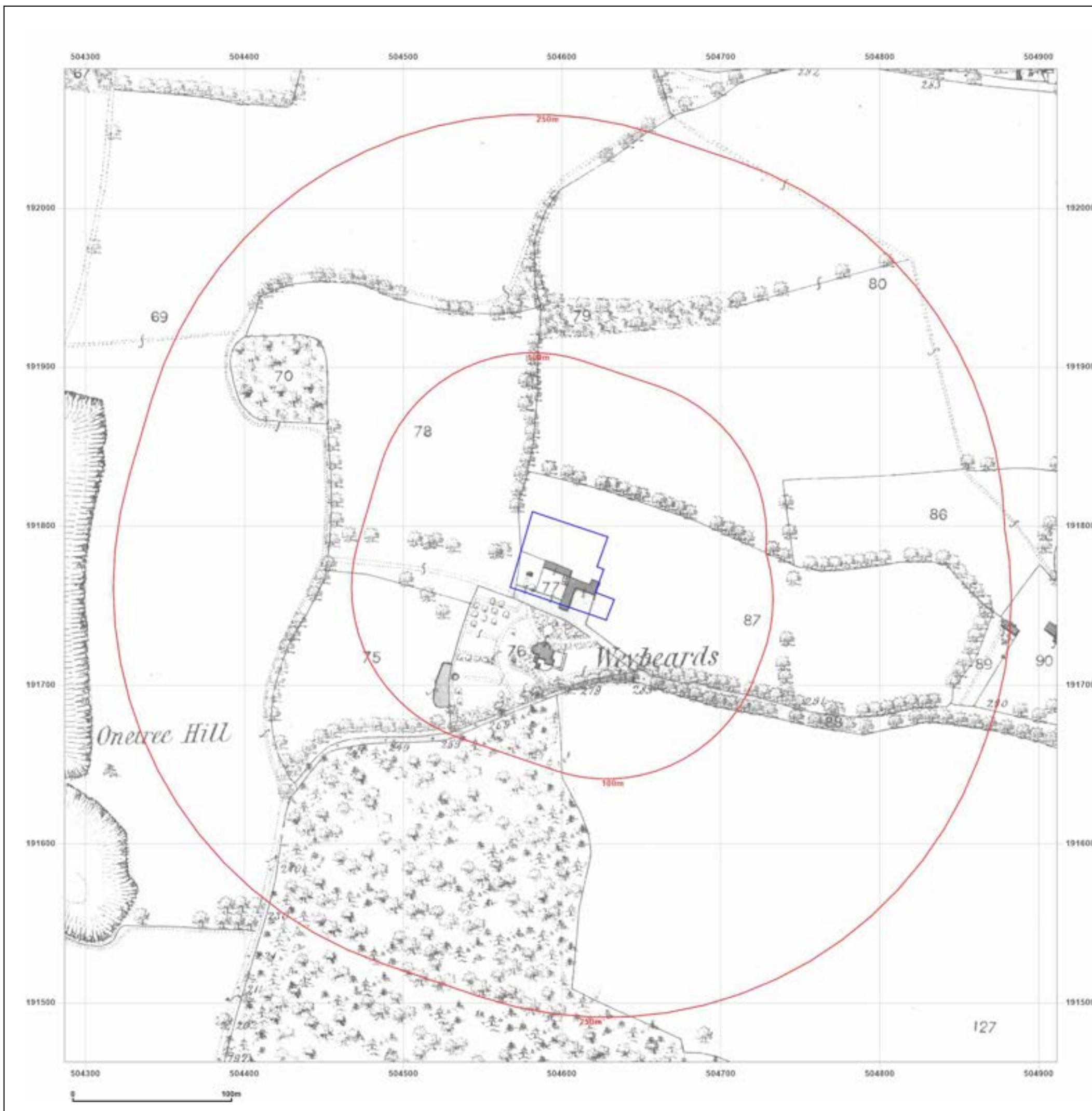


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Production date: 19 April 2023

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



Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1872

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1872
Revised 1872
Edition N/A
Copyright N/A
Levelled N/A

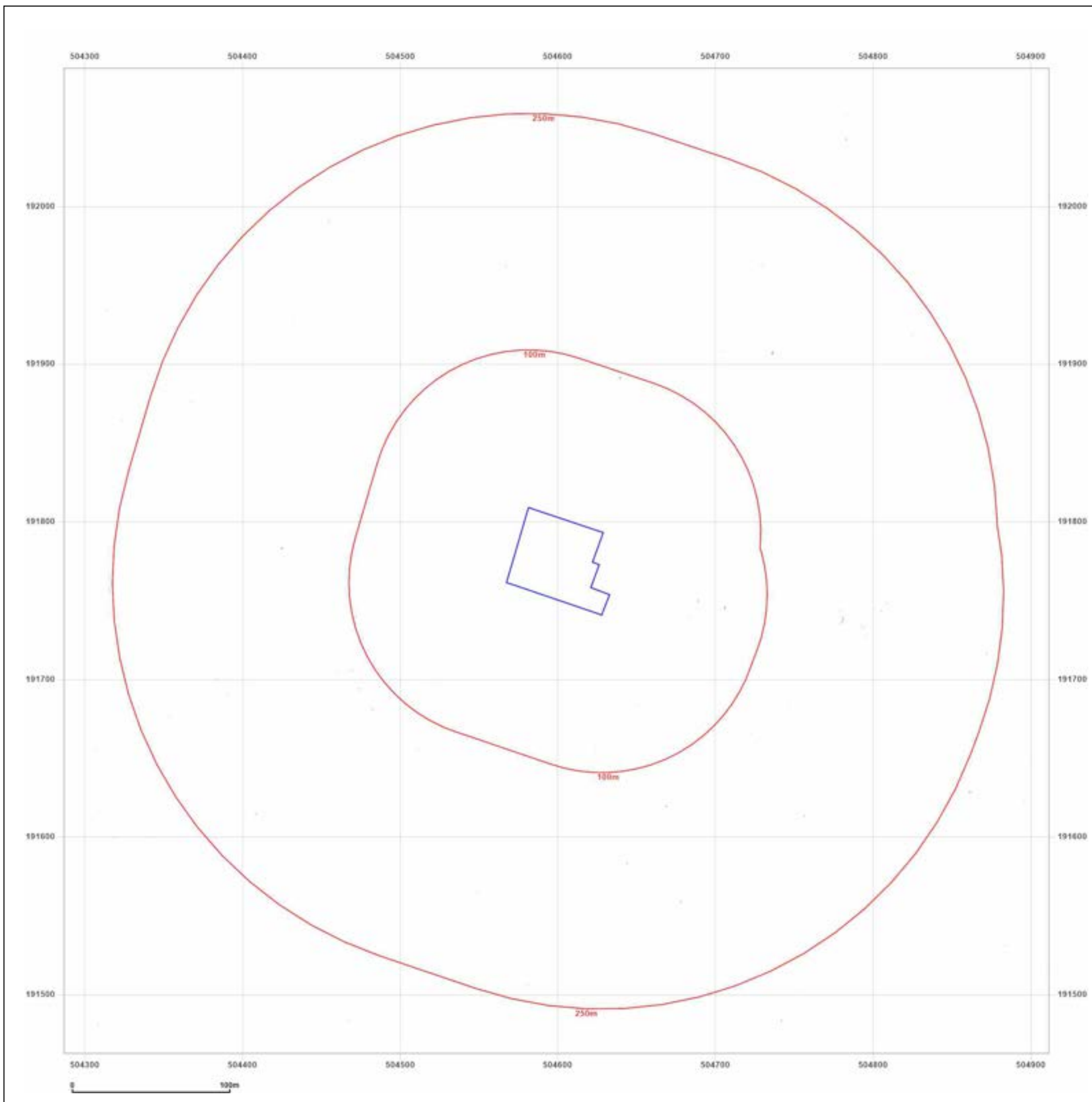


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Production date: 19 April 2023

Map legend available at:
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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1896

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1896
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A

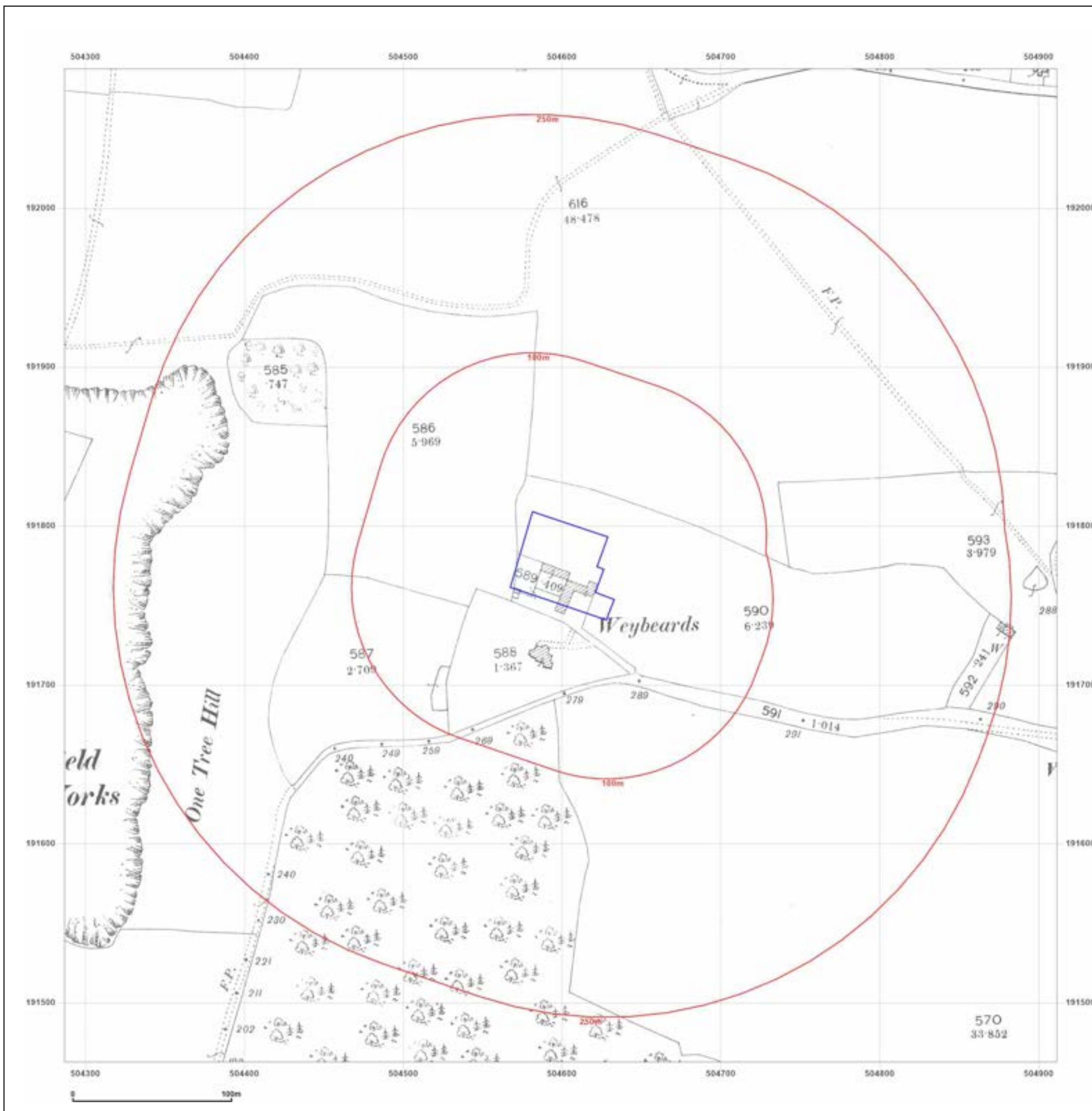


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1898

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1898
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

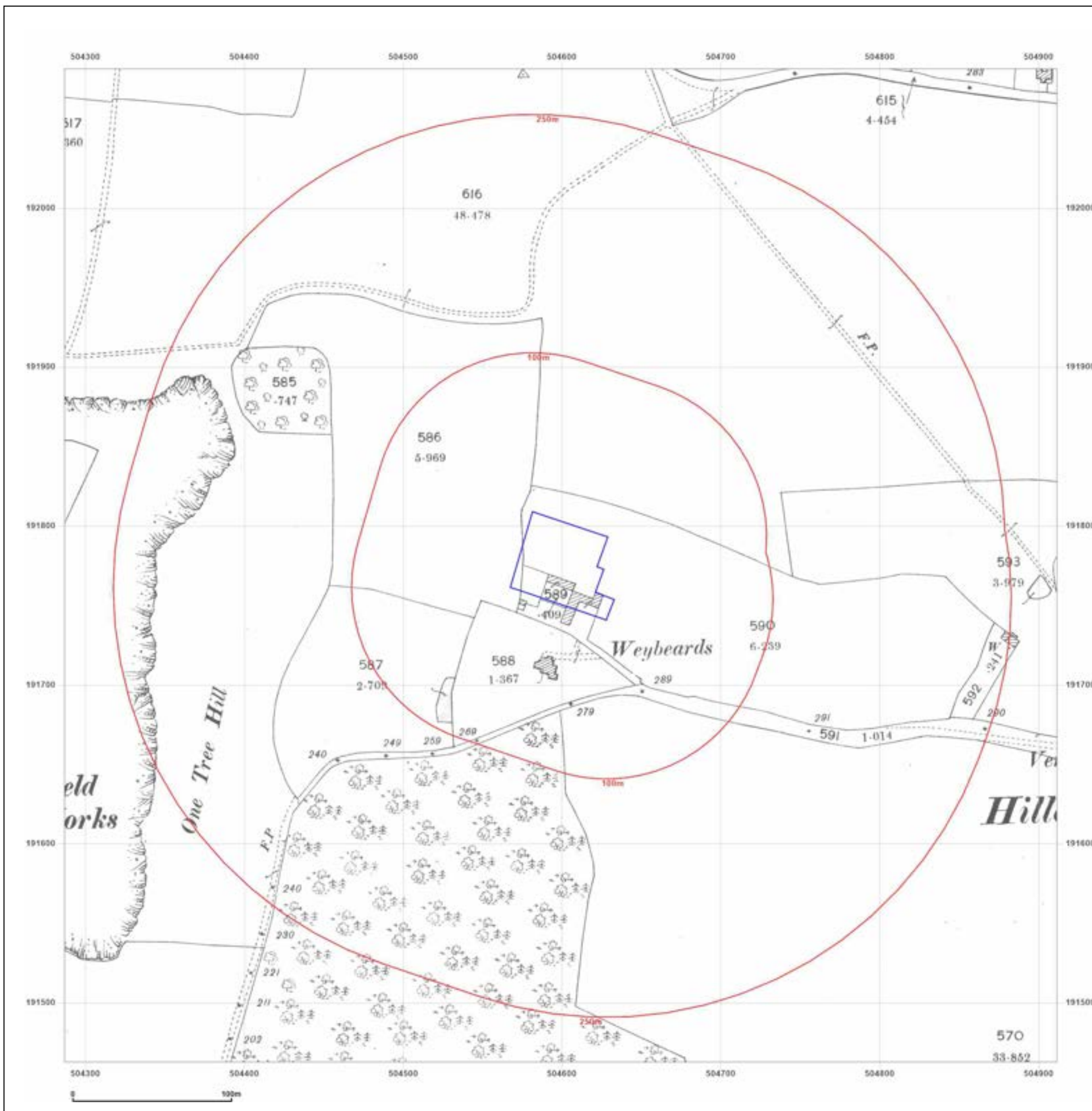


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1914

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1914
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

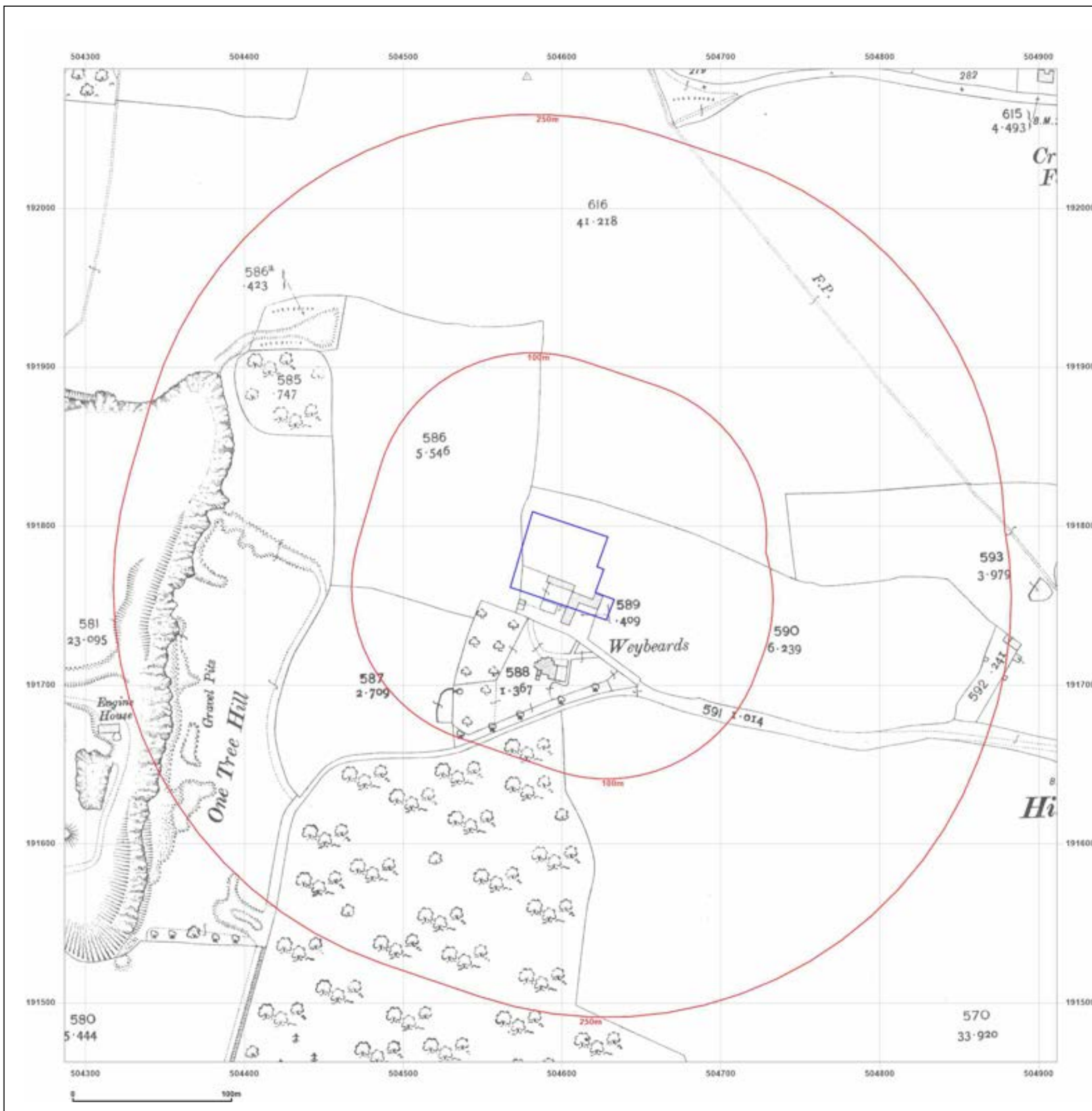


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1934

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1934
Revised 1934
Edition N/A
Copyright N/A
Levelled N/A

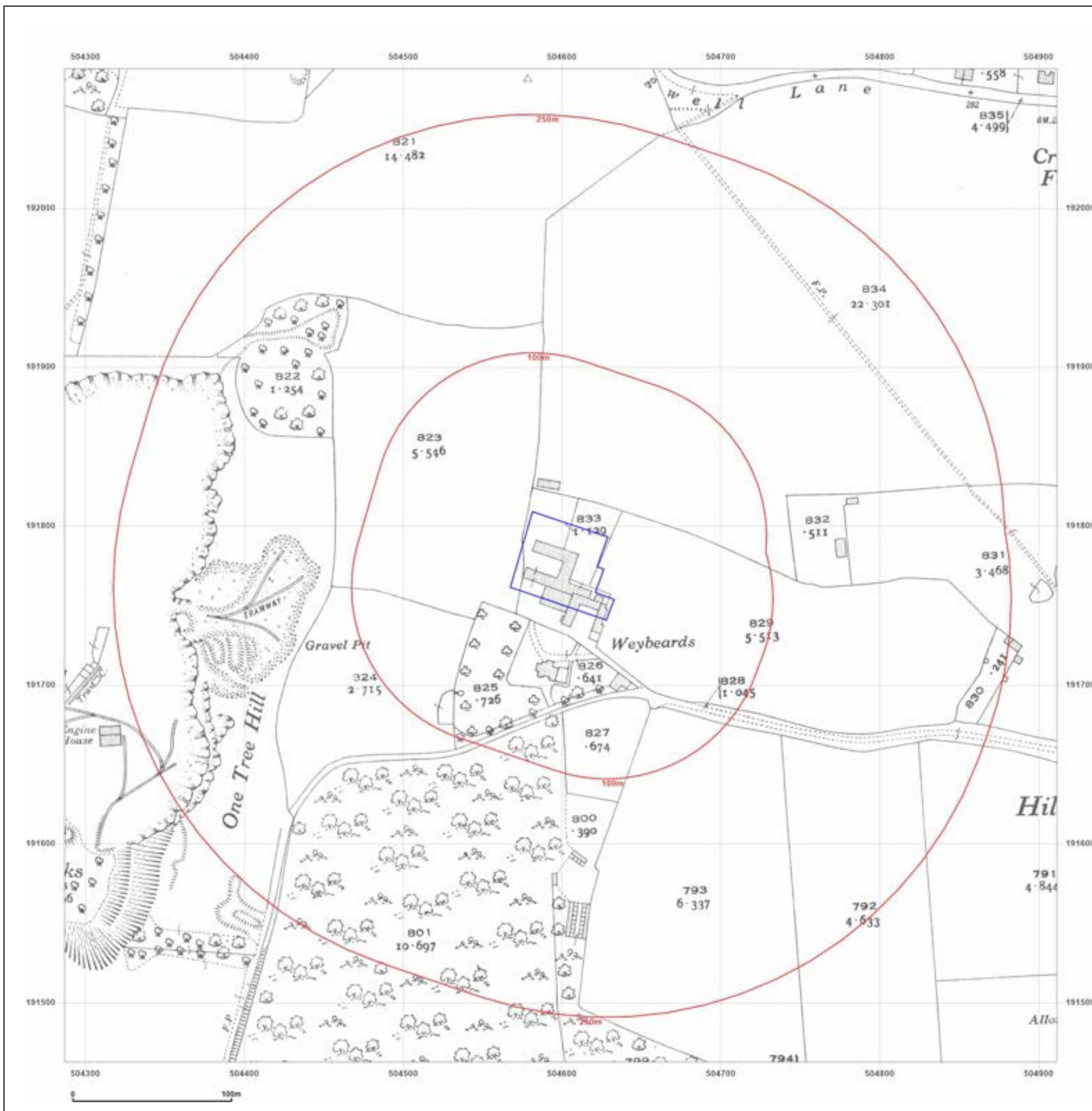


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: National Grid

Map date: 1960-1962

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1960
Revised 1960
Edition N/A
Copyright 1962
Levelled 1957

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1957

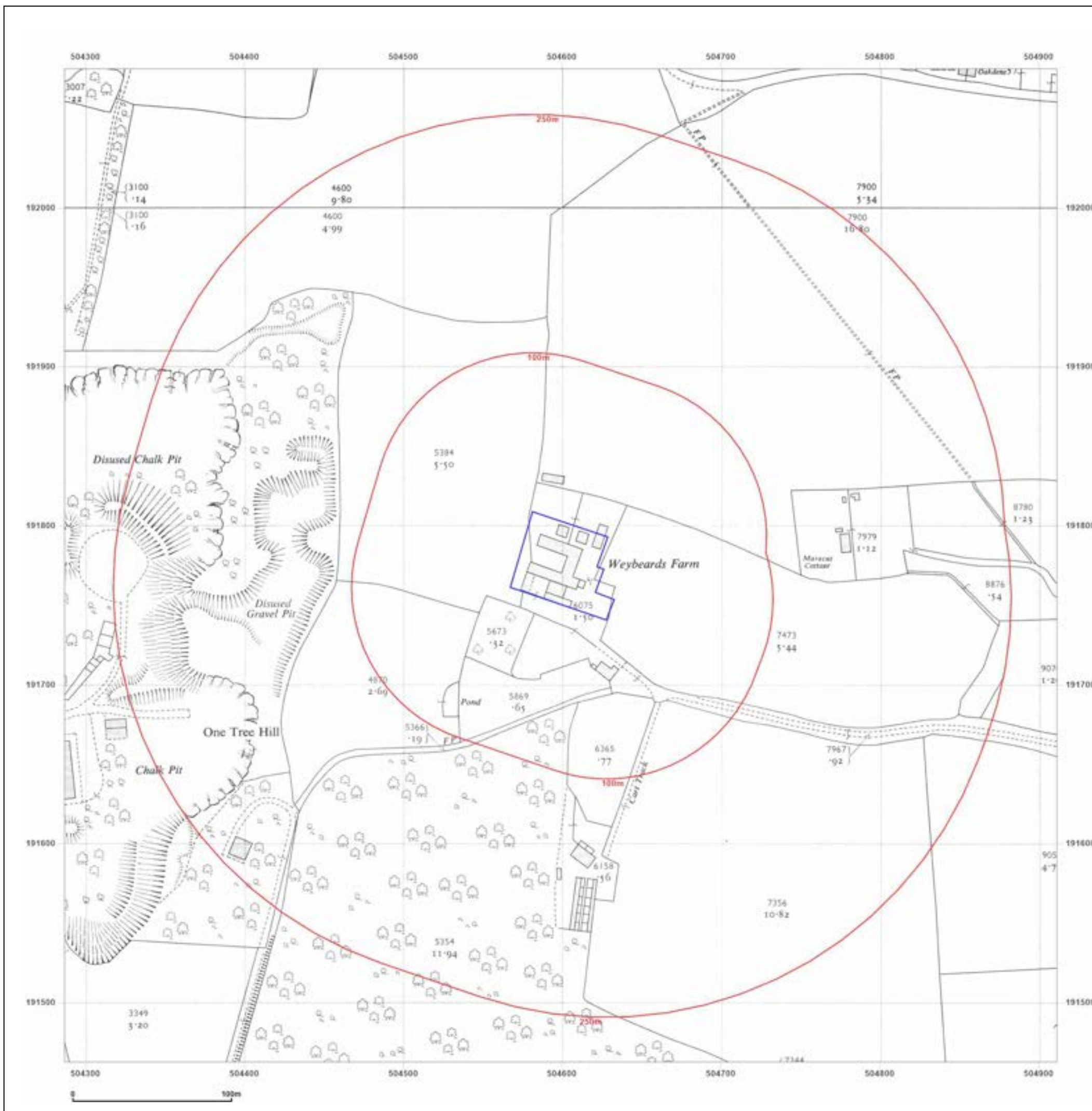


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: National Grid

Map date: 1960-1962

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1957

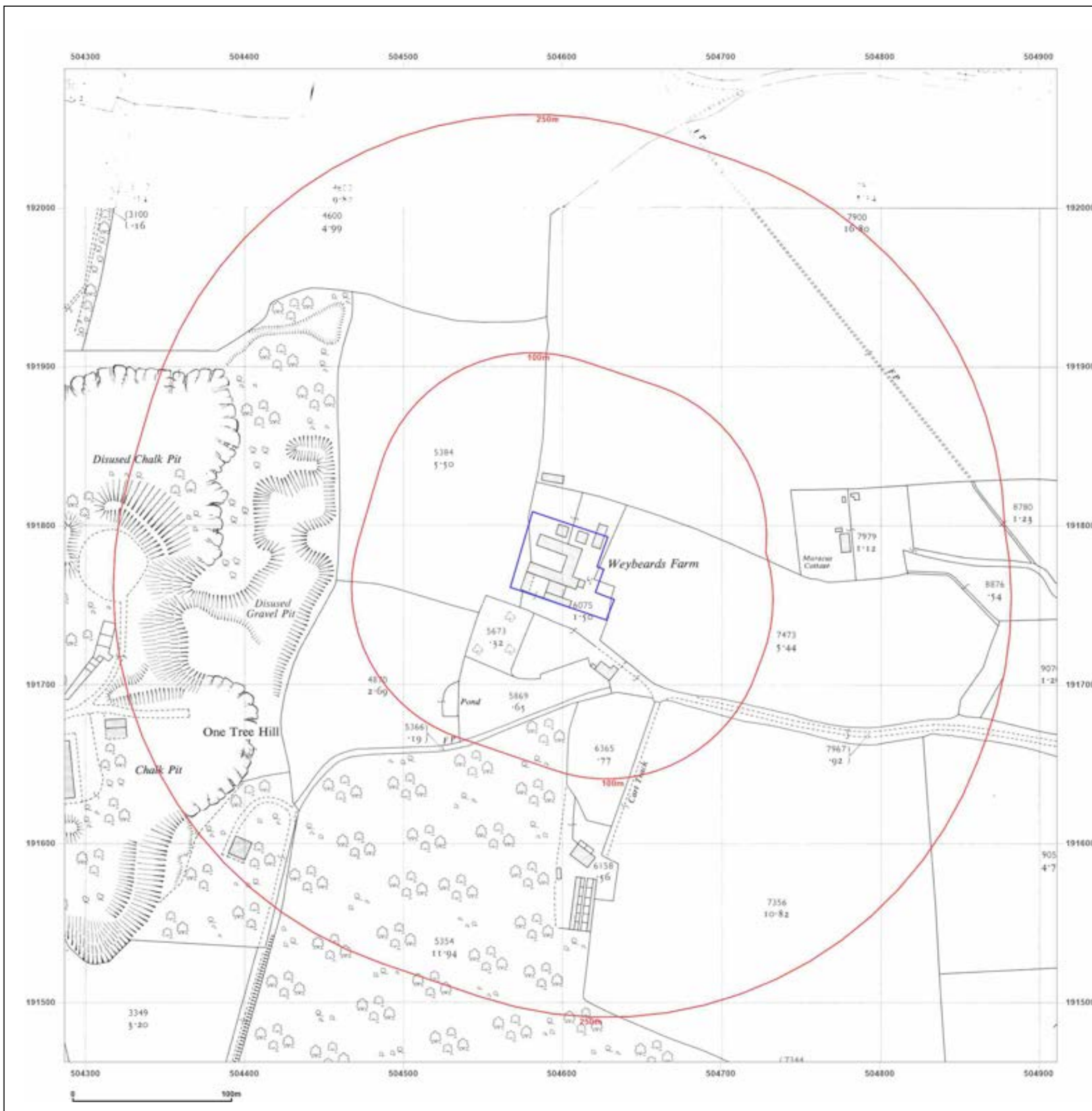


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: National Grid

Map date: 1974

Scale: 1:2,500

Printed at: 1:2,500



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

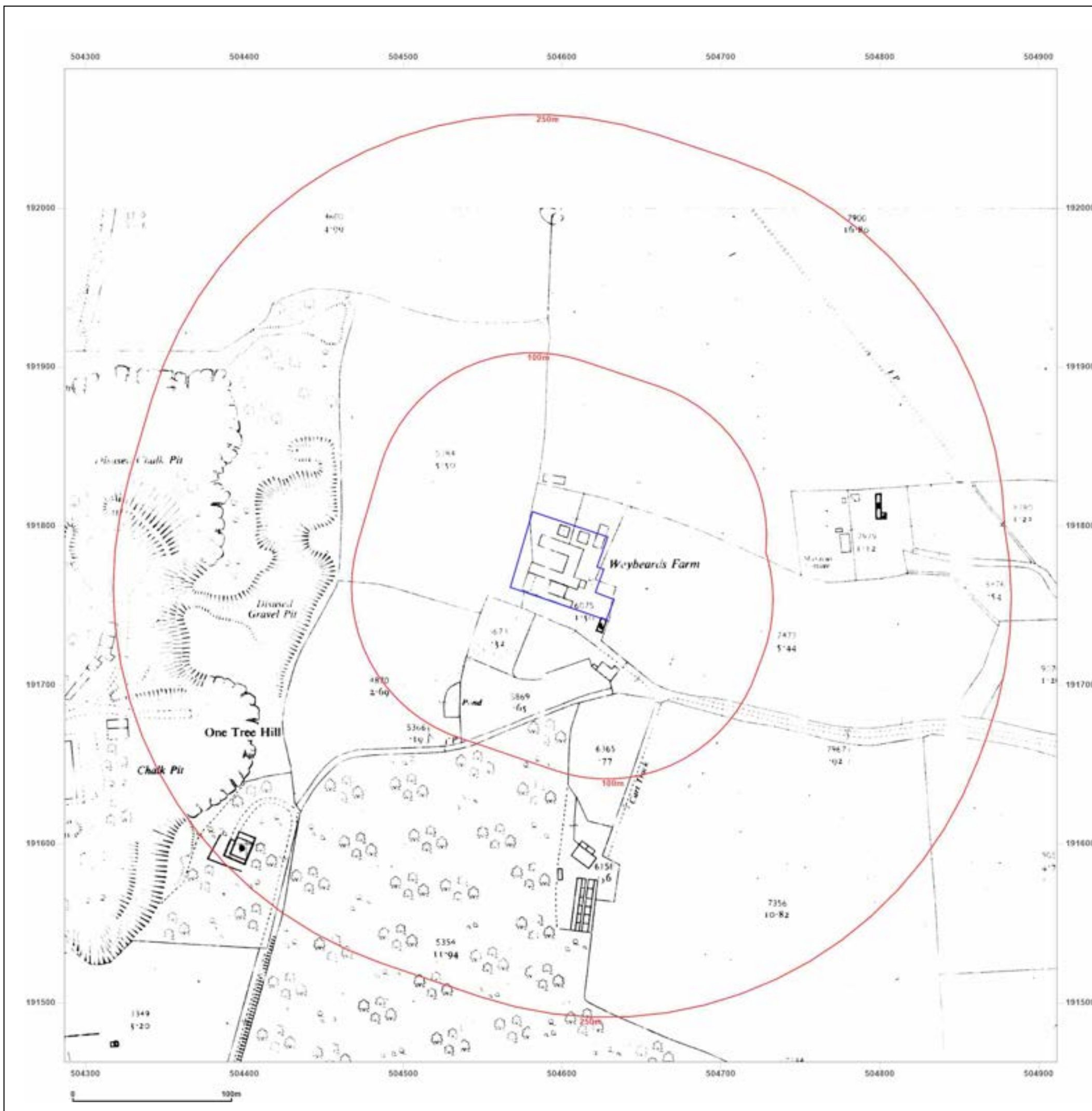


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: National Grid

Map date: 1989-1990

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1957
Revised 1988
Edition N/A
Copyright 1989
Levelled 1957

Surveyed 1956
Revised 1990
Edition N/A
Copyright 1990
Levelled 1956

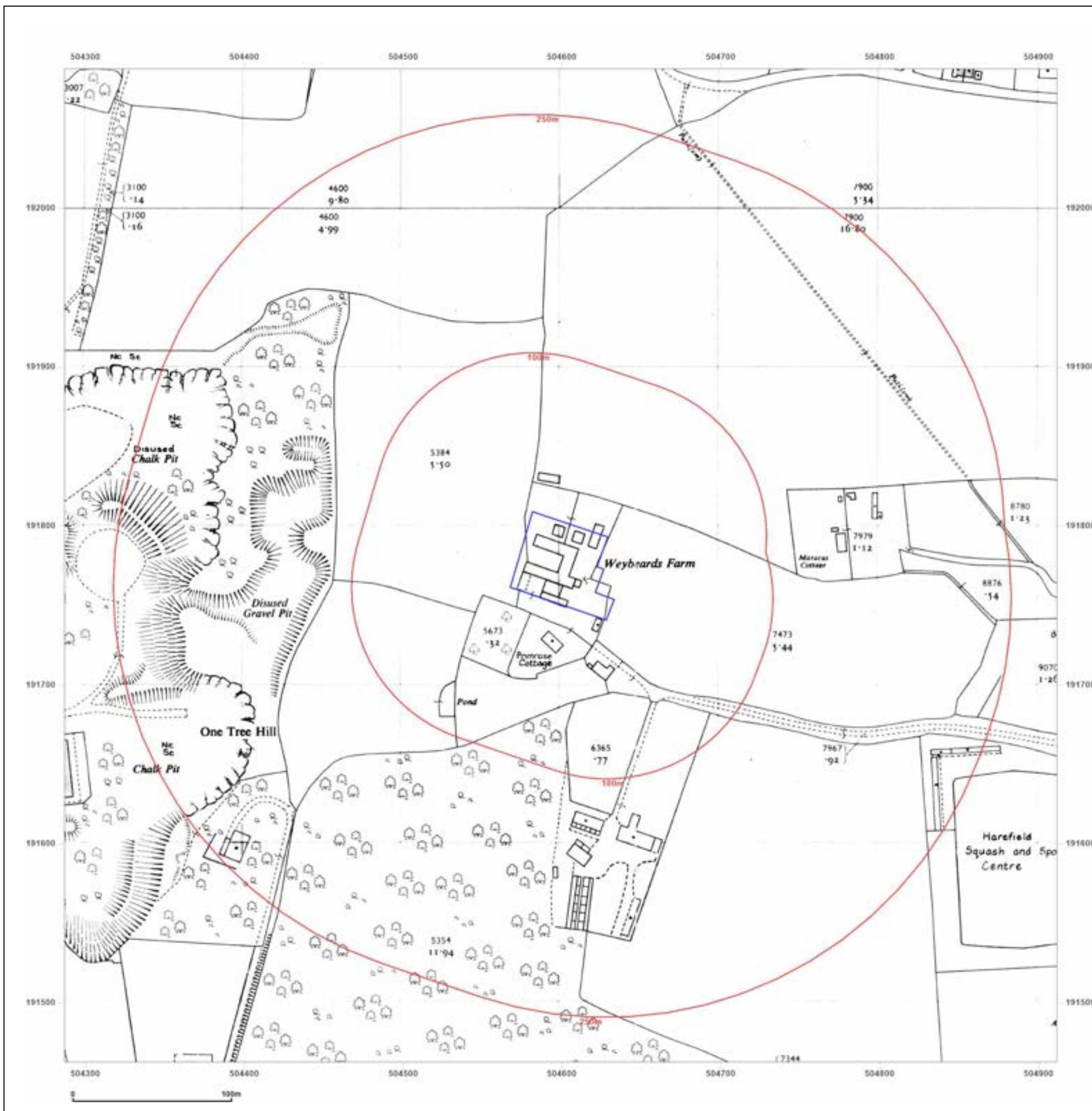


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Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: National Grid

Map date: 1992

Scale: 1:2,500

Printed at: 1:2,500



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

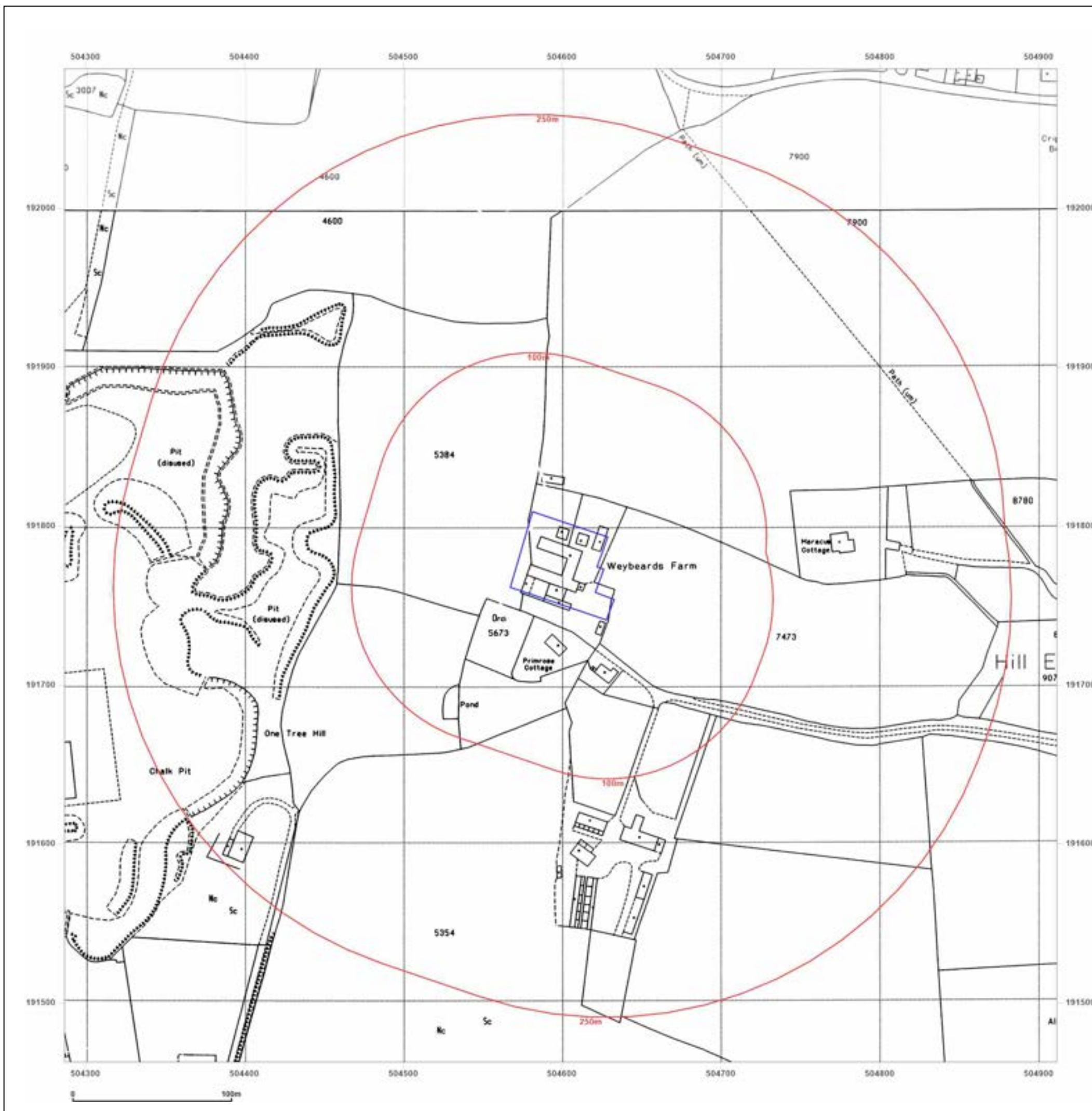


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Site Details:

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ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: National Grid

Map date: 1992

Scale: 1:2,500

Printed at: 1:2,500



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

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

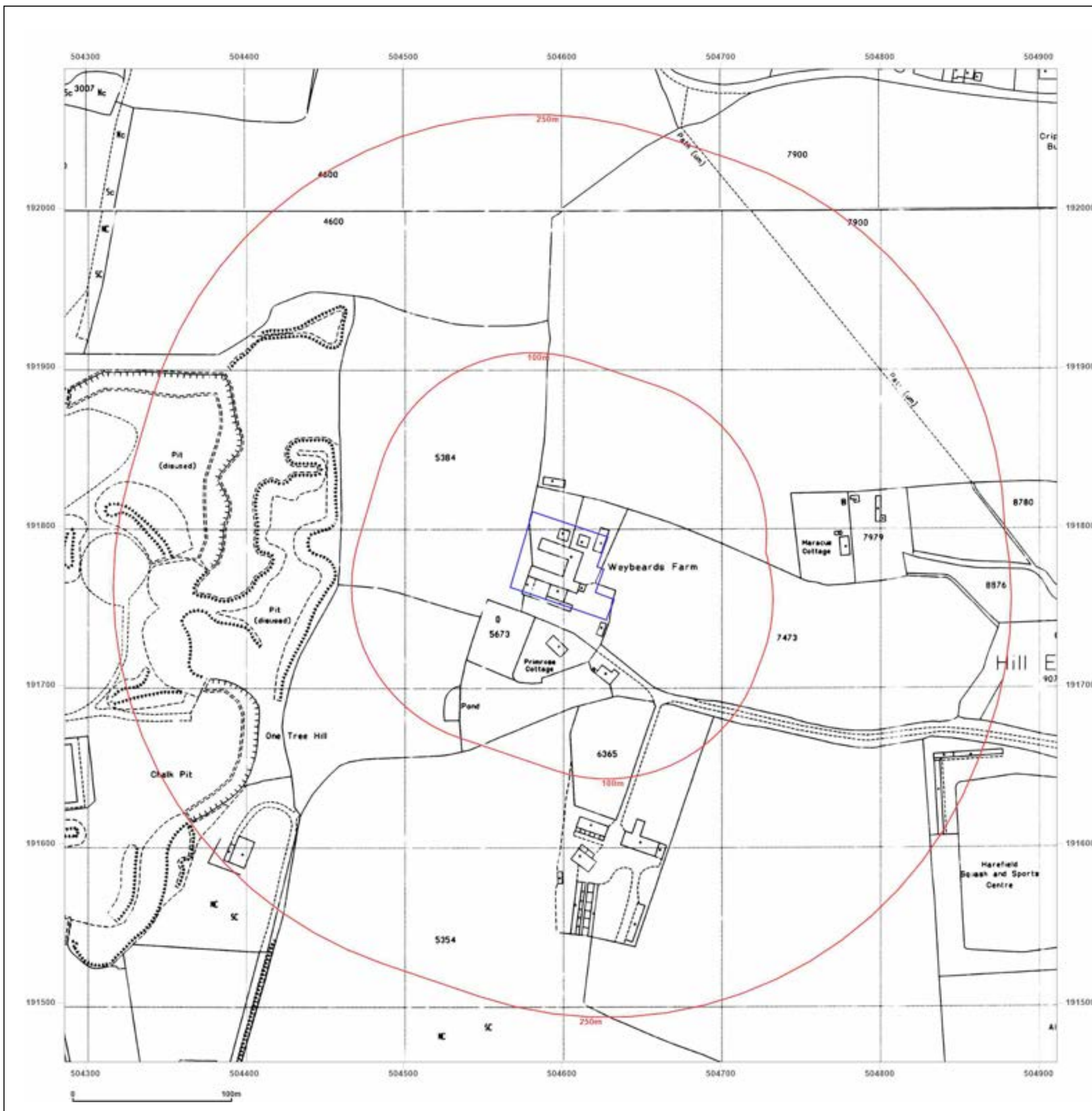


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: National Grid

Map date: 1992

Scale: 1:2,500

Printed at: 1:2,500



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

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

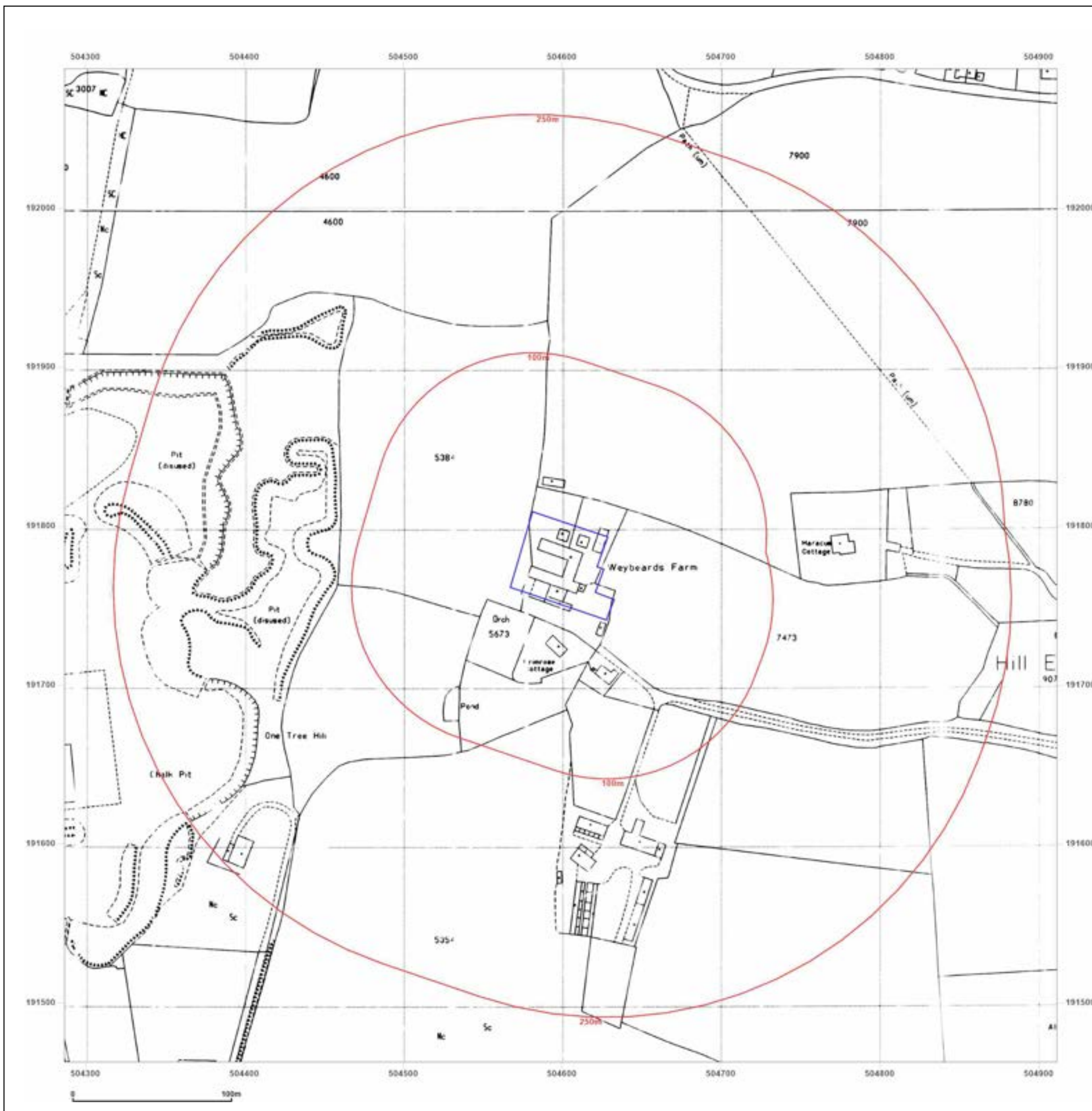


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Site Details:

WEYBEARDS FARM, HILL END
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Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

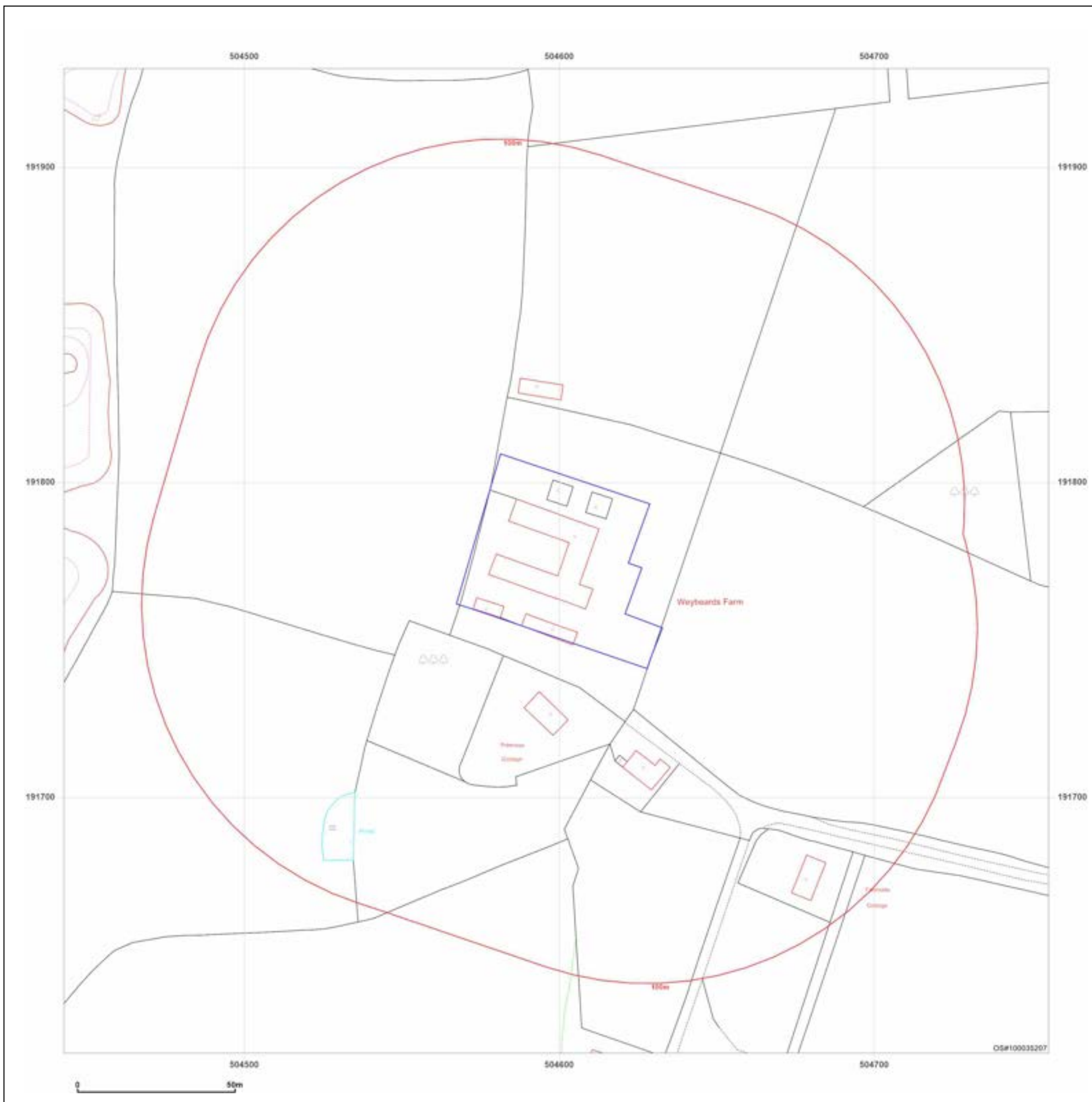


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1865

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1865
Revised 1865
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1865
Revised 1865
Edition 1865
Copyright N/A
Levelled N/A

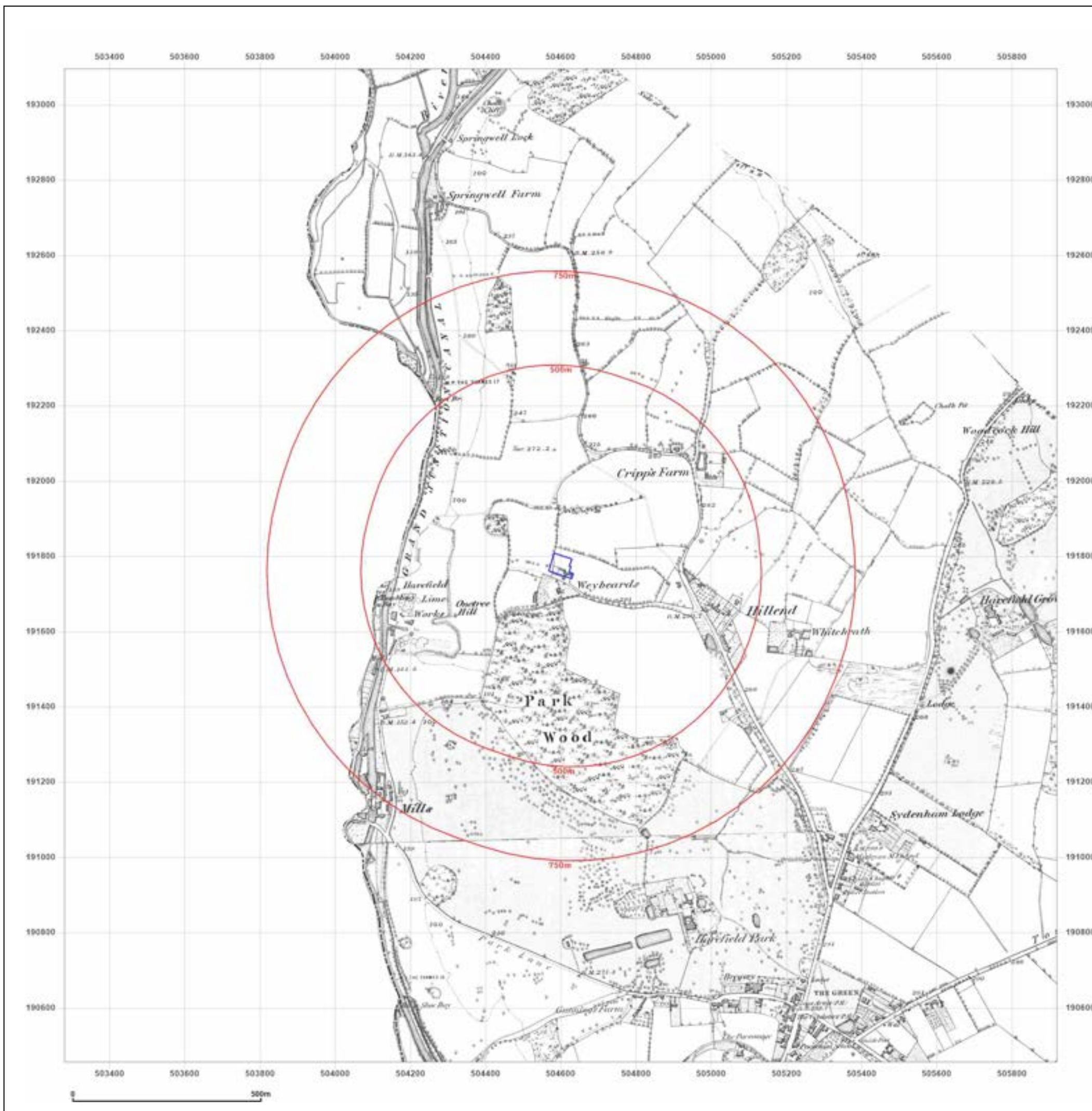


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1868

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1865
Revised N/A
Edition 1868
Copyright N/A
Levelled N/A

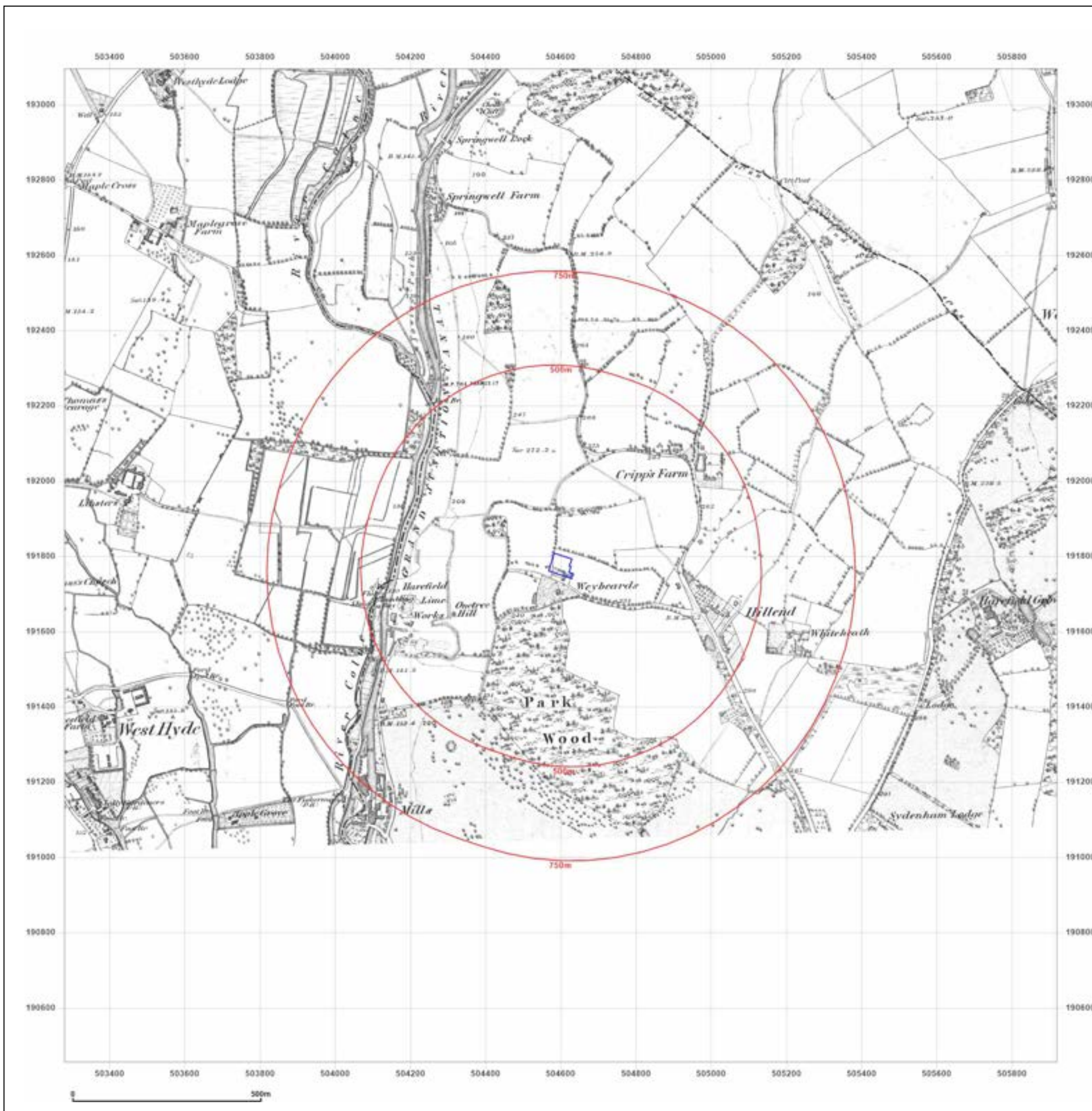


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1883

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised N/A
Edition 1883
Copyright N/A
Levelled N/A

Surveyed 1872
Revised N/A
Edition 1883
Copyright N/A
Levelled N/A

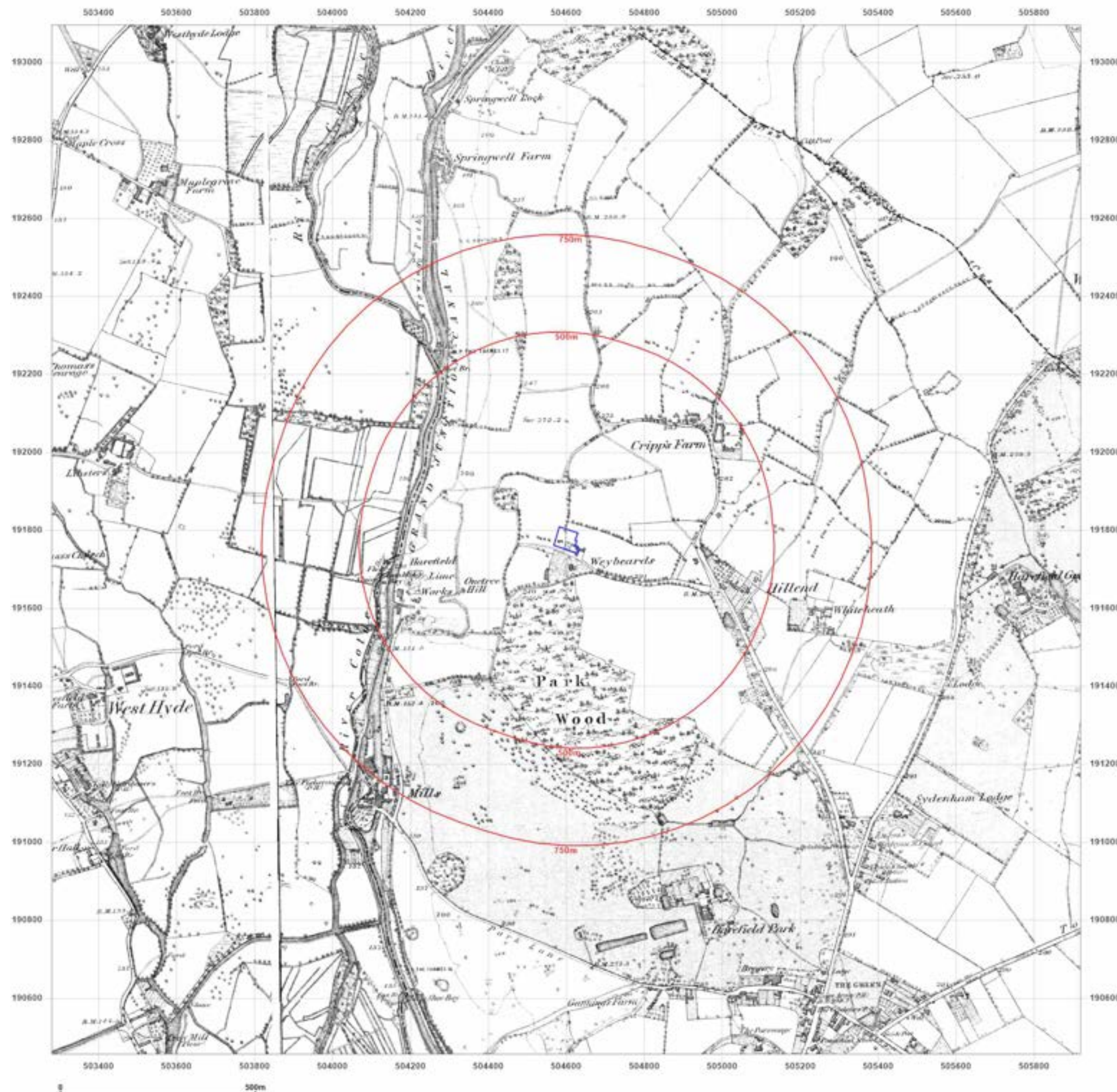


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1895-1897

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1864
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

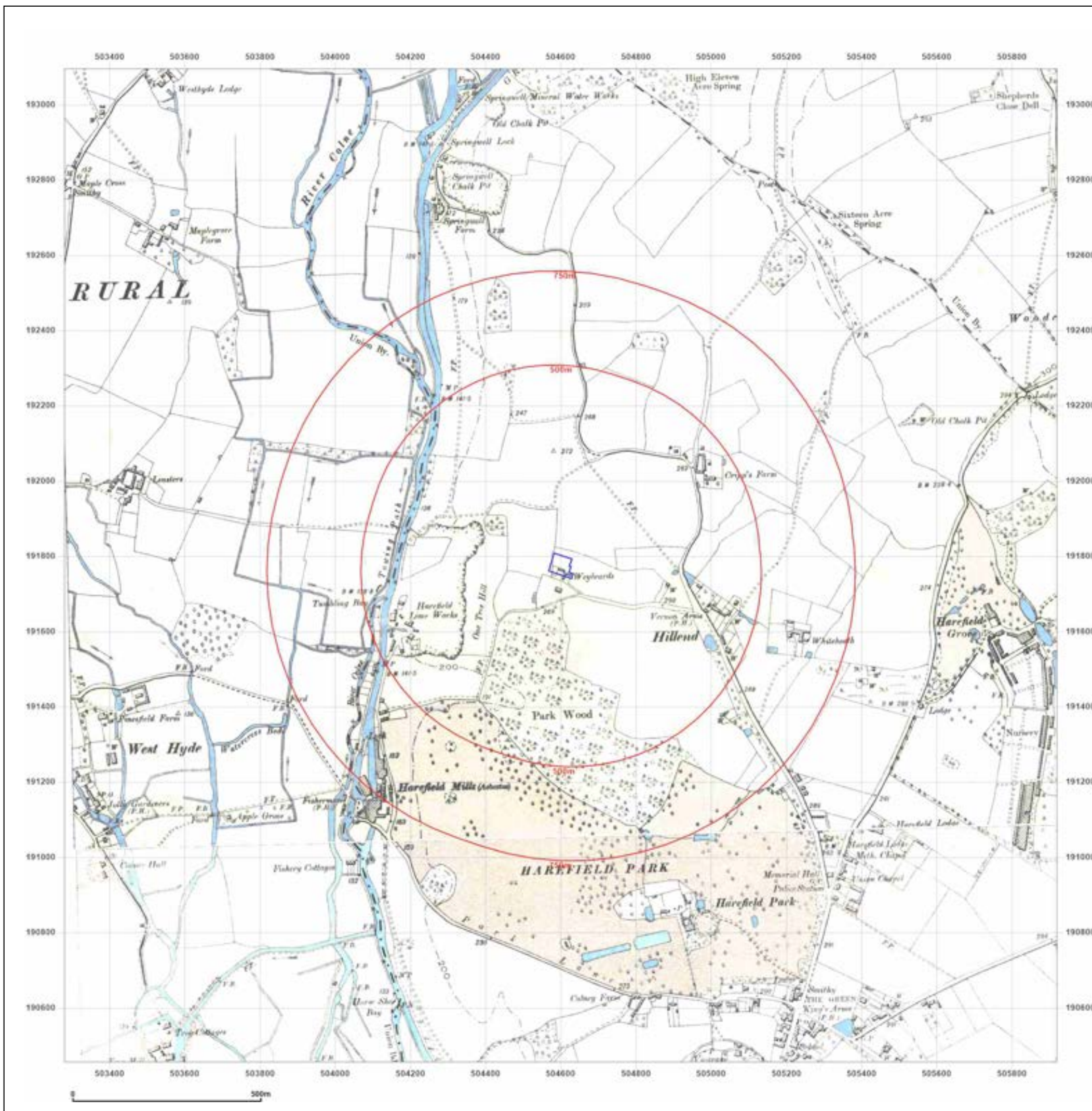


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Map legend available at:
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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1896-1898

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1864
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1879
Revised 1898
Edition N/A
Copyright N/A
Levelled N/A

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

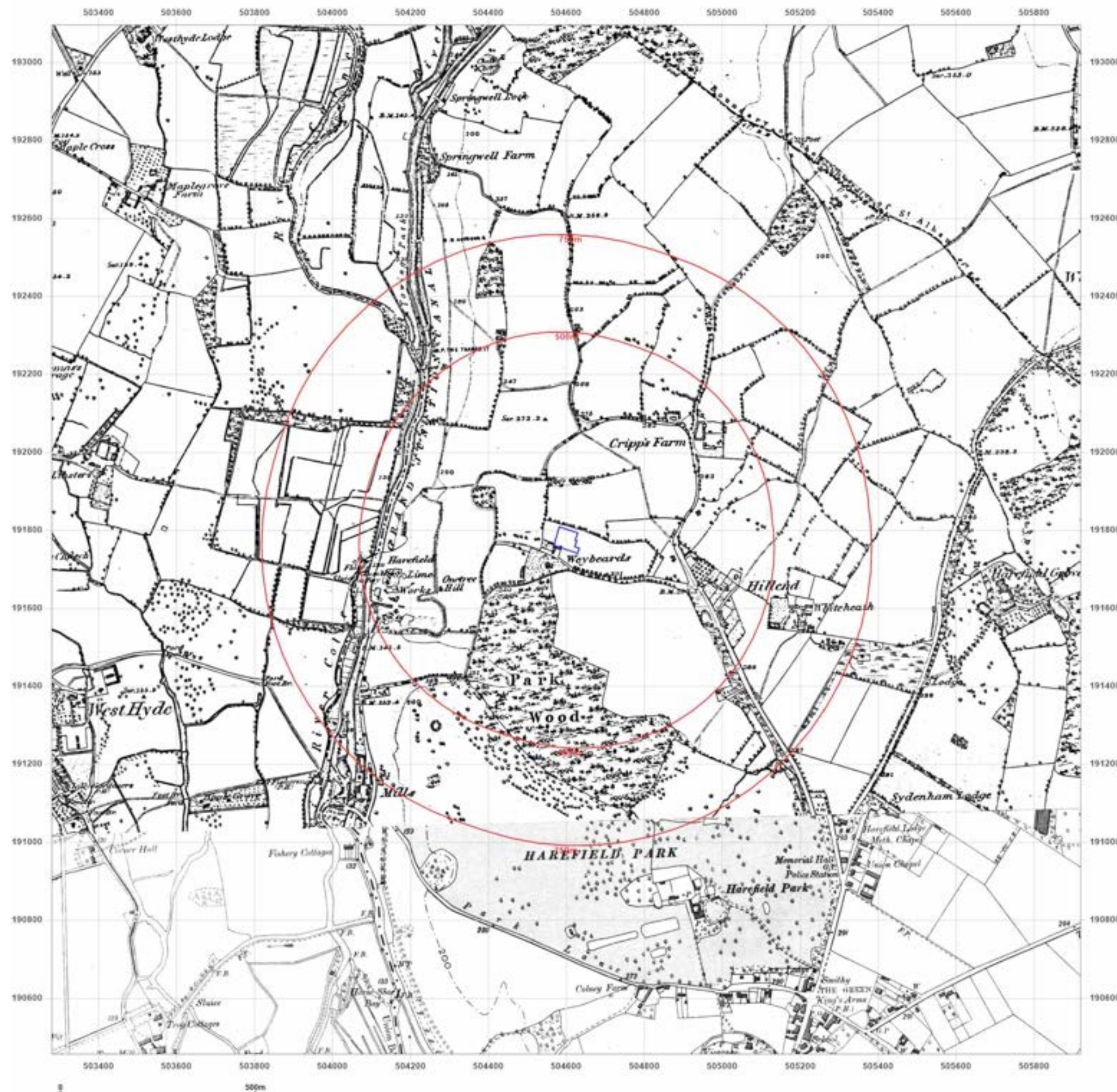


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1895-1899

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1872
Revised 1896
Edition 1899
Copyright N/A
Levelled N/A

Surveyed 1864
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

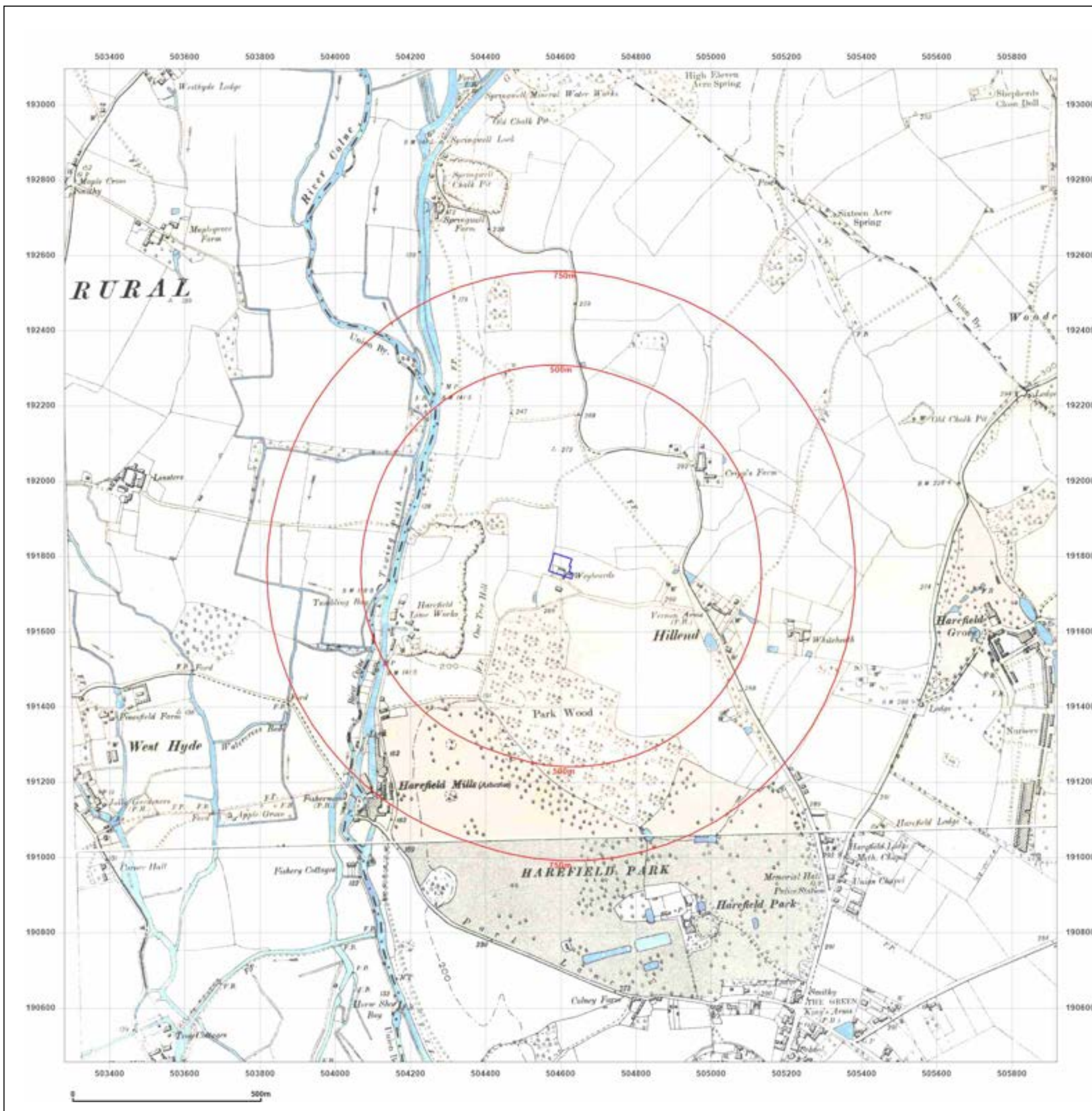


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Map legend available at:
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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1896-1900

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1872
Revised 1896
Edition N/A
Copyright N/A
Levelled N/A

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

Surveyed 1875
Revised 1897
Edition 1899
Copyright N/A
Levelled N/A

Surveyed 1875
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

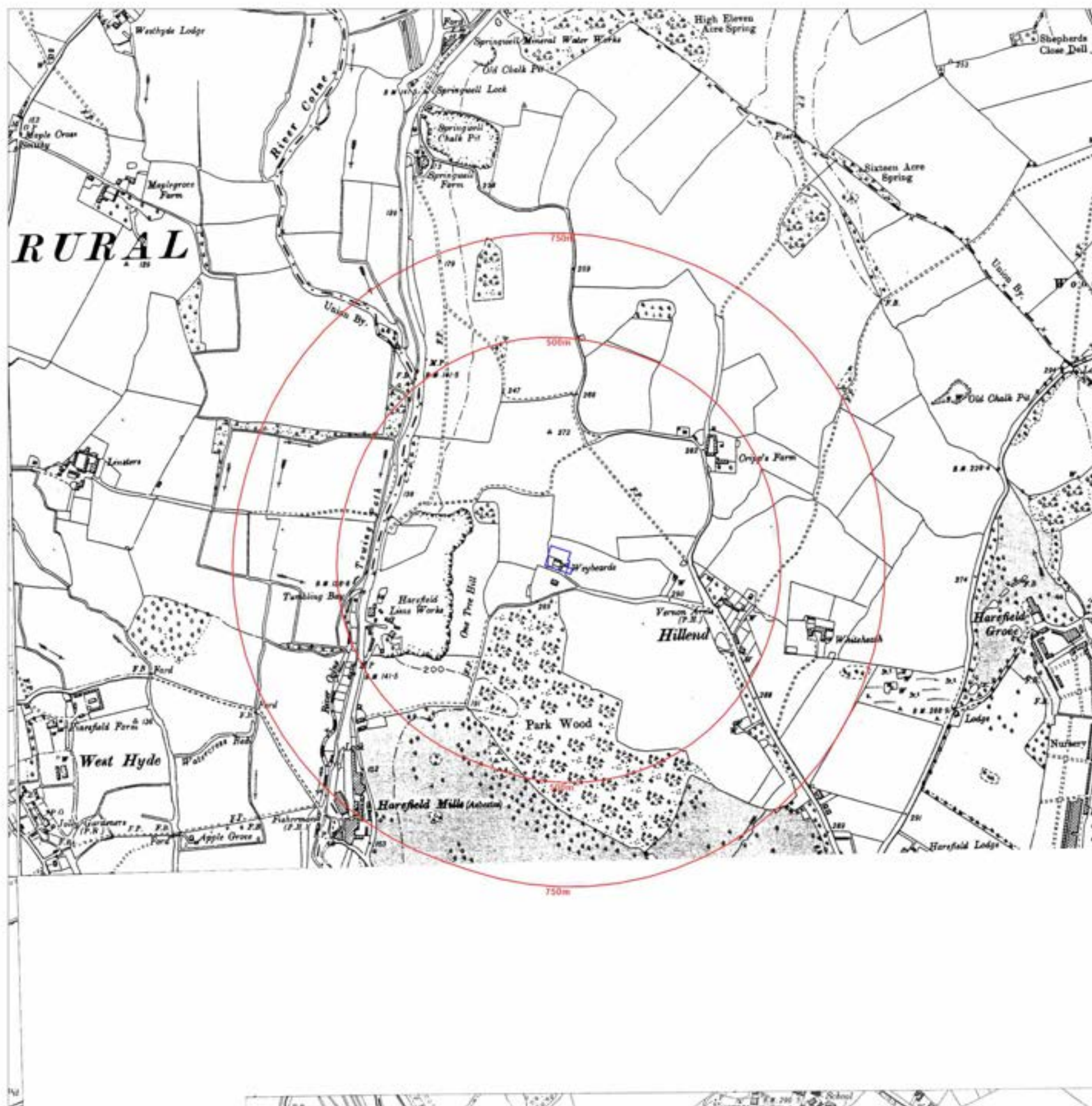


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1934-1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1871
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1871
Revised 1935
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1871
Revised 1934
Edition N/A
Copyright N/A
Levelled N/A

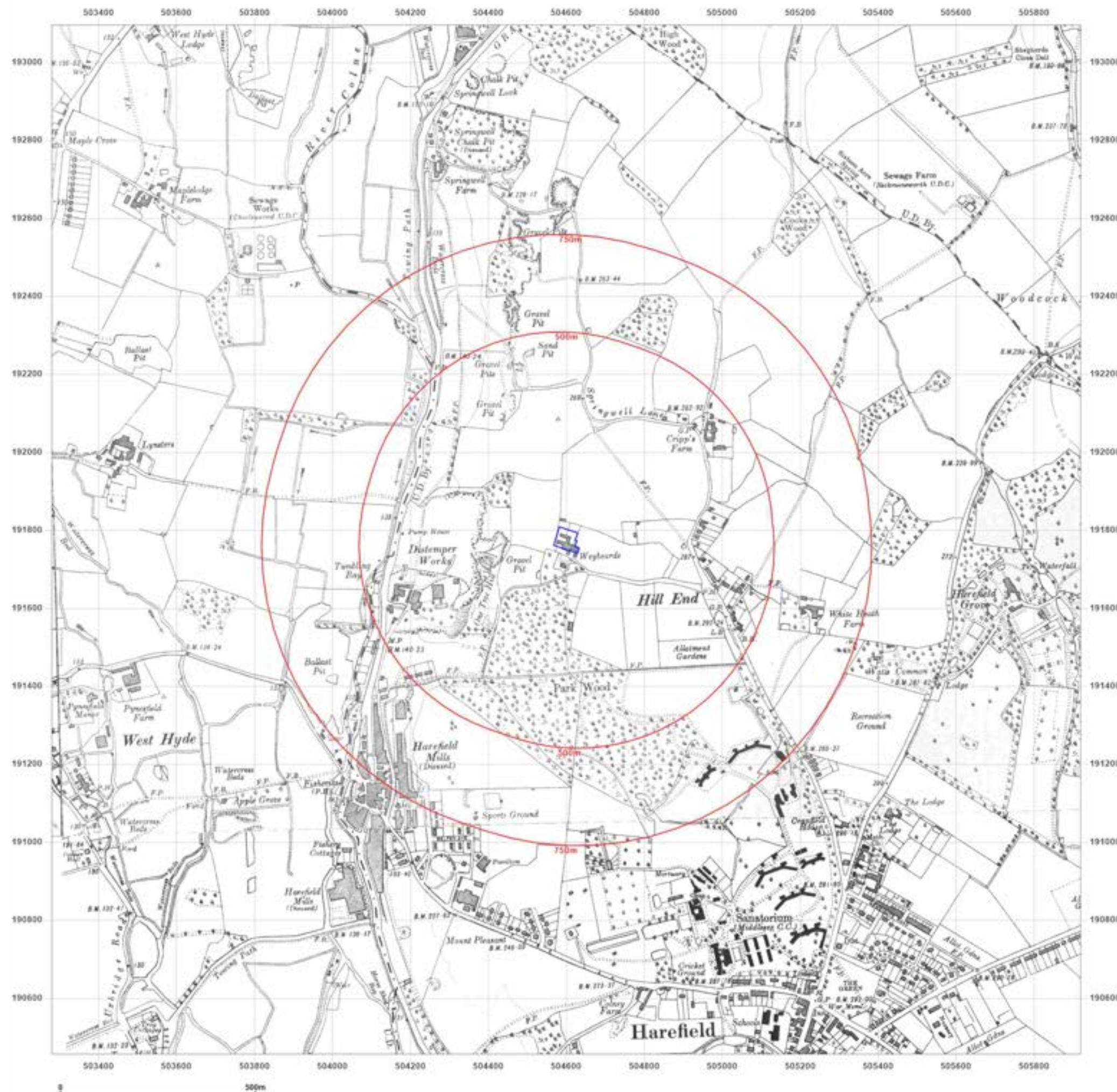


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



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

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

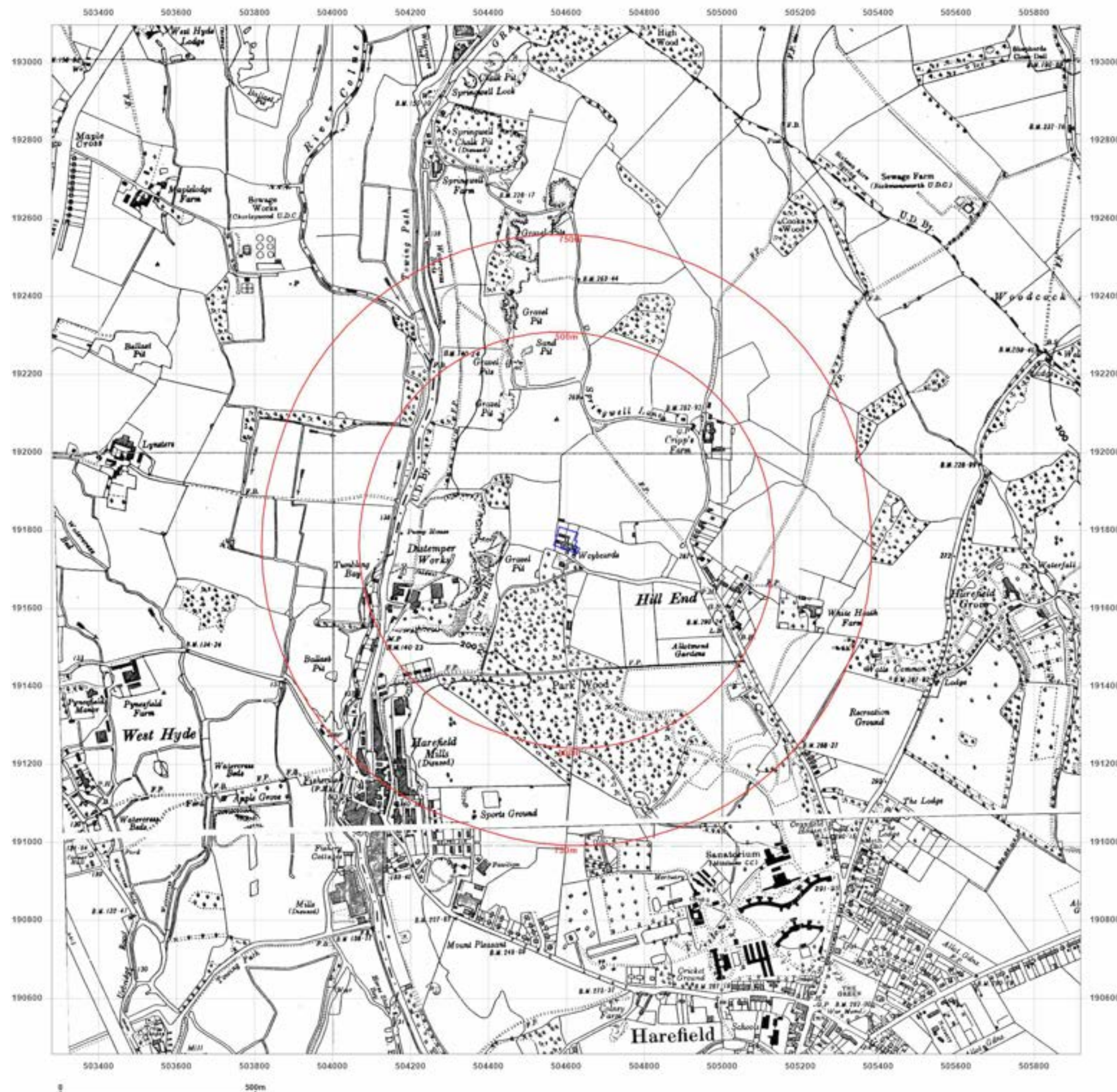


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Site Details:

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ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1871
Revised 1938
Edition 1938
Copyright N/A
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Surveyed 1871
Revised 1938
Edition N/A
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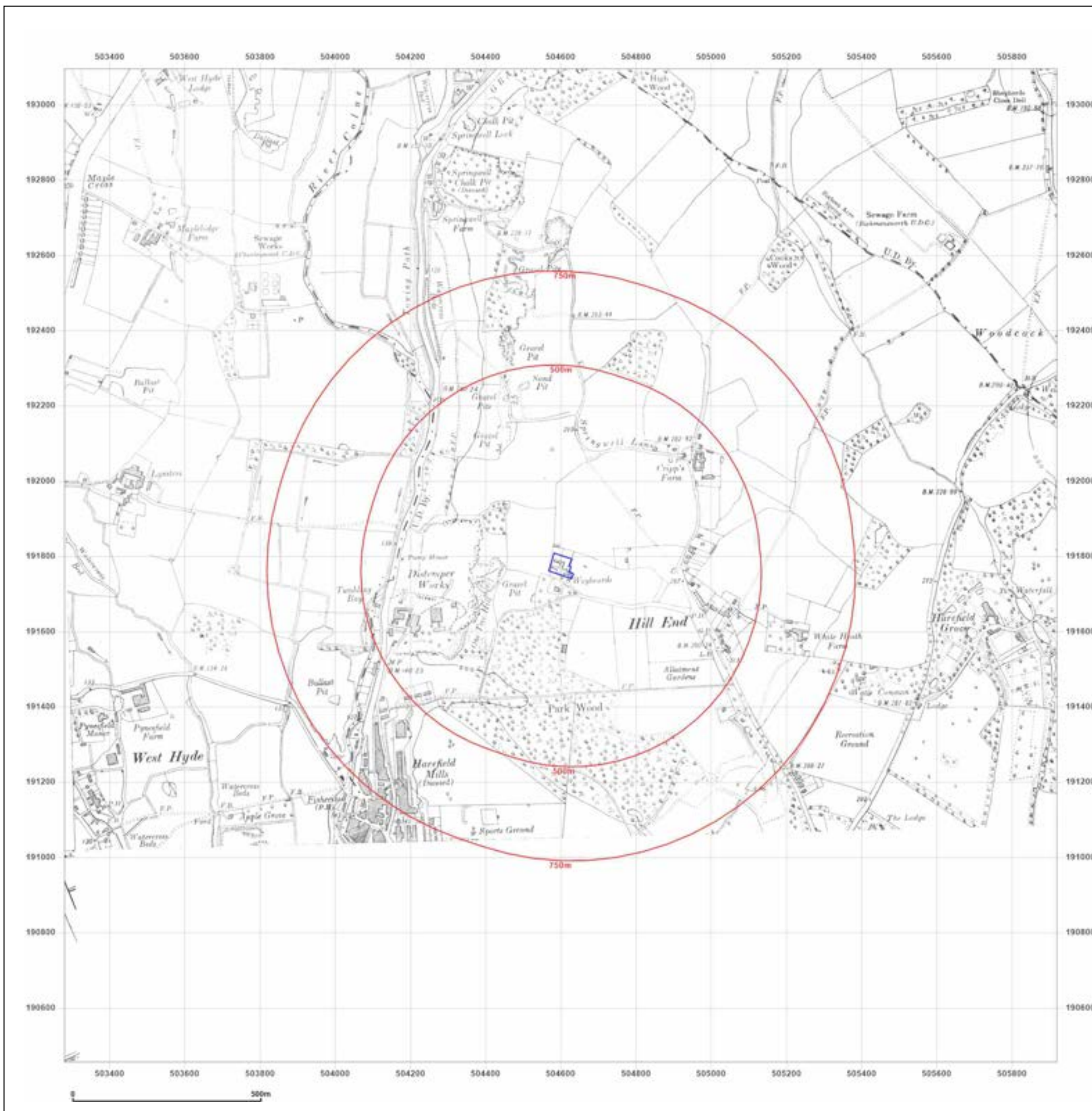


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Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1871
Revised 1938
Edition N/A
Copyright N/A
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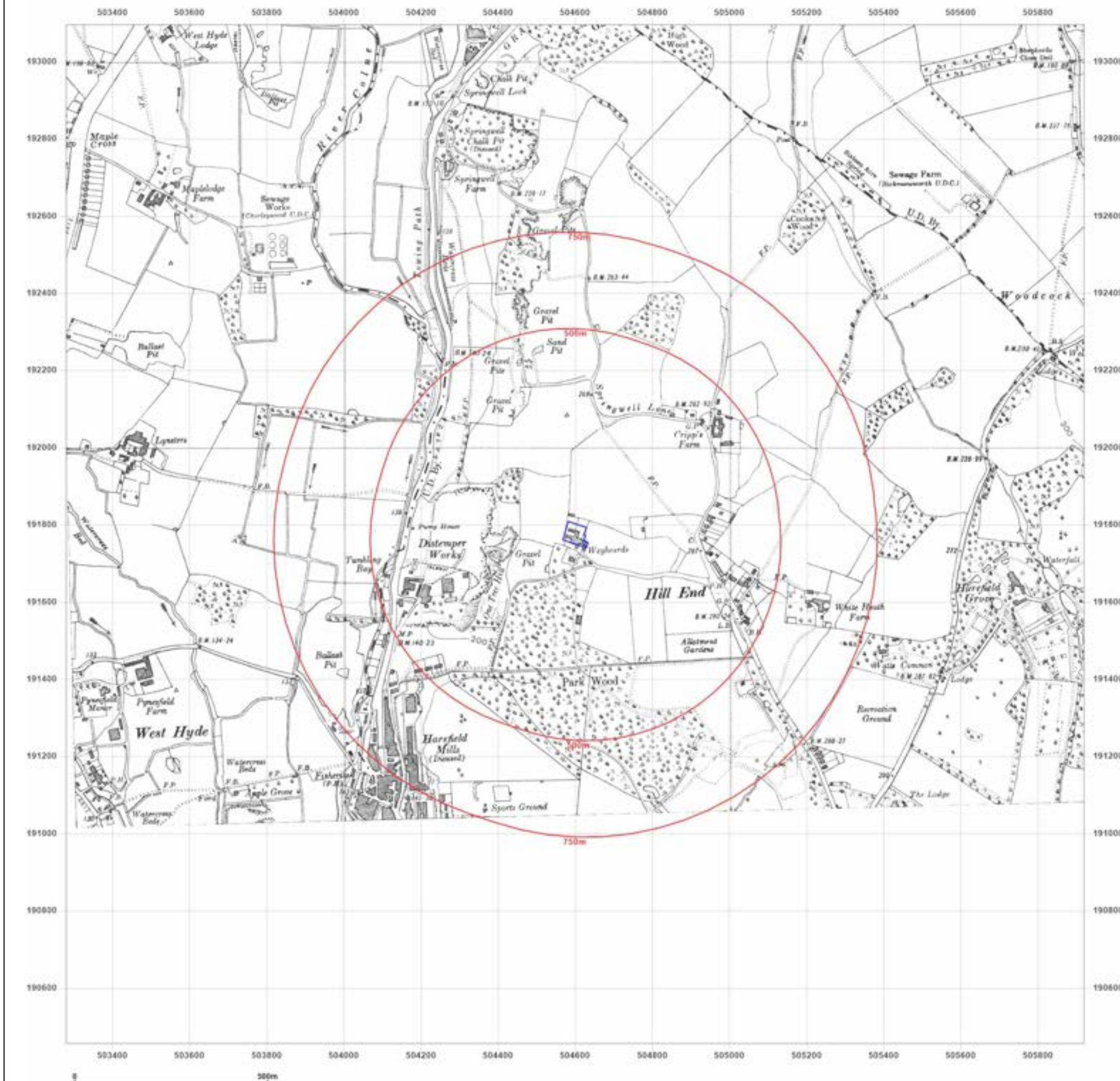


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: Provisional

Map date: 1955-1960

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1956
Revised 1956
Edition N/A
Copyright 1960
Levelled N/A

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

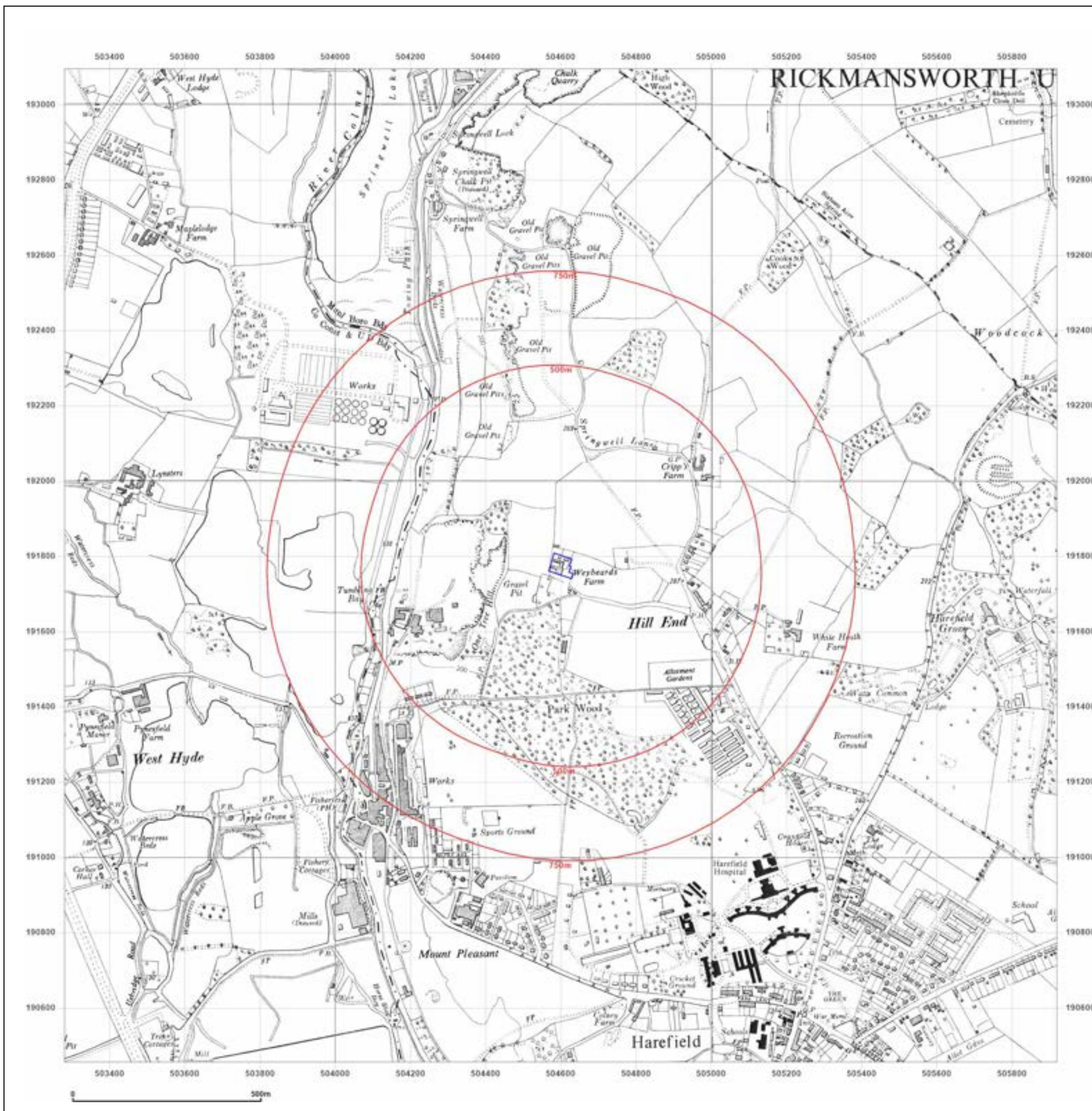


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: Provisional

Map date: 1965-1970

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1970
Edition N/A
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Surveyed 1965
Revised 1965
Edition N/A
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Levelled N/A

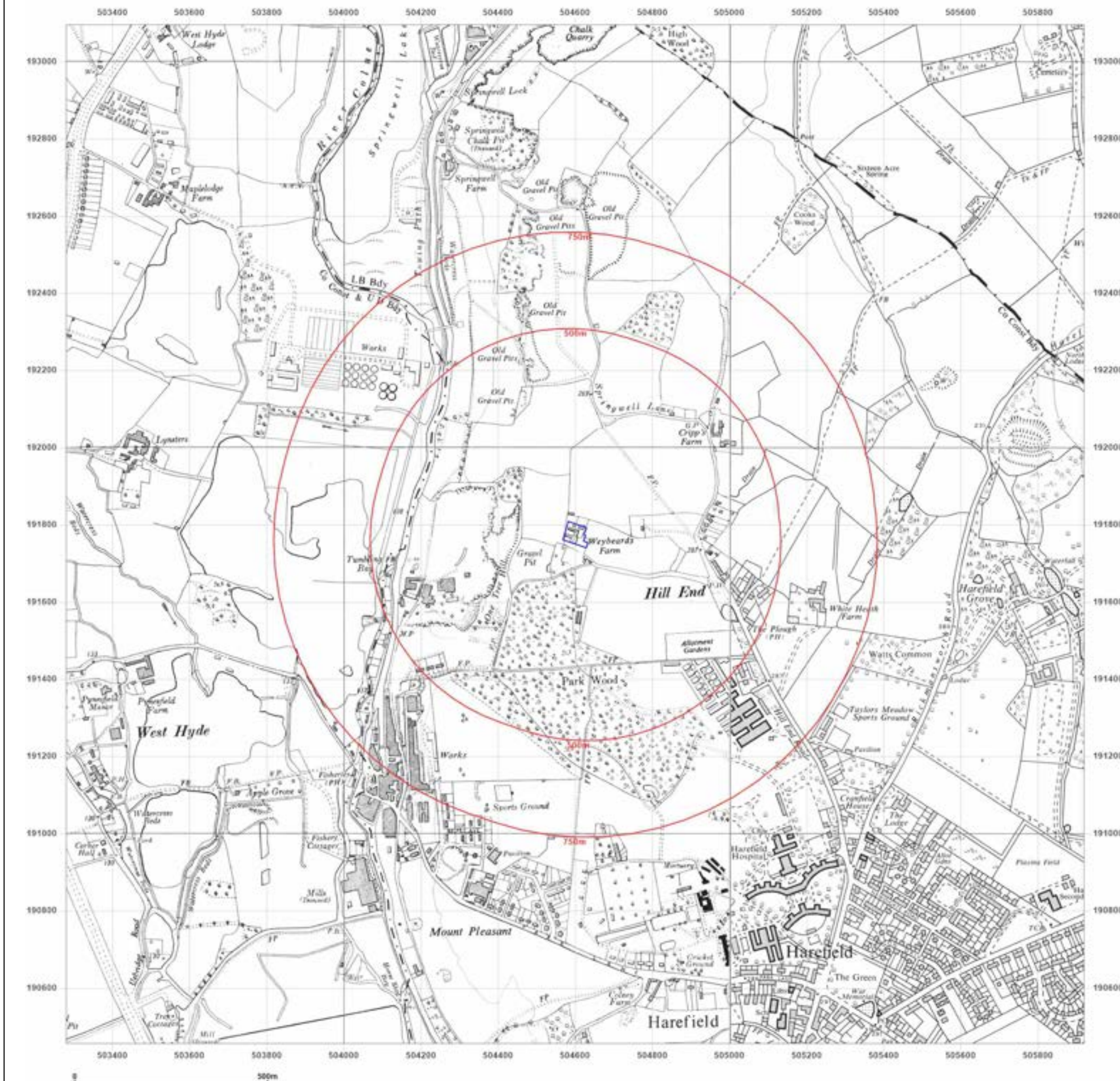


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Production date: 19 April 2023

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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: National Grid

Map date: 1974-1976

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1974
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Surveyed 1974
Revised 1976
Edition N/A
Copyright 1976
Levelled 1972

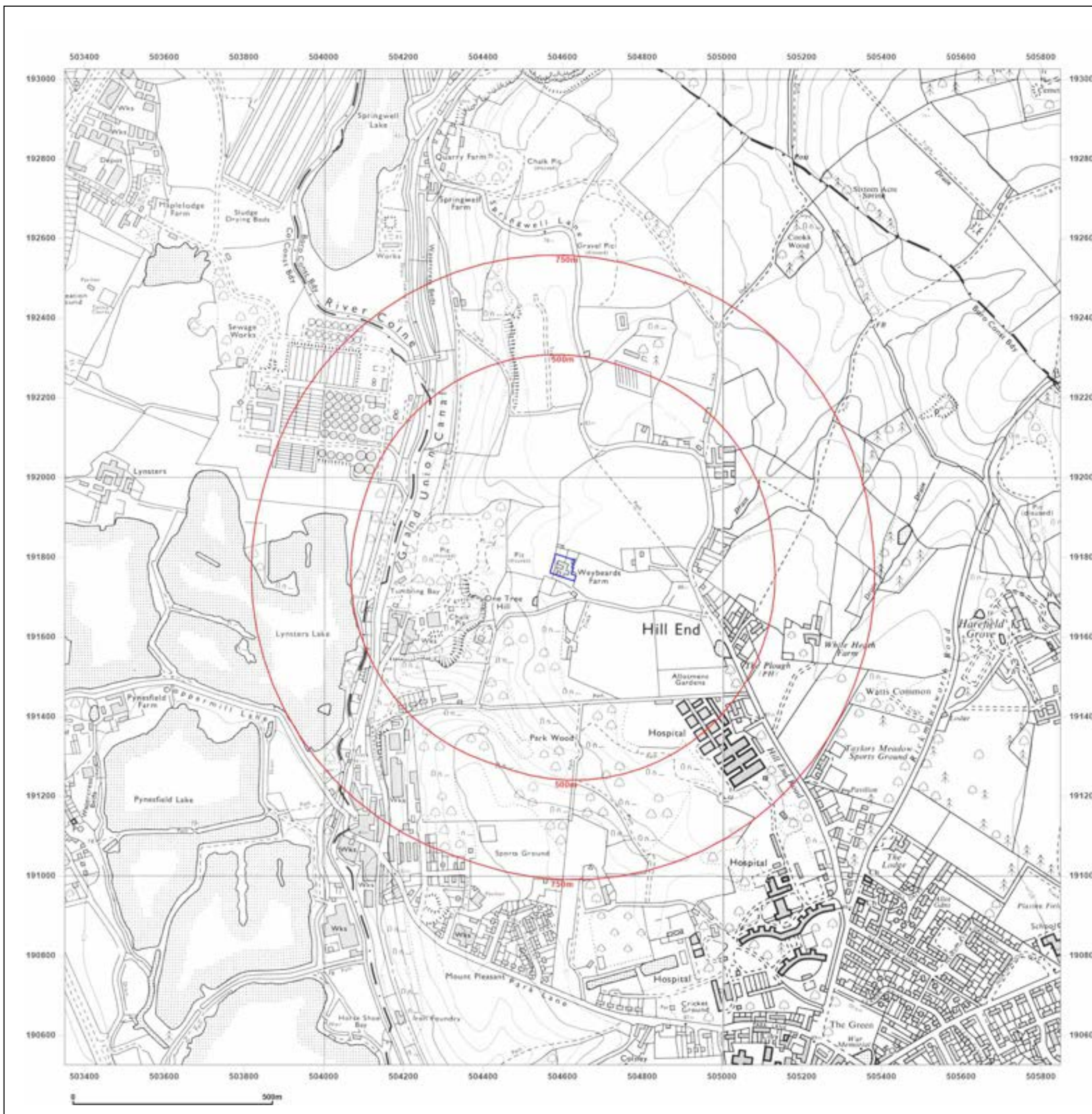


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Production date: 19 April 2023

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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: National Grid

Map date: 1987-1989

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1982
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Surveyed 1985
Revised 1989
Edition N/A
Copyright N/A
Levelled N/A

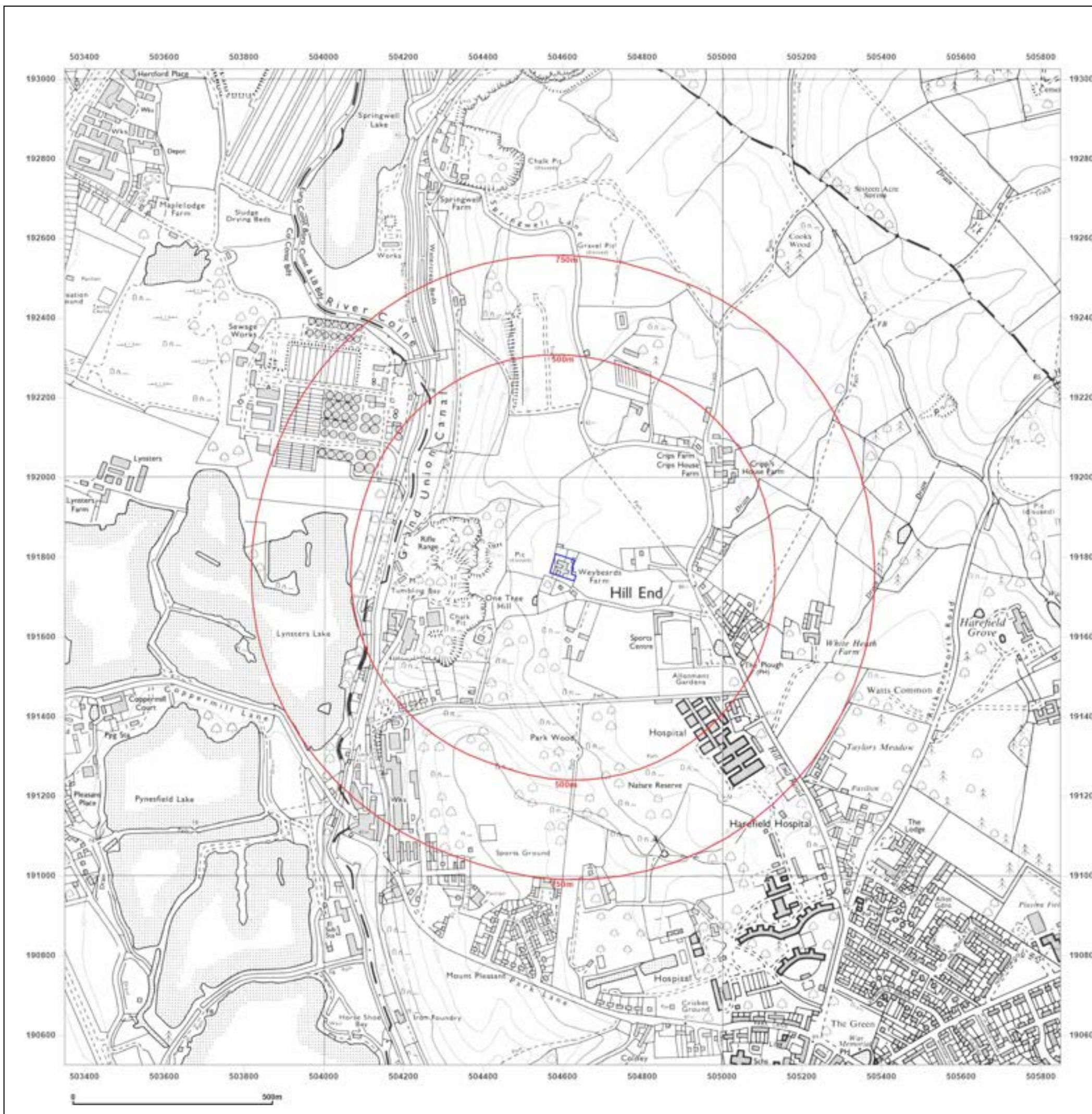


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

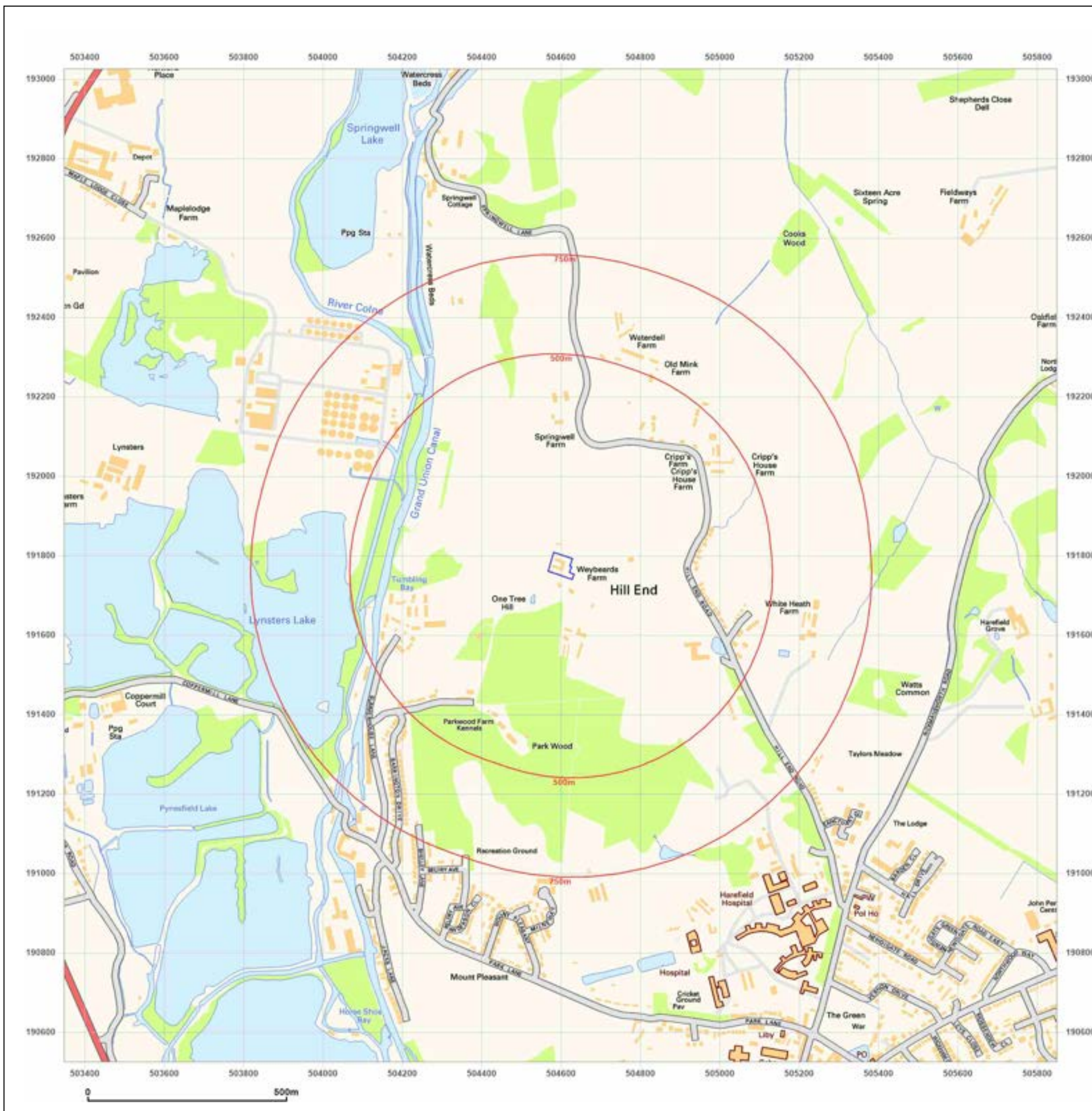


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Site Details:

WEYBEARDS FARM, HILL END
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Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

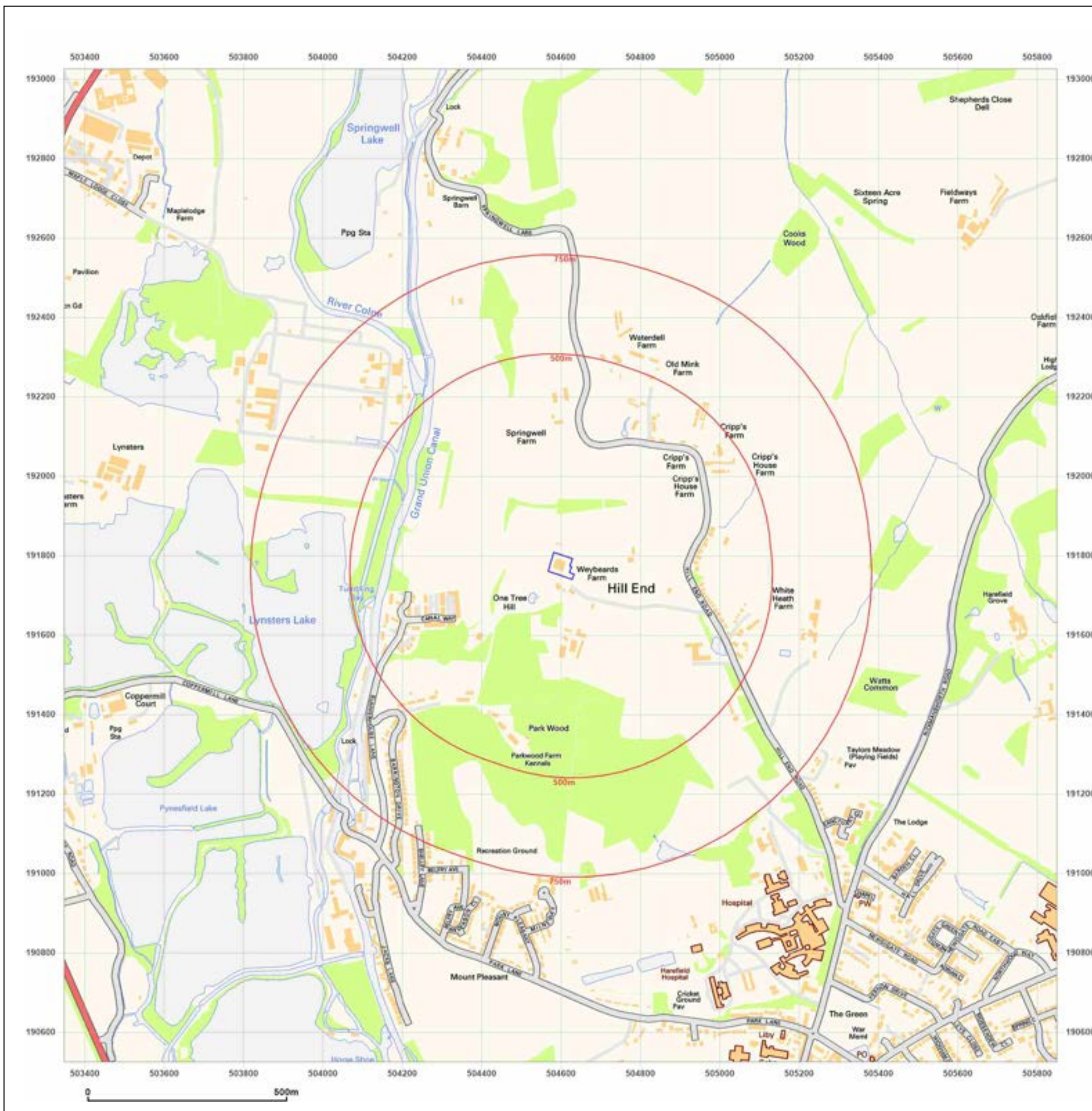


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Site Details:

WEYBEARDS FARM, HILL END
ROAD, HAREFIELD, UB9 6LH

Client Ref: Old_Weybeards_Farm
Report Ref: GS-REH-OYN-TPQ-EHQ
Grid Ref: 504599, 191775

Map Name: National Grid

Map date: 2023

Scale: 1:10,000

Printed at: 1:10,000

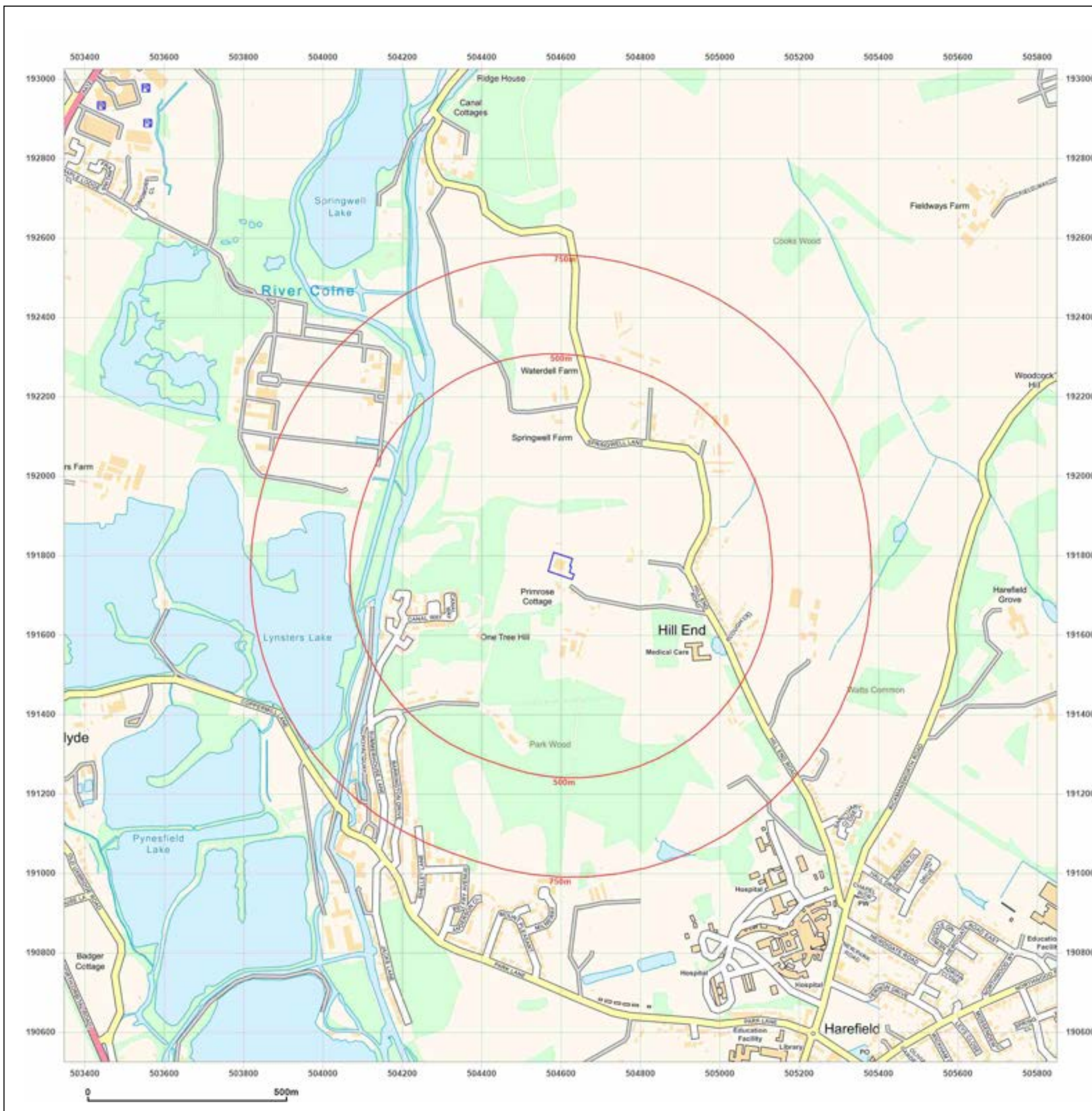


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APPENDIX C – LIMITATIONS

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.