



Botley West Solar Farm

Environmental Statement

Volume 3

**Appendix 11.9: Botley Central Site Area – Land Parcel
12, Desktop Study and Preliminary Risk Assessment**

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Contents

1	CENTRAL SITE AREA LAND PARCEL 12, DTS & PRA	1
1.1	Introduction	1
1.2	Objectives.....	1
1.3	Legislation and Guidance.....	2
2	SITE DESCRIPTION AND DESK STUDY	3
2.1	Site Location (Land Parcel 12).....	3
2.2	Proposed Development.....	4
2.3	Site History	4
2.4	Environmental Setting.....	5
2.5	Authorised Processes and Pollution Incidents.....	9
2.6	Unexploded Ordnance	10
3	OUTLINE CONCEPTUAL SITE MODEL	11
3.1	Background	11
3.2	Potential Pollutant Linkages.....	11
3.3	Outline Conceptual Site Model	14
4	CONCLUSIONS AND RECOMMENDATIONS	17
4.1	Preliminary Geoenvironmental Conclusions.....	17
4.2	Preliminary Geotechnical Conclusions	17
4.3	Recommendations	18
4.4	References.....	18

Tables

Table 2.1:	Neighbouring Land Uses.....	3
Table 2.2:	Historical Site Uses	4
Table 2.3:	Historical Neighbouring Site Uses	5
Table 2.4:	Descriptions of Geological Strata.....	5
Table 2.5:	BGS Ground Stability Hazard Ratings	9
Table 2.6:	Landfill / Waste Transfer / Waste Treatment Sites	10
Table 3.1:	Outline Conceptual Model.....	15

Annexes

Drawings Drawing 1: Site Location Plans
 Annex A PRA Methodology
 Annex B Limitations of Assessment
 Annex C Groundsure Insights Historical Map Reports
 Annex D Groundsure Insights Environmental Data Reports

Figures

Figure 1:	Extent of Land Parcel 12.....	3
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Glossary

Term	Meaning
The Applicant	SolarFive Ltd
The Project	The Botley West Solar Farm (Botley West) Project
Conceptual Site Model	used to identify potential sources, pathways and receptors and how they interact (i.e. potential pollutant linkages) on site post development
Controlled Waters	Controlled waters mean territorial waters within the 3 nautical mile limit, coastal waters extending inland, inland waters and ground water
Desk Top Study	A desk study is the collation and review of information already available in the public domain and is carried out at an early stage of site appraisal and forms the basis of the preliminary risk assessment
Pathway	How the contaminant may be expected to move/migrate to a receptor
Preliminary Risk Assessment	Report that presents a summary of readily available information on the geotechnical and/or geo-environmental characteristics of the site and provides a qualitative assessment of geo-environmental and/or geotechnical risks in relation to the proposed development.
Principal Aquifer	These formations provide a high level of water storage and may support water supply and / or river base flow on a strategic scale
Receptor	Target that could be adversely affected by contaminants
Secondary A Aquifer	These formations are formed of permeable layers capable of supporting water supplies at a local scale, in some cases forming an important source of base flow to rivers.
Secondary B Aquifer	These formations are generally formed of lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering
Secondary Undifferentiated Aquifer	Secondary undifferentiated are aquifers where it is not possible to apply either a Secondary A or B definition because of the variable characteristics of the rock type. These have only a minor value
Site of Special Scientific Interest	Sites designated by Natural England under the Wildlife and Countryside Act 1981. This can include sites of national and international importance for sediments, rocks, fossils, and features of the landscape
Source	Source of contamination
Unproductive Strata	These formations have a low permeability and have negligible significance for water supply or base flow

Abbreviations

Abbreviation	Meaning
AOD	Above Ordnance Datum
bgl	Below Ground Level
BGS	British Geological Survey
CIRIA	Construction Industry Research and Information Association
CSM	Conceptual Site Model
DTS	Desk Top Study
EA	Environment Agency
HDD	Horizontal Directional Drilling
NGET	National Grid Electricity Transmission
NGR	Ordnance Survey National Grid Reference
NPPF	National Planning Policy Framework
NVZ	Nitrate Vulnerable Zone
PAOC	Potential Areas of Concern
PRA	Preliminary Risk Assessment
PV	Photovoltaic
PVDP	Photovolt Development Partners GmbH
RBMP	River Basin Management Plan
SAC	Special Area of Conservation
SPA	Special Protection Area
SPZ	Groundwater Source Protection Zone
SSSI	Site of Special Scientific Interest
UXO	Unexploded Ordnance
WFD	Water Framework Directive

Units

Unit	Description
%	Percentage
m	Metres
kV	Kilovolt
km	Kilometre
MW	Megawatt

1 Central Site Area Land Parcel 12, DTS & PRA

1.1 Introduction

- 1.1.1 This Appendix of the Environmental Statement (ES) has been prepared by RPS on behalf of Photovolt Development Partners GmbH. (PVDP) for the Applicant, SolarFive Ltd. (SolarFive). This Appendix supports Chapter 11 of the ES.
- 1.1.2 The Project will be located in the county of Oxfordshire, across an area of approximately 1,300 ha. The Project extends from an area of land in the north, situated between the A4260 and the Dorn River Valley near Tackley and Wootton (Northern Site Area), through a central section, situated broadly between Bladon and Cassington (Central Site Area), and connecting to a section further south near to Farmoor Reservoir and north of Cumnor (Southern Site Area), where the Project will connect to the National Grid transmission network. The name 'Botley West' is derived from the location of the grid connection point. The consent being sought for the Project is a temporary one. Temporary consent is being sought for a 42-year period during which the solar farm will be constructed, operated and decommissioned.
- 1.1.3 The Project comprises three main development sites for installation of ground-mounted solar photovoltaic (PV) panels (Northern, Central and Southern Site Areas) The Project's solar arrays will be connected by electrical cables within each of the Site Areas. The interconnecting cable routes between the Site Areas will largely follow the public highway, but some parts will cross land either leased by the Client or the subject of an easement agreement.
- 1.1.4 A Site Location Plan showing the location and order limits for The Project is presented as Drawing 1. In order to provide sufficient detail for the PRA, the three main areas of The Project have been sub-divided by RPS into fourteen land parcels (referenced as Land Parcels 01 – 14) and the two linking cable route corridors (referenced as Land Parcels 15 and 16). Land Parcel 1 was discounted from requirement for further assessment following completion of an initial EIA Scoping exercise undertaken by RPS in February 2023.
- 1.1.5 This report presents the DTS information and PRA for Land Parcel 12, forming The Central Site area as shown in Figure 1.
- 1.1.6 The Desk Study assessment is based upon a review of published information available from local, regional and national agencies. The desk study information is derived from GeoInsights Reports provided by Groundsure, Ref. GSIP-2022-12757-10509 and GSIP-2022-12757-10510_2b which are presented as Annexes C and D. Please note the terms and conditions attached to the supply of data from Groundsure.

1.2 Objectives

- 1.2.1 The principal objectives of this assessment were as follows:
- Establish from published sources the geological sequence for the Application Site for Land Parcel 12 and potential for ground instability to

occur through development proposals and the extent and nature of any safeguarded minerals reserves;

- To assess potential sources of contamination at the site, associated with historical and current land uses both on site and in the surrounding area;
- To review the environmental setting to assess the sensitivity of the surrounding area to contamination/pollution;
- To produce an outline Conceptual Site Model (CSM) detailing how any contamination may impact the identified receptors via pollutant linkages; and
- To conclude on the likely requirement for any further assessment and ground investigation required in support of the planning application.

1.2.2 The PRA methodology utilised in the preparation of this assessment is presented in detail in Annex A.

1.3 Legislation and Guidance

1.3.1 The assessment has been undertaken in general accordance with British Standard BS EN ISO 21365:2020 and is considered suitable to meet the initial requirements of planning as outlined within the National Planning Policy Framework (NPPF). The assessment also reflects the recommendations of Environment Agency guidance, Land Contamination: Risk Management, (LCRM 2023).

1.3.2 This report has been produced in general accordance with:

- Contaminated Land (England) Regulations 2006 (as amended);
- DEFRA Environmental Protection Act 1990: Part 2A – Contaminated Land Statutory Guidance (2012);
- Environment Agency (2023) Land Contamination: Risk Management (LCRM 2023);
- National Planning Policy Framework (2023);
- CIRIA Document C665: Assessing Risks Posed by Hazardous Ground Gases to Buildings;
- British Standard requirements for the ‘Investigation of potentially contaminated sites – Code of practice’ (ref. BS10175:2011+A2:2017);
- British Standard requirements for the ‘Code of practice for ground investigations’ (ref. BS5930:2015+A1:2020); and,
- British Standard requirements for the ‘Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings’ (ref BS8485:2015+A1:2019).

1.3.3 Details of the limitations of this type of assessment are described in Annex B.

2 Site Description and Desk Study

2.1 Site Location (Land Parcel 12)

2.1.1 Land Parcel 12 comprises fields immediately to the south of Church Hanborough village, and to the west of Lower Road, Eynsham, West Oxfordshire, OX29 4EQ. It is located at approximate Ordnance Survey (OS) National Grid Reference (NGR) SP 431120 and occupies an area of approximately 76 ha. The extent of Land Parcel 12 is indicated in Figure 1 below.

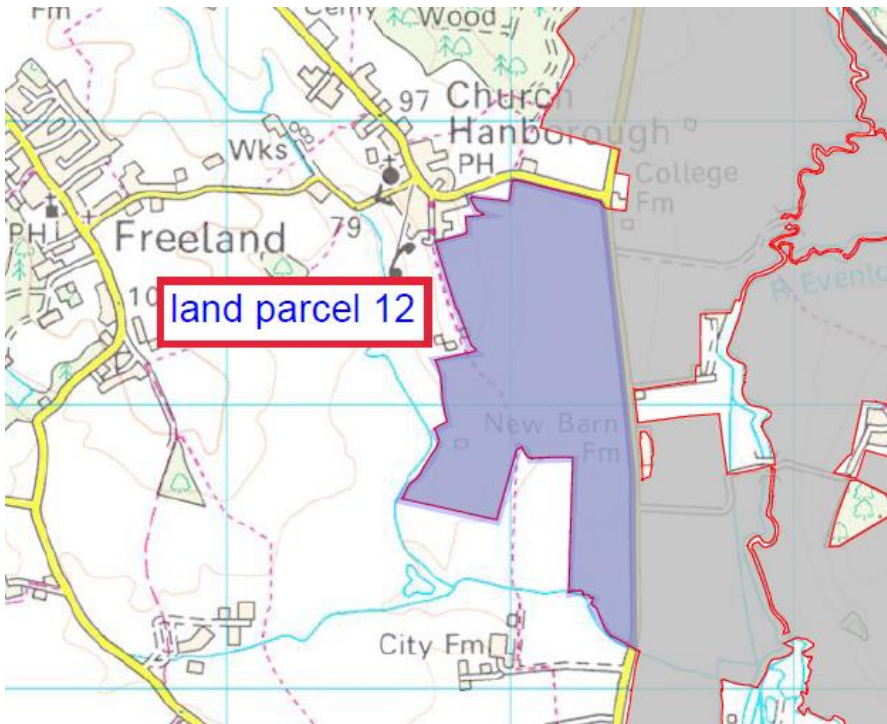


Figure 1: Extent of Land Parcel 12

2.1.2 This land parcel slopes from north-west to south-east with a difference in elevation from approximately 80 m Above Ordnance Datum (AOD) close to the north-western boundary to 65 m AOD on the south-eastern boundary based upon OS map contours.

2.1.3 A targeted site inspection has not been undertaken on this land parcel given the absence of any on site permitted current activities or potential contaminant sources identified from environmental data searches.

2.1.4 From Google Earth aerial photo images (May 2020), Land Parcel 12 is located in an area of predominantly agricultural land use. From the images reviewed, neighbouring land consisted of the following:

Table 2.1: Neighbouring Land Uses

Direction	Description
North:	Church Road and Farthings Lea Farm beyond, with fields and woodland. Village of Church Hanborough immediately to the north-west

Direction	Description
East:	Lower Road and fields beyond with isolated businesses / dwellings
South:	Fields and City Farm, quarry activity beyond
West:	Fields, river and woodland

2.2 Proposed Development

- 2.2.1 The proposed development is to comprise a temporary 1,307 MWp solar farm installation. The Project will connect to a new National Grid Electricity Transmission (NGET) system, via a new National Grid 400 kV substation, to be located close to the existing National Grid 400 kV line that runs between Cowley in Oxford, westwards to Walham, in Gloucestershire. The majority of the development (840 ha) will comprise solar PV modules (solar panels). At the highest point the modules will be 2.2 m and at the lowest point the modules will be 0.8 m. The arrays are intended to be fixed, not rotating. The construction of all aspects of the Project is subject to the final Project design and potential environmental constraints.
- 2.2.2 The method of foundation support and anchoring of the solar panels has not been confirmed however it is likely that this will be through use of galvanised steel piles or screws driven into the ground by an impact piling or screwing rig, to a depth of approximately 1.0 to 2.5 m below ground level (bgl).
- 2.2.3 Cable routes are to be installed at depths ranging from 1.5 m to 30 m bgl with Horizontal Directional Drilling (HDD) to be utilised where it is not feasible to use the 'open cut' method to cross obstacles such as hedges, rivers, railway lines, public rights of way, roads and sensitive archaeological or ecological areas.
- 2.2.4 There are likely to be four main temporary construction compounds in the development areas, one in the North, two in the Central area and one in the South. All compounds have been carefully sited in order to minimise potential adverse environmental impacts. Topsoil and subsoil will be stripped from such areas and stored on site for replacement following the completion of construction works. Each compound will have fencing and suitable hard standing, offices, welfare facilities and generators to supply electricity.

2.3 Site History

Historical Map Review

- 2.3.1 The following review is based on past editions of readily available Ordnance Survey (OS) maps. These include scales of 1:1,250, 1:2,500, 1:10,560 and 1:10,000 dated 1876 to 2022. Extracts from historical maps are included in Annex C.

Table 2.2: Historical Site Uses

On-site Land Use and features	Dates
Undeveloped agricultural land	1876 - 1974

On-site Land Use and features	Dates
Two unidentified buildings, one roofed, and a wall are indicated in the south-west portion of the site.	1974 - Present

2.3.2 Pertinent off-site historical site uses within 250 m are presented below.

Table 2.3: Historical Neighbouring Site Uses

Surrounding Land Use (250 m Radius)	Orientation	Distance	Dates	
			From	To
Disused Pit	South	100 m	1974	Present
Electricity Substation	West	200 m	1974	Present
Kiln	East	50 m	1881	1889
Old Quarry	East	120 m	1881	1889
Old Quarry	East	180 m	1880	1899
Old Kiln	East	200 m	1880	1899

Site Planning History

2.3.3 From a review of West Oxfordshire District Council, there are no relevant and readily available planning records for Land Parcel 12.

2.4 Environmental Setting

Geology

2.4.1 Based on British Geological Survey (BGS) mapping (1:50,000-scale) and the Environment Agency (EA) Groundwater Vulnerability mapping (1:100,000-scale), the stratigraphic sequence and aquifer classifications beneath the site are indicated to be as follows:

Table 2.4: Descriptions of Geological Strata

Strata	Description & approximate thickness	Aquifer Classification
Superficial Deposits		
Alluvium – possibly present in extreme west	Typically soft to firm consolidated, compressible silty clay, but can contain layers of silt, sand, peat and basal gravel. Thickness unknown.	Secondary A
Hanborough Gravel Member – in the north-west of the site	Typically up to 6 m thick comprising sand and gravel.	Secondary A
Summertown Radley Sand and Gravel – covers eastern half of the site and linear band towards the south-west	Typically up to 6 m thick comprising sand and gravel. BGS borehole log ref. SP41SW30 indicates 1.10 m of very clayey very sandy fine to coarse limestone gravel.	Secondary A

Strata	Description & approximate thickness	Aquifer Classification
Bedrock		
Peterborough Member (mudstone) – <i>north-west of the site</i>	Typically up to 65 m thick comprising brownish grey fissile fossiliferous organic-rich mudstone.	Unproductive
Kellaways Clay Member (mudstone) – <i>covers majority of the site</i>	Typically up to 20 m thick comprising grey silicate mudstone locally with thin beds of siltstone and sandstone, and nodules of argillaceous limestone.	Unproductive
Kellaways Sand Member (interbedded siltstone and sandstone) – <i>outcrops in the north-west of the site and inlier in the south-west</i>	Typically up to 10 m thick comprising pale grey silicate sandstones and siltstones with interbeds of sandy and silty mudstone.	Secondary A
Cornbrash Formation (Limestone) – <i>along the eastern side of the site</i>	Typically up to 4 to 10 m thick comprising medium to fine grained predominantly bioclastic wackestone and packstone with sporadic peloids limestone. Cornbrash was encountered at a depth of 1.90 m Below Ground Level (BGL) within BGS Borehole log ref. SP41SW/30 and identified as rubbly fossiliferous limestone. The base of this unit was not proven. BGS borehole ref. SP41SW/35 indicates 'stone' between ground level and 3.00 m BGL.	Secondary A
Forest Marble Formation (mudstone) – <i>anticipated to underlie the Cornbrash Formation</i>	Typically between 10 and 30 m thick comprising greenish grey variably calcareous and locally sandy silicate mudstone. BGS Borehole ref. SP41SW/35 indicates a sequence of blue clay and white stone underlying Cornbrash which is identified as the Forest Marble Formation between 3.00 m BGL and 11.60 m BGL.	Secondary A
White Limestone Formation (limestone) – <i>anticipated to underlie the Forest Marble Formation (formerly known as the Great Oolite Limestone)</i>	Typically between 20 m and 30 m thick comprising pale to off-white or yellow limestone, peloidal wackestone and packstone with subordinate ooidal and shell fragmental grainstone. BGS Borehole ref. SP41SW/35 indicates hard grey stone as the Great Oolite Limestone between 11.60 m and 21.00 m BGL.	Principal Aquifer

2.4.2 Twelve historical boreholes dating from 1967 are indicated on the land parcel on the BGS) online geology viewer, however they are identified to be confidential with no available records. The closest available BGS borehole record is indicated approximately 35 m to the east of Land Parcel 12 (ref. SP41SW/30). This indicates topsoil to 0.80 m depth comprising brown silty clay with gravels of quartz and white limestone, overlying River Terrace

Deposits of very clayey gravel to 1.10 m BGL and weathered Cornbrash to 2.30 m BGL. The second closest BGS borehole log (ref. SP41SW35) is approximately 52 m to the north-east in an area indicated to be directly on shallow bedrock (no superficial cover identified) of Cornbrash to 3.05 m BGL underlain by Forest Marble Formation strata to 11.59 m BGL and White Limestone Formation to the base of the borehole.

2.4.3 Made Ground is not anticipated across the majority of Land Parcel 12 given its limited historical development. No site investigation reports have been reviewed to verify this. However localised Made Ground may be present within the vicinity of the two existing buildings in the south-west of Land Parcel 12.

2.4.4 The BGS records indicate an area of artificial ground immediately south of the site. BGS identify the artificial ground as worked ground (void) and is considered to be associated with the disused pit identified on historical maps in this area. Based on aerial imagery, the area of the disused pit / worked ground appears to have been backfilled at some point in the past with some remaining surface evidence of former past extraction activities. Although not on the land parcel, this may present an off-site source of potential contamination and / or ground gas that may impact on the site.

Hydrogeology

2.4.5 Land parcel 12 is located above Secondary A Aquifers relating to the superficial cover deposits, Kellaways Sand Member, Cornbrash Formation and Forest Marble Formation. The Peterborough Member and Kellaways Clay Member are both designated Unproductive Stratum. Definitions of these are summarised below:

- Secondary A Aquifer: These formations are formed of permeable layers capable of supporting water supplies at a local scale, in some cases forming an important source of base flow to rivers.
- Unproductive Stratum: These formations have a low permeability and have negligible significance for water supply or base flow.

2.4.6 According to EA data, the site is not located in a groundwater Source Protection Zone (SPZ).

2.4.7 Information provided by the EA indicates that there are no records of active licensed groundwater abstractions within 2 km of the site.

Surface Water

2.4.8 Information provided by the EA indicates that there are no records of active licensed surface water abstractions within 2 km radius.

2.4.9 There are no surface watercourses recorded on Land Parcel 12, although there is a minor watercourse partially defining the western boundary. The nearest watercourse within 1 km which classified within a River Basin Management Plan published by the EA under the European Water Framework Directive (2000) is the River Evenlode (Glyme to Thames) approximately 400 m east. This had a 2019 chemical rating of 'fail' and overall rating of 'poor'.

Ecologically Sensitive Sites

- 2.4.10 Natural England data indicates that there are three ecologically sensitive sites, that constitute environmental receptors as defined within Table 1 of the DEFRA Environmental Protection Act 1990: Part 2A - Contaminated Land Statutory Guidance (2012), located within a 500 m radius of the site.
- 2.4.11 Two records relate to an Ancient and Semi-Natural Woodland and Ancient Replanted Woodland, approximately 200 m and 299 m, respectively, to the north of Land Parcel 12. An area of Green Belt is also identified immediately off-site to the east of Land Parcel 12.
- 2.4.12 The environmental data report also indicates that the northern portion of Land Parcel 12 is within a Conservation Area associated with neighbouring Church Hanborough village and accompanied by several records of Grade II listed buildings within the village.

Radon

- 2.4.13 Radon can be a risk to human health from inhalation of radioactive elements. According to the Indicative Atlas of Radon in England and Wales published by the Health Protection Agency (part of Public Health England) and the British Geological Survey, Land Parcel 12 is located in an area at risk from radon gas. The western half of the site is indicated to be within an area where less than 1 % of homes are at or above the Action Level. However the eastern half of the site is indicated to be within an area where the maximum radon potential is 5 – 10 % of homes are at or above the UK Radon Action Level.
- 2.4.14 Due to the nature of the development, it is unlikely that there will be any regularly occupied buildings forming part of the development proposals therefore there is no significant radon risk posed from solar farm development of Land Parcel 12.

Coal Mining

- 2.4.15 The Interactive Map Viewer on the Coal Authority website indicates that the site is not located in a coal mining reporting area.

Non-Coal Mining

- 2.4.16 BGS sources indicate that the site is not located in an area of recorded non-coal mining (vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities including ball clay, jet, black marble, graphite and chert).

Historical Mineral Planning Areas

- 2.4.17 There are two available records for historical mineral planning areas on or immediately adjacent to Land Parcel 12. One record for City Farm was refused and no further details supplied, and this covered a portion of the western boundary of the southern tip of Land Parcel 12 and immediate area to the west. The second record also relates to City Farm, for the area immediately south of

the site, associated with former extraction activities and pits. Both records are for sand and gravel commodities. The planning status date of the latter record is indicated to 23/5/1955 (and referred to as valid).

Current Mineral Safeguarding Areas

2.4.18 Reference to the Oxfordshire County Council, Minerals and Waste Local Plan (2017) and the Oxfordshire Minerals and Waste Local Plan Policies Map (2017) indicates that the south of Land Parcel 12 falls within designated Minerals Safeguarding and Minerals Consultation Areas for sharp sand and gravel reserves. In accordance with the plan requirements for non-mineral related development that affect a safeguarded site, further assessment would be required to demonstrate economic viability and sustainability considerations of the mineral resource and that pre-extraction is not required.

BGS Ground Stability Hazard Ratings

2.4.19 British Geological Survey Ground Stability Hazard ratings for the site are summarised as follows:

Table 2.5: BGS Ground Stability Hazard Ratings

Ground Stability Hazard	BGS Risk rating
Collapsible ground	Very Low
Compressible ground	Negligible
Ground dissolution	Negligible to Low
Landslide	Very Low to Moderate (moderate applies to very small area on western boundary - majority of site Very Low)
Running sand	Negligible to Low
Shrinking or swelling clay	Negligible to Moderate (outcropping Kellaways Clay)

2.4.20 The ‘moderate’ risk identified for shrinking/swelling clays means that the ground conditions are predominantly high plasticity and therefore may be prone to seasonal changes in soil moisture content.

2.5 Authorised Processes and Pollution Incidents

Landfills and Waste Sites

2.5.1 Information provided by a number of sources (detailed below) shows that there is one recorded licensed waste management site recorded within 250 m of Land Parcel 12. This is described within the following table. There is also one record for waste exemption within 250 m radius.

Table 2.6: Landfill / Waste Transfer / Waste Treatment Sites

Source of Record	Approx. Distance and Direction	Licence Details	Waste Type and Details
Licensed Waste Sites			
Environment Agency	52 – 66 m west	Mc Kenna Plant Hire (Oxford) Ltd at City Farm Waste Management Licence No. 103305 Surrendered May 2015	Use of waste for reclamation etc 100,000 tps
Waste Exemptions			
NAP Field, Church Hanborough	177 m west	‘Using’ waste exemption ‘Disposing of’ waste exemption	Use of waste for a specified purpose Spreading waste on agricultural land to confer benefit Burning waste in the open

Environmental Permits

2.5.2 EA and Local Authority data indicates that there are no processes regulated by an Environmental Permit (under the Environmental Permitting Regulations 2010) within 250 m of Land Parcel 12.

COMAH Sites

2.5.3 There are no records of any operations under the Control of Major Accident Hazards (COMAH) Regulations 1999, located within 500 m of Land Parcel 12.

Pollution Incidents

2.5.4 Environment Agency data indicates that there are no records of ‘major’ or ‘significant’ pollution incidents within 500 m of Land Parcel 12.

2.6 Unexploded Ordnance

2.6.1 CIRIA Report C681 (Stone et al., (2009)) outlines recommendations for dealing with the potential risk associated with the legacy of Unexploded Ordnance Risk, largely relating to WWII bombing and military sites.

2.6.2 Reference to the Zetica Unexploded Bomb Risk mapping indicates that the site is in an area of low potential risk from Unexploded Bombs. As the site is not within an area of known military history, in general accordance with CIRIA Report no further consideration of Unexploded Ordnance is considered necessary.

3 Outline Conceptual Site Model

3.1 Background

3.1.1 An outline conceptual site model (CSM) consists of an appraisal of the source-pathway-receptor 'contaminant linkages' which is central to the approach used to determine the existence of 'contaminated land' according to the definition set out under Part 2A of the Environmental Protection Act 1990. For a risk to exist (under Part 2A), all three of the following components must be present to facilitate a potential 'pollutant linkage'.

- **Source** referring to the source of contamination (Hazard).
- **Pathway** for the contaminant to move/migrate to receptor(s).
- **Receptor** (Target) that could be affected by the contaminant(s).

3.1.2 Receptors include human beings, controlled waters and buildings / structures. The National Planning Policy Framework, used to address contaminated land through the planning process, follows the same principles as those set out under Part 2A.

3.1.3 As part of the assessment the potential risks to receptors for potential source is given one of the following classifications:

- **Low risk** - it is considered unlikely that issues within the category will give rise to significant harm to identified receptors;
- **Moderate risk** - it is possible, but not certain that issues within the category will give rise to significant harm to receptors;
- **High risk** - there is a high potential that issues within the category will give rise to significant harm to identified receptors.

3.2 Potential Pollutant Linkages

3.2.1 Each stage of the potential pollutant linkage sequence has been assessed individually on the basis of information obtained during the desk study exercise and are discussed in the following section.

Potential Contaminant Sources

On-Site Current

3.2.2 There are two agricultural buildings in the south-west. Google Earth imaging shows one of these to be roofed, the other appears to be in a derelict poor condition. It is possible that there is localised Made Ground associated with the construction of these buildings or from the degradation of the buildings over time. Contaminants may include metals, hydrocarbons or asbestos from building materials in addition to what may have historically been stored in the buildings.

3.2.3 The presence of naturally occurring elevated contaminant concentrations (e.g. sulphate) in clay rich soils that could affect structures/utilities cannot be discounted.

On Site – Historical

- 3.2.4 No historical on site potentially contaminative land uses have been identified.

Off-site – Current

- 3.2.5 Current off-site potential sources of contaminants of concern include disused pits backfilled with unknown material and that may represent a source of ground gases within 100 m of Land Parcel 12. However, given the nature of the development, assumed absence of occupied structures and limited exposure for future site users, the ground gas risk has been discounted from further assessment.
- 3.2.6 An electrical substation is present some 200 m to the west of Land Parcel 12 in Church Hanborough dating from 1974. Given the age this could represent a potential source of Polychlorinated Biphenyl's (PCBs).

Off-Site – Historical

- 3.2.7 Historical maps indicate a kiln feature some 50 m from the site between 1881 and 1889. This does not appear to have been associated with any large-scale industrial activity although may represent a localised source of Polycyclic Aromatic Hydrocarbons (PAHs) from historical burning of materials or Made Ground remaining from the former structures.

Potential Pathways

- 3.2.8 The north-east of Land Parcel 12 is indicated to be underlain by predominantly granular permeable superficial deposits within which there is potential for gaseous or leachable contaminants of concern (if present) beneath the site to migrate on or off-site via granular horizons or via shallow groundwater. These may impact on controlled waters receptors or on/off-site human health receptors via the dermal contact, ingestion and vapour inhalation pathways however there are no identified potential on site contamination sources that coincide with these deposits.
- 3.2.9 The presence of low permeability mudstones and clays beneath the superficial deposits, it is considered that this will likely limit the further downward migration of any contaminants of concern via leaching or shallow groundwater (where present). The low permeability strata anticipated will also retard the lateral migration of liquid or gaseous contaminants from off-site sources. Based on local topography the shallow groundwater flow direction is anticipated to be to the south-east.
- 3.2.10 The buildings identified in the south-west as representing a potential source of Made Ground are located on the outcropping strata of the Kellaways Clay Member, typically cohesive in nature, a non-productive aquifer and likely to retard lateral or vertical migration of contaminants over any great distance.
- 3.2.11 The use of driven pile foundations would indicate minimal generation of spoil at the surface therefore airborne migration of dust is unlikely.

- 3.2.12 It should be noted that pathways may be modified or exacerbated by disturbance of the site.

Potential Receptors

Controlled Waters

- 3.2.13 The site overlies Secondary A Aquifers associated with the superficial cover deposits and the underlying Cornbrash Formation and Forest Marble Formation. The outcropping Kellaways and Peterborough Member strata are classified as unproductive strata. The majority of the land parcel is therefore considered to be of low sensitivity with regard to groundwater receptors, the north-east and east where there are designated Secondary A Aquifers have a greater degree of sensitivity to contamination however there are no groundwater abstractions within 2 km and the area is not within a groundwater SPZ.
- 3.2.14 A number of minor surface water bodies are identified within 100 m radius, including that on the western boundary.

Human Health

- 3.2.15 Following construction of The Project it is not envisaged that there will be any full-time occupants of the site however it is expected that there will be periodic requirements for maintenance work/checks. The risks posed to maintenance workers are considered to be low given the historical site usage and what would be short-term exposure to residual soils.
- 3.2.16 The localised nature of potential on site contamination sources, low dust generation potential of the preferred method of installing driven anchors/supports for the banks of PV panels and low-density residential development in the area around Land Parcel 12 would indicate no significant risks to off-site human health receptors. The assessment does not consider the risk to construction/demolition workers during redevelopment. These risks will be managed through appropriate Health and Safety legislation including the Health and Safety At Work Act and in accordance with the Construction Design and Management (CDM) regulations (2015).

Solar Farm Structures

- 3.2.17 Another potential receptor are the foundations for PV panels, cables and steel structures likely to be placed within the shallow soils (and possibly through Made Ground). There is a risk from chemical attack from sulphates present within Made Ground (where present) or the natural strata present or corrosion / degradation of steel anchors/supports or cables from a high water table or acidic ground conditions. The widespread superficial cover and likely localised nature of any residual Made Ground to close proximity of buildings/structures would suggest low risk potential.

Sensitive Land Use

- 3.2.18 The north portion of Land Parcel 12 is located within a Conservation Area, however the current proposed plans for solar array installation does not fall within the designated Conservation Area of the land parcel. The construction/operational phases of the solar farm development are therefore not considered likely to adversely impact on the Conservation Area.
- 3.2.19 There are a number of designated Ancient Woodland sites within 300 m of this land parcel. The construction/operational phases of the proposed solar farm development are considered unlikely to adversely impact on these off-site receptors although any changes in long-term shallow drainage patterns from the installation of the banks of PV panels cannot be discounted.

3.3 Outline Conceptual Site Model

- 3.3.1 An outline CSM has been developed on the basis of the site reconnaissance and desk study. The CSM is used to identify potential sources, pathways and receptors (i.e. potential pollutant linkages) on site post development and is summarised in the table below.

Table 3.1: Outline Conceptual Model

Potential Source	Contaminants of Concern	Via	Potential Pathways	Linkage Potentially Active?	Receptors	Qualitative Risk Rating	Notes	
On site – current: Localised Made Ground associated with existing structures	Metals, hydrocarbons, metals and asbestos	Soil	Direct contact/ingestion	✓	Future site users	Low	The risk to human health is considered to be low given the limited occupancy of the development and localised to the area of existing development.	
			Inhalation of volatiles	✓				
			Airborne migration of soil or dust	✗	Off-site users	N/A		Distance and low source potential indicate no viable linkage from piled foundations.
			Leaching of mobile contaminants	✗	Secondary A Aquifer	N/A		Low contamination source potential and limited leaching potential from unproductive cohesive deposits present over much of the site.
Off-site – current: Made Ground (backfilled pits)	Metals, hydrocarbons, solvent and Polycyclic Aromatic	Groundwater	Direct contact/ingestion	✓	Future site users Off-site users	Low	Shallow groundwater likely to be limited to north-east and east where strata are predominantly granular. Low on site contamination source potential in this area.	
			Inhalation of volatiles	✓				
			Vertical and lateral migration in permeable strata	✓	Secondary A Aquifer	Low		Low contamination source potential, migration pathways likely to be limited to north-east only.
			Inhalation of volatiles	✗	Future site users	N/A		No anticipated regular occupation of buildings post construction.

Potential Source	Contaminants of Concern	Via	Potential Pathways	Linkage Potentially Active?	Receptors	Qualitative Risk Rating	Notes
Off-site – historical: kiln	Hydrocarbons (PAHs)						
~On-site – Natural Soils	Chemical attack (sulphates), acidic soils	Chemical Attack	Direct contact, shallow groundwater	✓	Steel foundations, concrete slabs	Low	Made Ground likely to be localised and anticipated bedrock strata unlikely to contain elevated sulphate levels. Shallow groundwater unconfirmed.

Note * The Qualitative Risk Rating does not consider the potential for the pathway to be active. In the event that a Moderate or High Qualitative Risk Rating is identified further assessment is recommended.

- 3.3.2 Based on the identified potential sources and the site setting there is not considered to be a significant risk to ecological receptors, crops/vegetation or archaeological receptor.

4 Conclusions and Recommendations

4.1 Preliminary Geoenvironmental Conclusions

- 4.1.1 The PRA undertaken has not identified any potentially significant potential source-pathway-receptor linkages relating to the proposed temporary solar farm development of Land Parcel 12 that would necessitate further geoenvironmental investigation or assessment.
- 4.1.2 The presence of unknown soil contamination being discovered during construction works cannot be discounted entirely and it is recommended that if encountered works should stop and specialist advice obtained on how to proceed.

4.2 Preliminary Geotechnical Conclusions

- 4.2.1 The available geological data suggests that sand and gravel dominated superficial deposits are present across much of the eastern half of the land parcel, where the underlying bedrock strata also comprise predominantly mudstones and limestones. The western half is likely to comprise mainly mudstones weathering to clays forming the Kellaways Clay Member.
- 4.2.2 The mudstone strata are likely to be suitable for installation of driven foundations or anchors for photovoltaic panels, however the mudstones tend to weather to clays which could be prone to shrinkage/heave effects particularly in close proximity to mature trees bordering the site or seasonal variations in moisture content. Limestone strata are likely to be less receptive to driven piles and shallow refusal may occur. Shallow superficial deposits may also contain cobbles/boulders or bands of very dense gravels in significant quantities to impede the ability to install driven/augered foundations or anchors. There is also potential for solution features to be present associated with limestone in the north-east although the 'low' hazard rating given by BGS and the absence of any recorded natural cavities within 500 m on the Stantec UK Ltd database would indicate that the potential for localised subsidence is unlikely and need not be considered except in exceptional circumstances.
- 4.2.3 Pile refusal, or failure to reach the target embedment depth, can result in insufficient capacity against lateral and uplift loads, and require remediation or alternate installation procedures therefore ground investigation is recommended to determine suitability of shallow ground conditions for driven foundation types. Alternative ground-based anchor systems may have to be considered if deemed unsuitable for achieving the required lateral loading parameters.

4.3 Recommendations

- 4.3.1 We recommend the following actions to clarify potential land stability risks at the site.
- 4.3.2 Based on anticipated ground conditions there is the potential for clay heave/shrinkage issues and / or solution features to affect the proposed development. Ground Investigation should be undertaken to inform appropriate geotechnical design of both pile support systems and ancillary structures and access roads. It would be prudent to take soil samples during the ground investigation for sulphate testing to assess the chemical attack to structures and concrete.

4.4 References

BGS. British Geological Survey Onshore GeoIndex. [online] Available at: <http://www.bgs.ac.uk/geoindex/> [Accessed 7th July 2023].

Building Research Establishment (2008): Guidance for the Safe Development of Housing on Land Affected by Contamination. R&D Publication 66.

British Standards Institution (2019): Soil quality — Conceptual site models for potentially contaminated sites. BS EN ISO 21365:2019.

Environment Agency (2023): Land Contamination: Risk Management (LCRM 2023).

Groundsure Insights Report (2022): GSIP-2022-12757-10509 and GSIP-2022-12757-10510_2b

<https://magic.defra.gov.uk/>

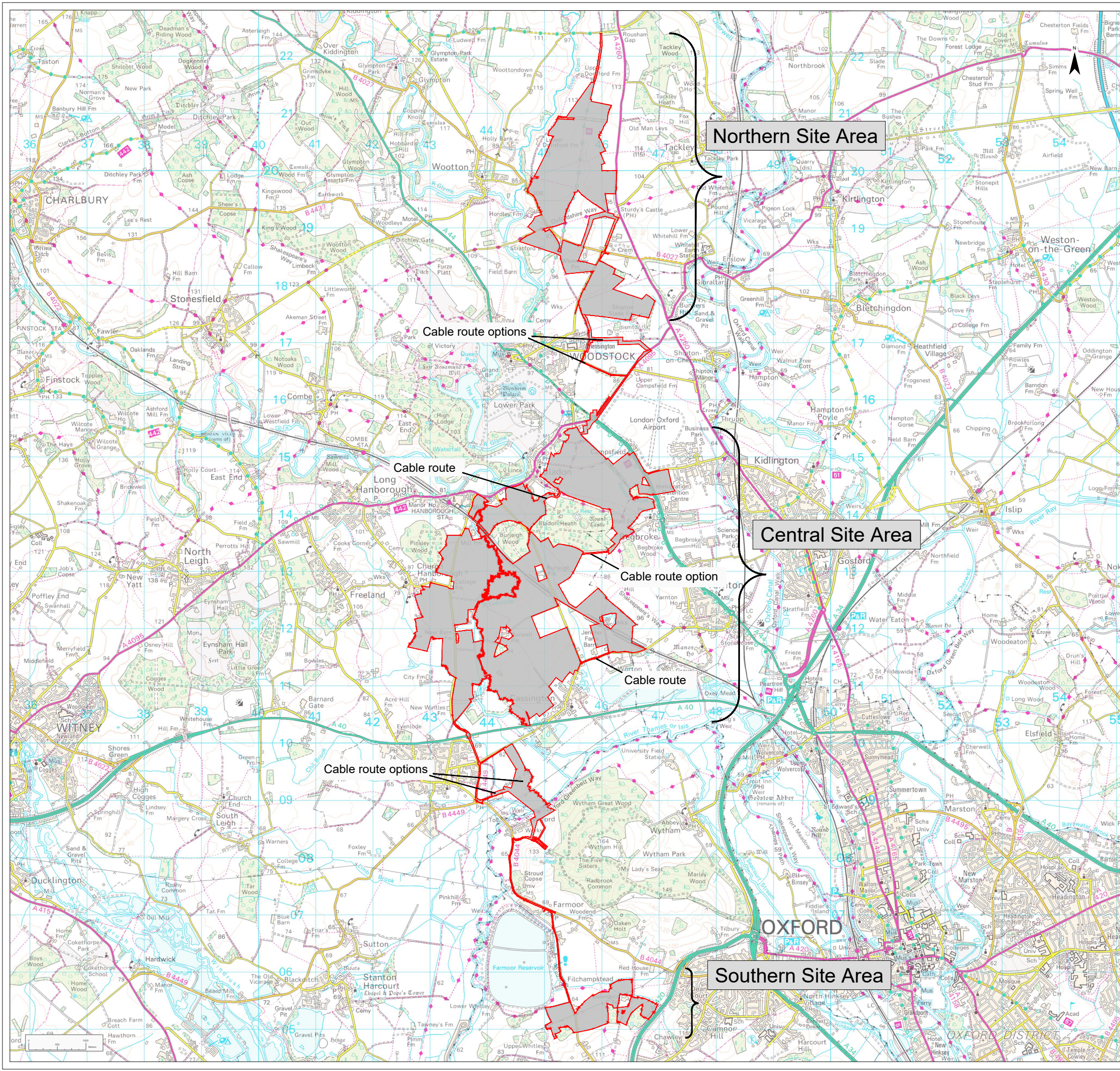
Oxfordshire County Council, Minerals and Waste Local Plan (2017)

[REDACTED]

RPS (2023): Botley West Solar Farm, EIA Scoping Report, Ground Conditions Ref 230403_R_JER9429_BOTLEY WEST SOLAR FARM_Scoping Report v1 r2

Drawings

Drawing 1: Site Location Plans



Legend

Site Location and Order Limits

Project		Status			
Botley West Solar Farm					
Id.	Changes	Date	Name	Date	Name
				25.04.2024	V. Guskova
				25.04.2024	H. Trabelsi
		Approval			
		Project-No			
		Drawing No			
A	Created	25.04.2024	VG	prj-01-0390	
CAD-data name: 240425 Botley West Masterplan Overview.dwg					
Scale: 1:65000		at A3		DIM: m	

Plan
 Site Location and Order Limits
 Overview
 Figure 1.1

Annex A PRA Methodology

PRA METHODOLOGY

INTRODUCTION

This report provides available factual data for the site obtained only from the sources described below and related to the site on the basis of the location provided by the client. The desk study information is not necessarily exhaustive and further information relevant to the site may be available from other sources. No responsibility can be accepted by RPS for inaccuracies in the data supplied by any other party.

This report is written in the context of an agreed scope of work and should not be used in a different context. Furthermore, new information and changes in legislation may necessitate a re-interpretation of the report in whole or in part after its original submission. The report is provided for sole use by the client and is confidential to them and their professional advisors. No reliance whatsoever is provided to any party other than the client unless otherwise agreed.

INFORMATION SOURCES

Current and Historical Land Use

This section establishes the former and current uses of the site, which could have caused contamination. Details of the site location, the current and proposed site uses have been provided by the client.

Information about the history of the site has been obtained through an inspection of historical maps at 1:10,000, 1:2,500 and 1:1,250 scales and historical aerial photographs (where available). The accuracy of maps cannot be guaranteed, and it should be recognised that different conditions on-site may have existed between, and subsequent to, the map survey dates.

Regulatory Records

Regulatory records including landfills, pollution incidents ('major' and 'significant' only), industry authorisations and licensed water abstractions are derived from information purchased from Groundsure Ltd (unless otherwise specified).

Environmental Setting

The geological sequence underlying the site and the approximate depths of strata are provided by maps published by the British Geological Survey (BGS) 1:50,000 scale and available borehole records held by the BGS.

The hydrogeological classification is obtained from Groundwater Vulnerability mapping by the BGS/EA/National Resources Wales (NRW). The vulnerability of groundwater is determined from this mapping and geological information.

The location of surface watercourses is obtained from an inspection of current OS maps. Flood risk details and information on groundwater Source Protection Zones are obtained from readily available EA/NRW information published on-line and supplied by Groundsure Ltd.

Details of sensitive ecosystems/habitats and coal mining areas are supplied by Natural England, Natural Resources Wales and Scottish Natural Heritage and the Coal Authority respectively via Groundsure Ltd and inspection of the MAGIC website.

Radon is a radioactive gas produced naturally by certain types of geology. This report uses the Indicative Atlas of Radon in England and Wales (2007) produced by the Health Protection Agency (HPA) and the British Geological Survey (BGS) to determine whether the site is located in an area at risk from radon gas. Where potential issues are identified, a site-specific radon report is obtained from the HPA and BGS to provide a more accurate estimate of the probability of the site being affected by radon gas ingress.

Annex B

Limitations of Assessment

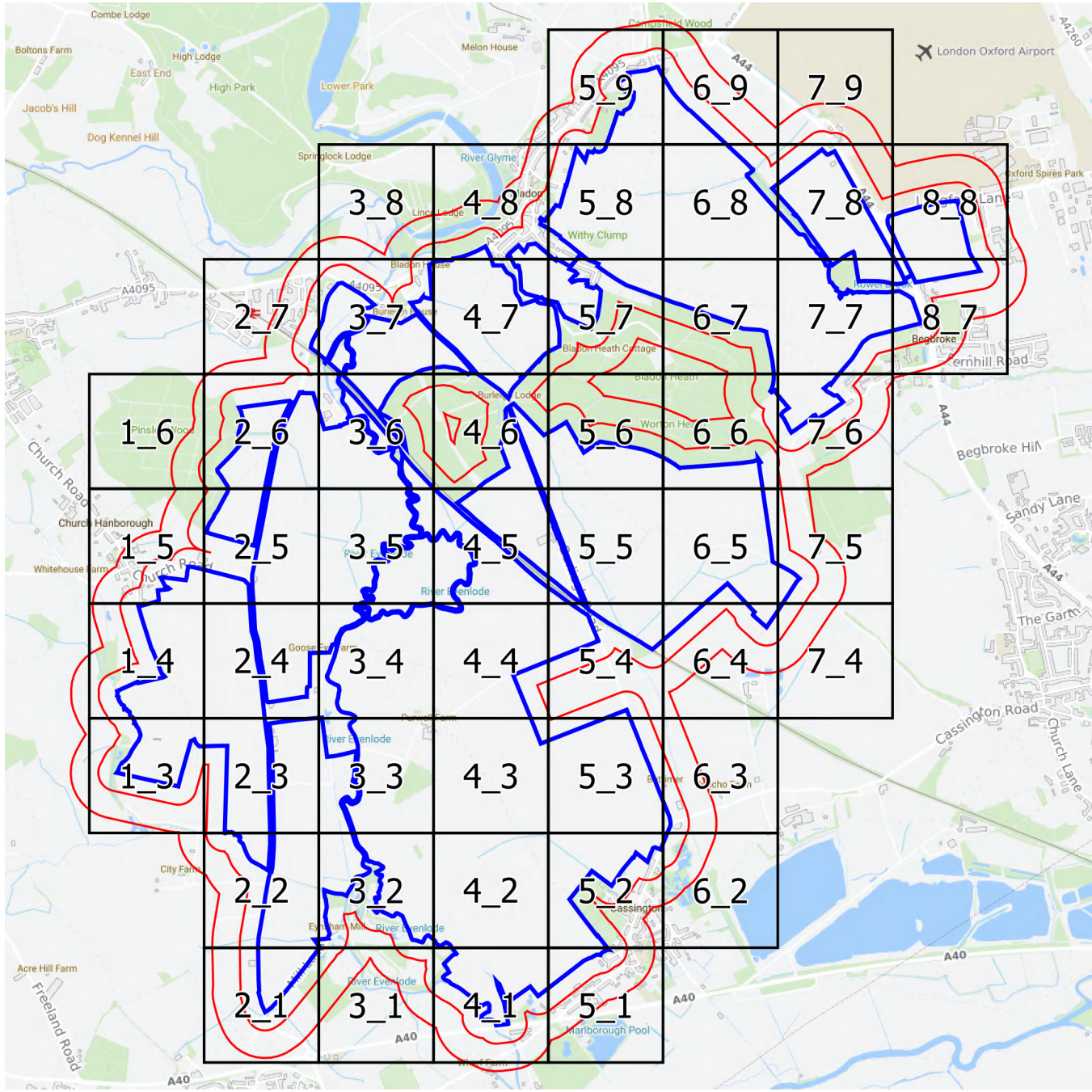
General Notes

RPS Consulting Services Ltd

Phase 1 - Environmental Risk Assessment / Desk Study Environmental Review

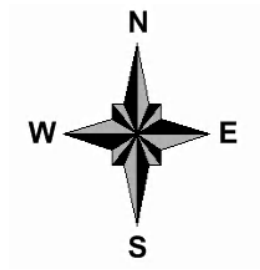
1. A "desk study" means that no site visits have been carried out as any part thereof, unless otherwise specified.
1. This report provides available factual data for the site obtained only from the sources described in the text and related to the site on the basis of the location information provided by the Client.
2. The desk study information is not necessarily exhaustive and further information relevant to the site may be available from other sources.
3. The accuracy of maps cannot be guaranteed and it should be recognised that different conditions on site may have existed between and subsequent to the various map surveys.
4. No sampling or analysis has been undertaken in relation to this desk study.
5. Any borehole data from British Geological Survey sources is included on the basis that: "The British Geological Survey accept no responsibility for omissions or misinterpretation of the data from their Data Bank as this may be old or obtained from non-BGS sources and may not represent current interpretation".
6. Where any data supplied by the Client or from other sources, including that from previous site investigations, have been used it has been assumed that the information is correct. No responsibility can be accepted by RPS for inaccuracies in the data supplied by any other party.
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Annex C Groundsure Insights Historical Map Reports



Groundsure
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1:2,500 Scale Grid Index



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_1_3
Grid Ref: 442774, 211657

Map Name: County Series

Map date: 1882

Scale: 1:2,500

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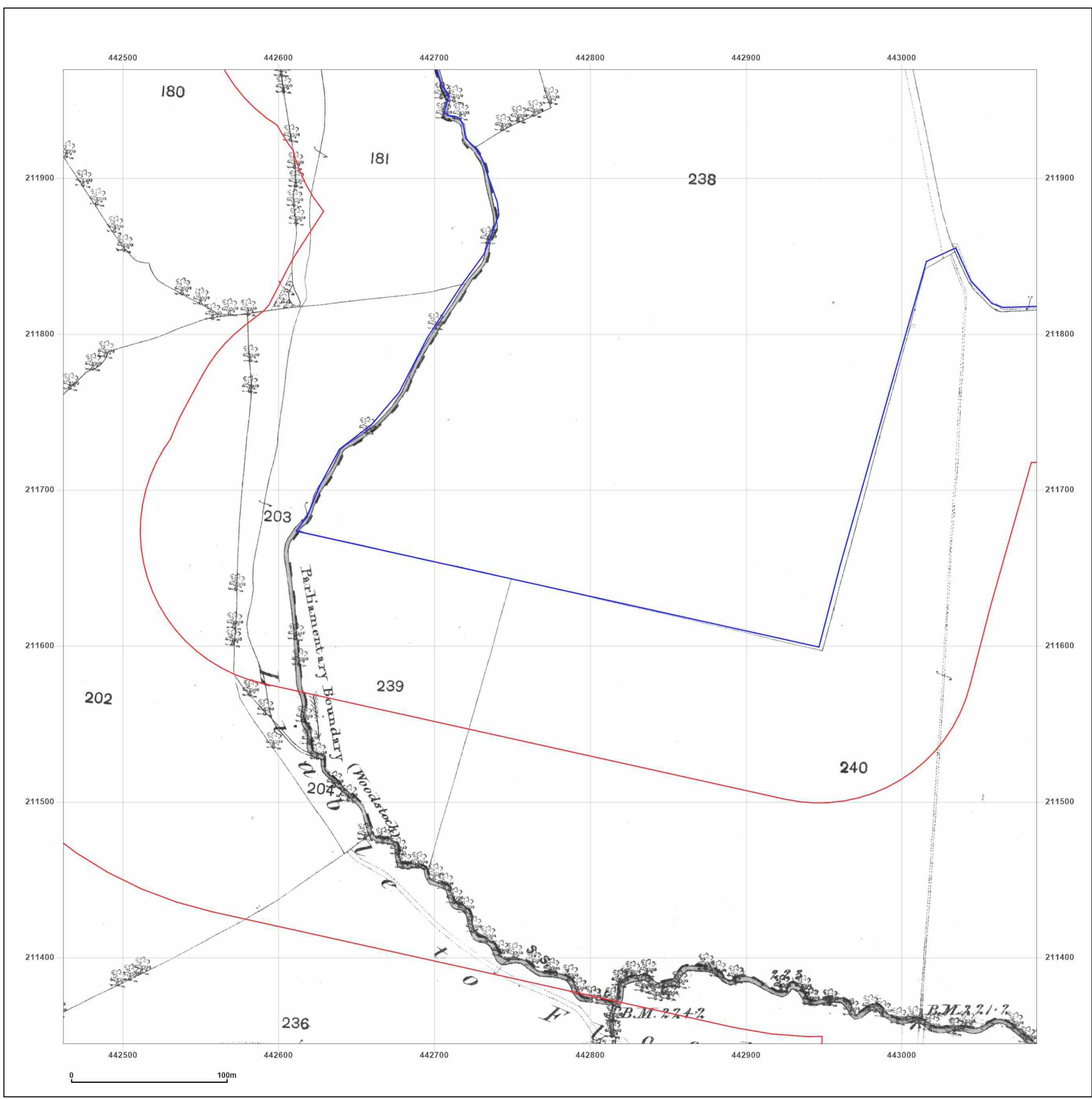


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Grid Ref: 442774, 211657

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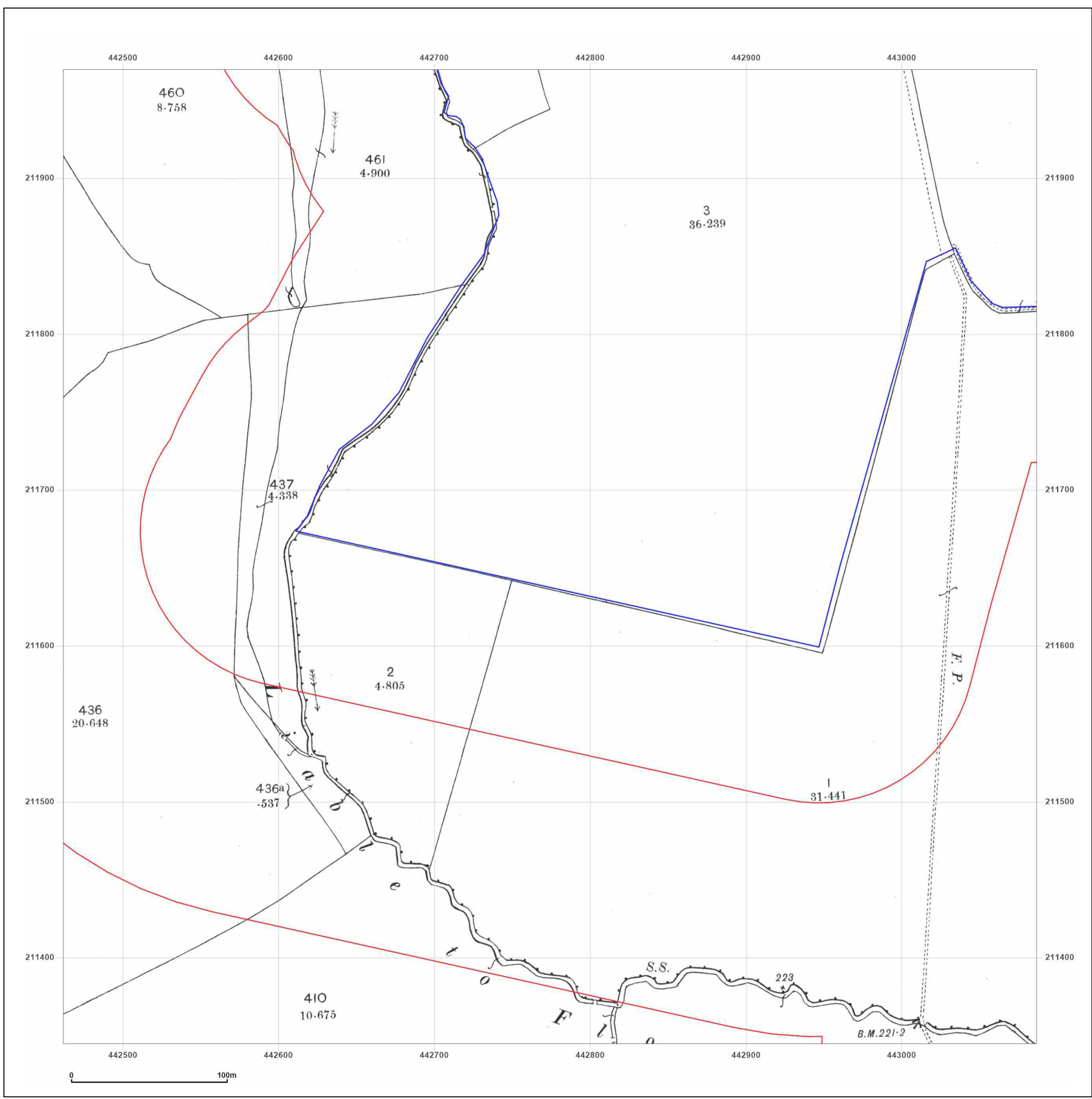


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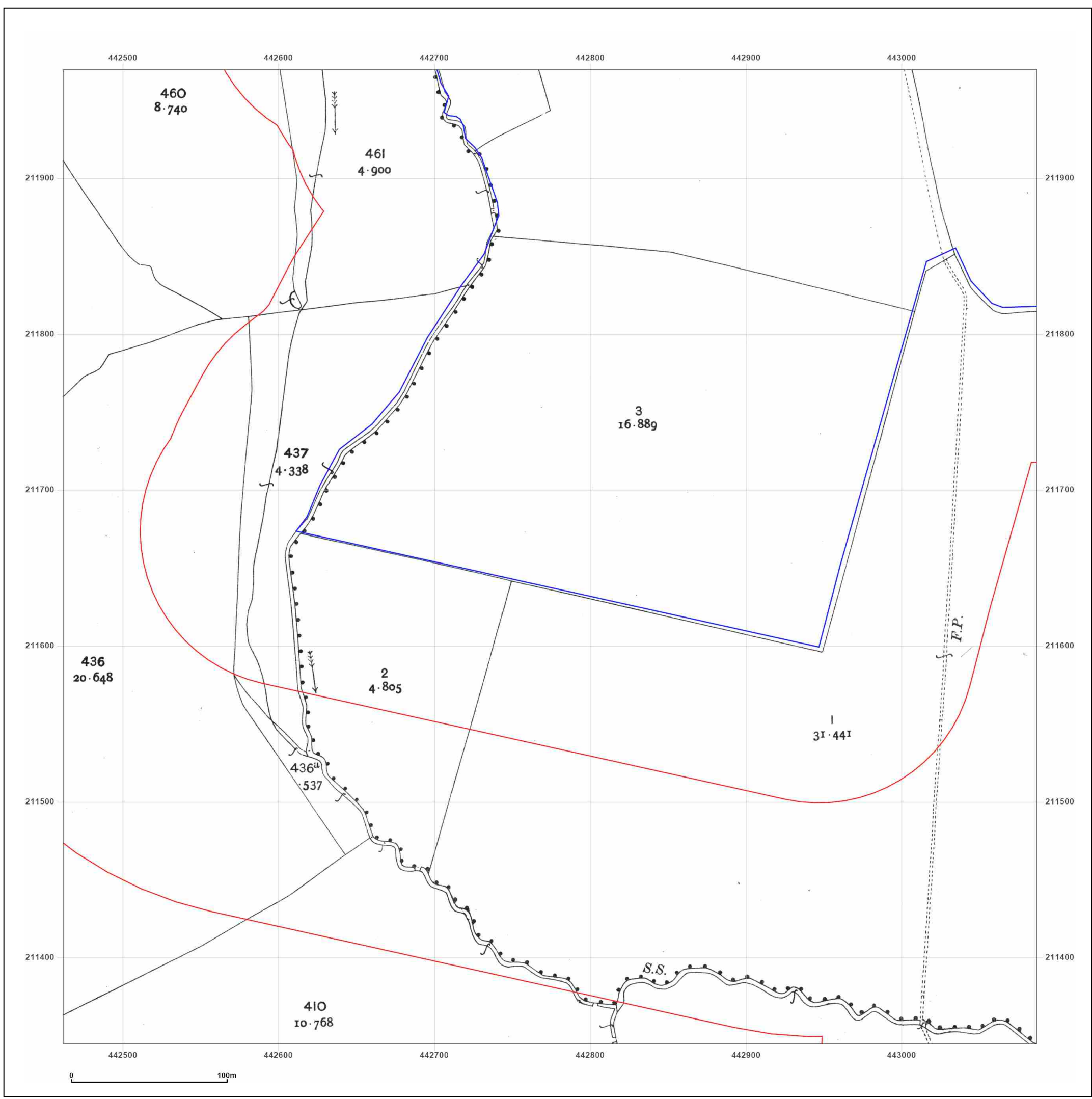


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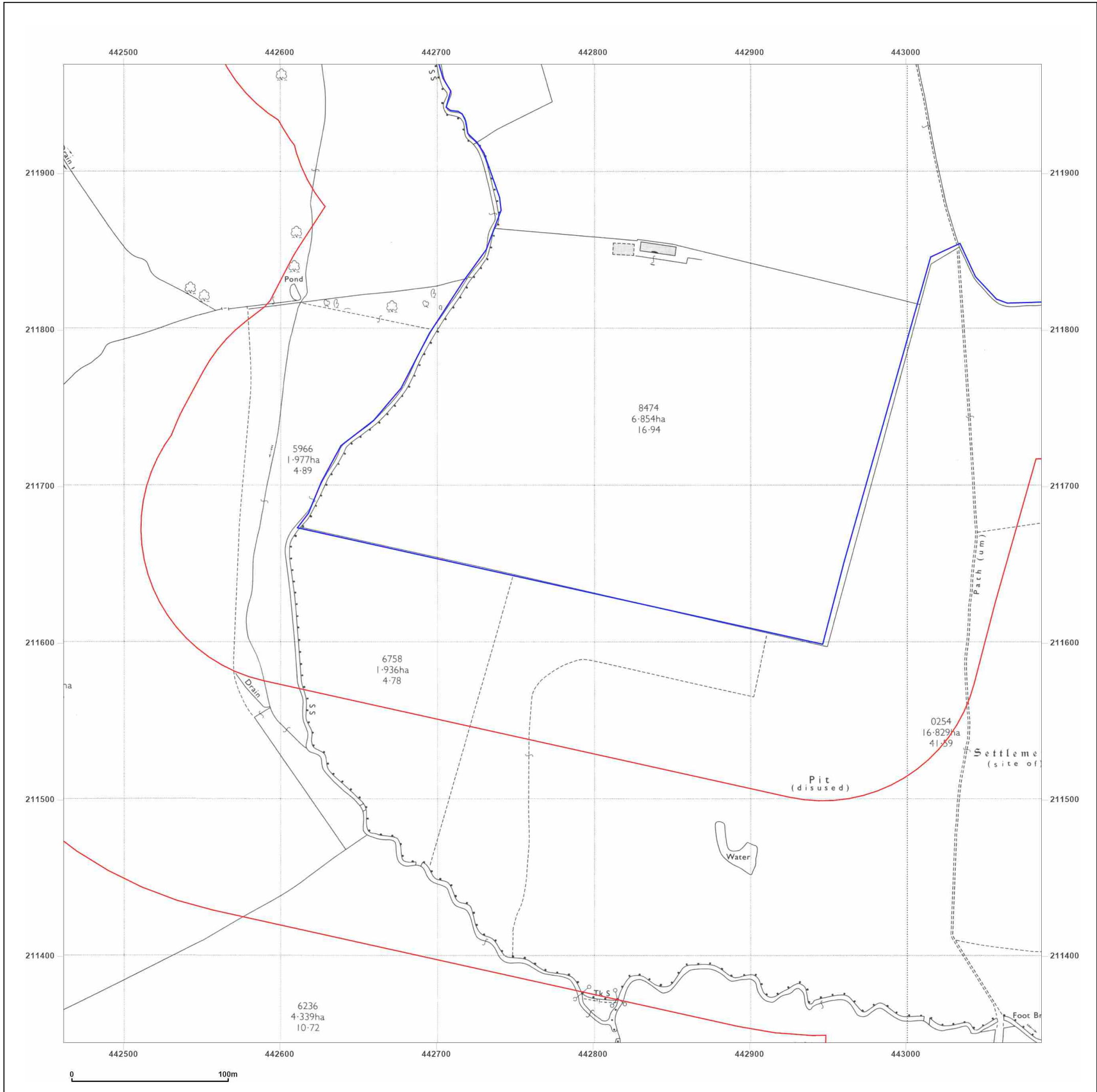
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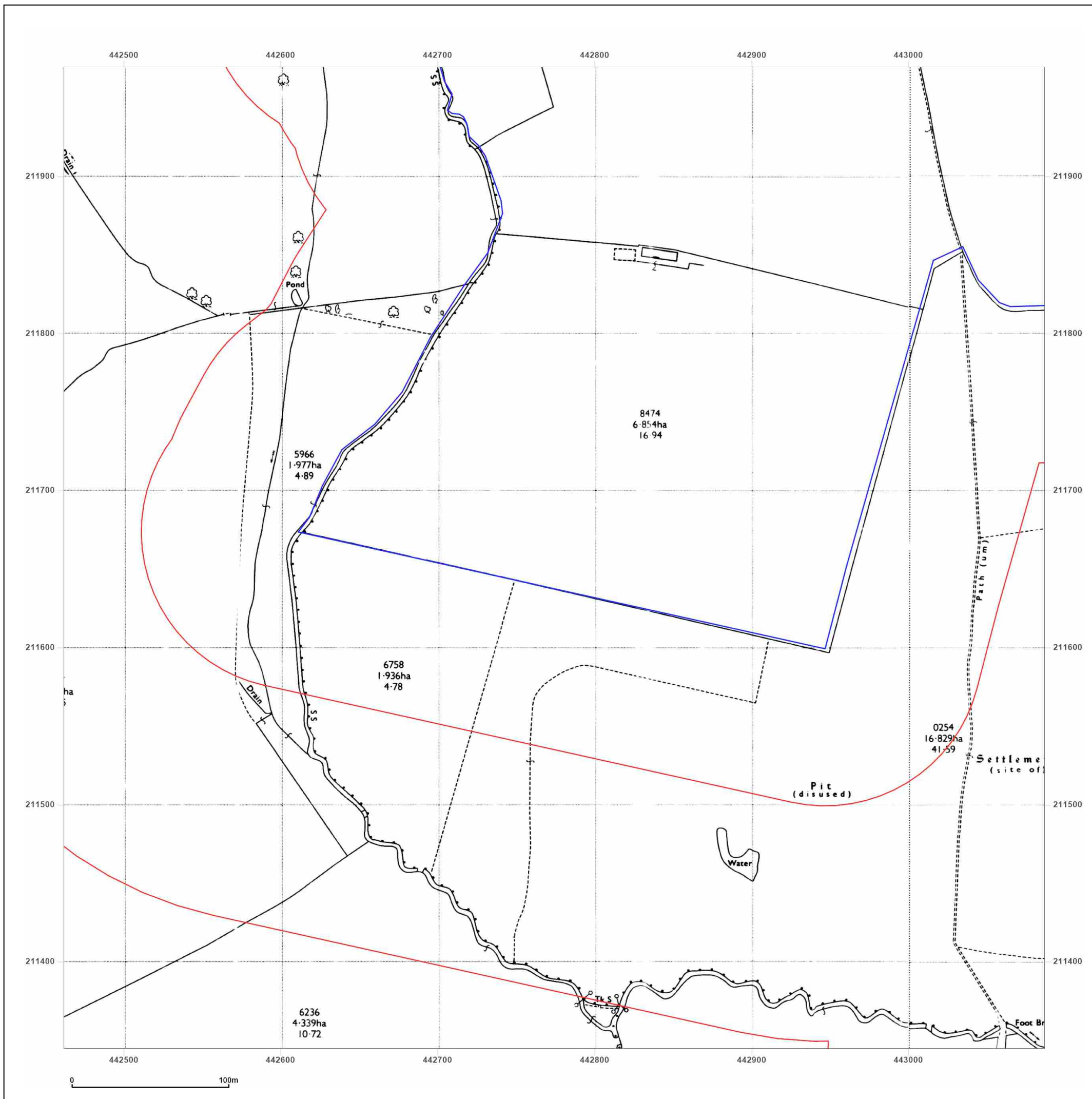
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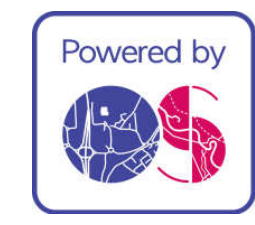
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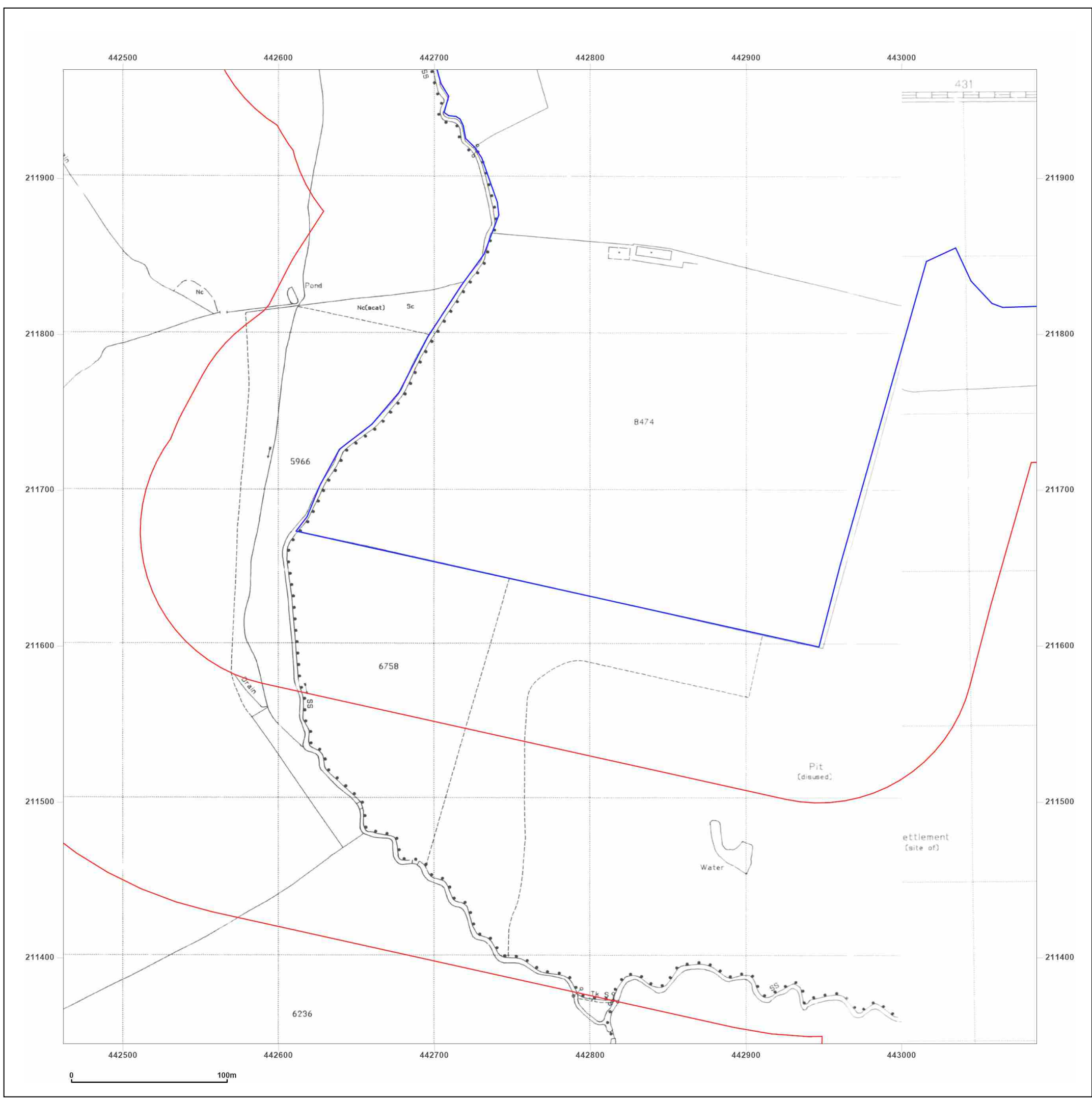


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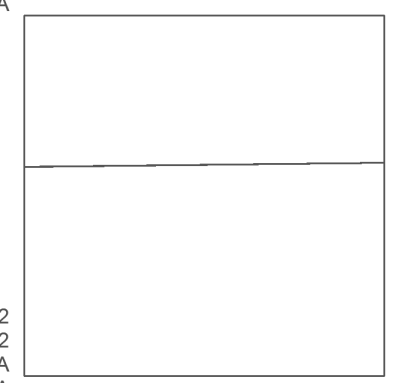
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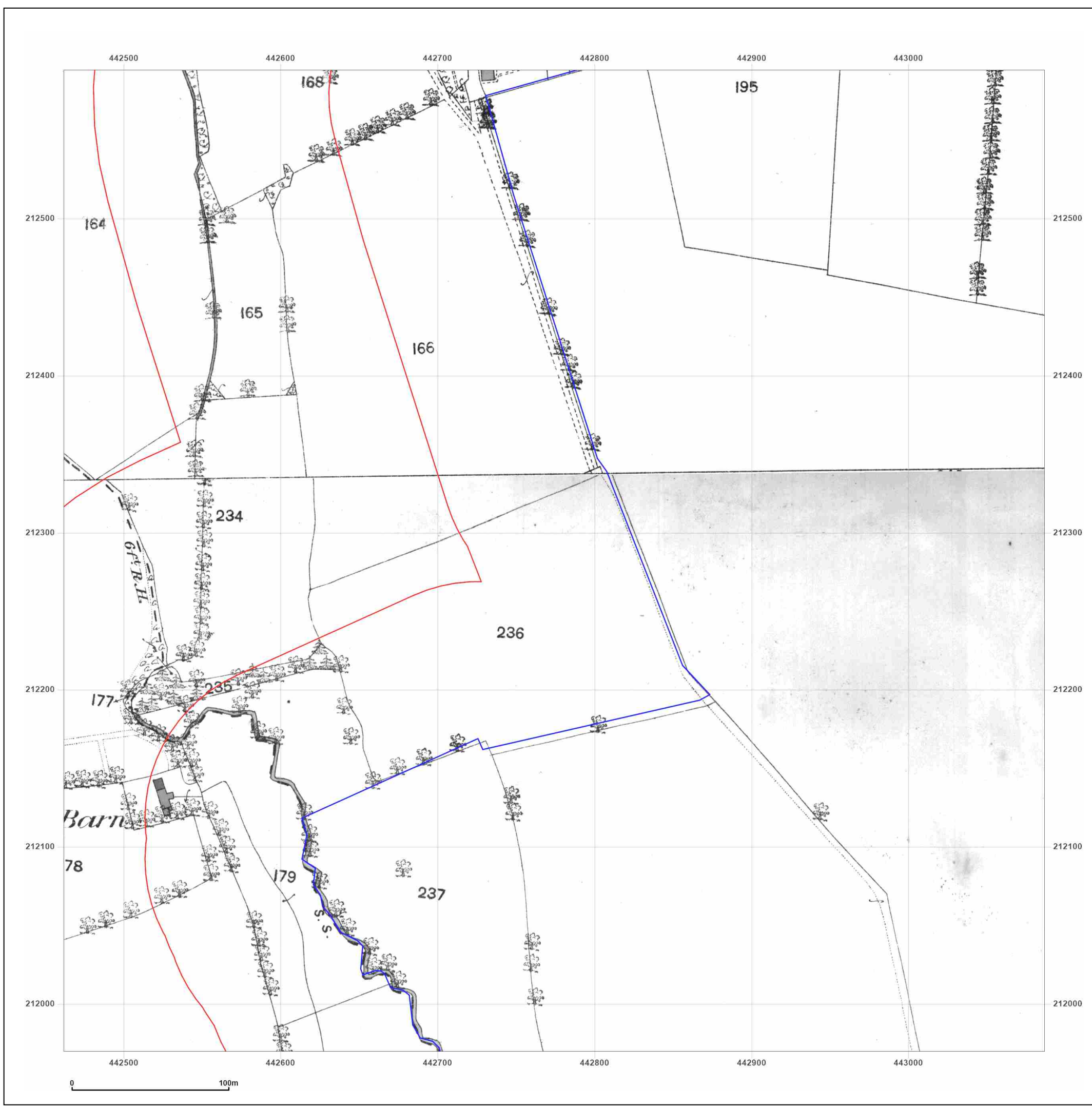


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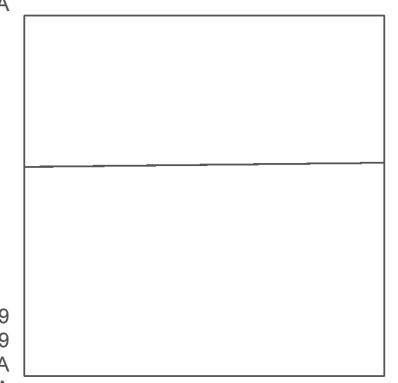
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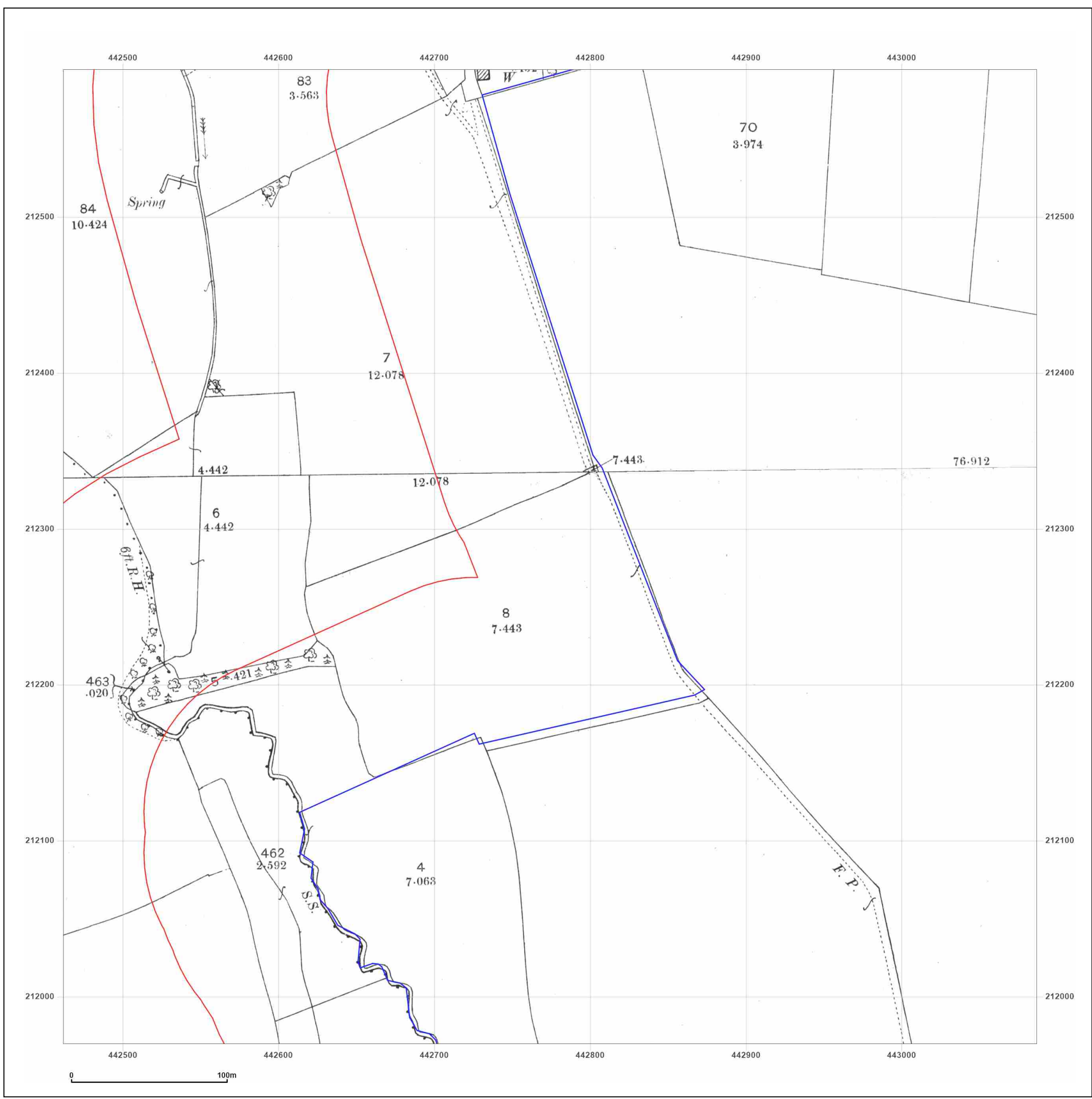


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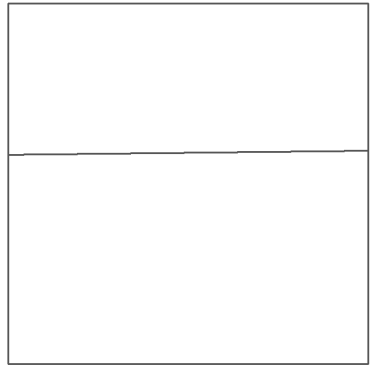
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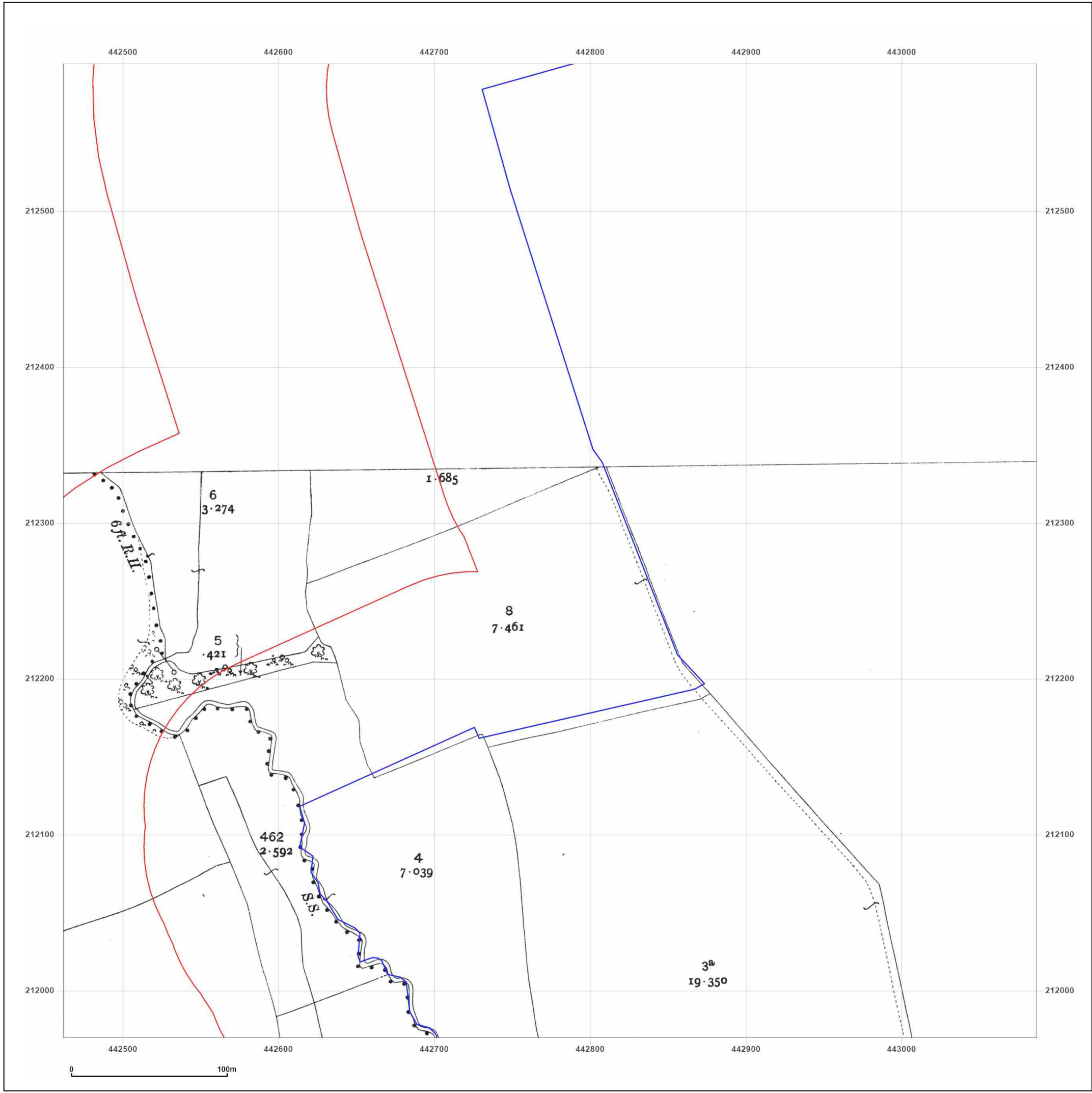


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Report Ref: GSIP-2022-12757-10509_LS_1_4
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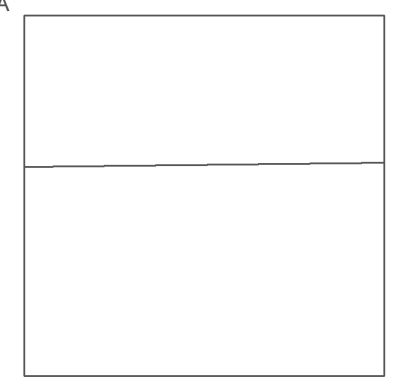
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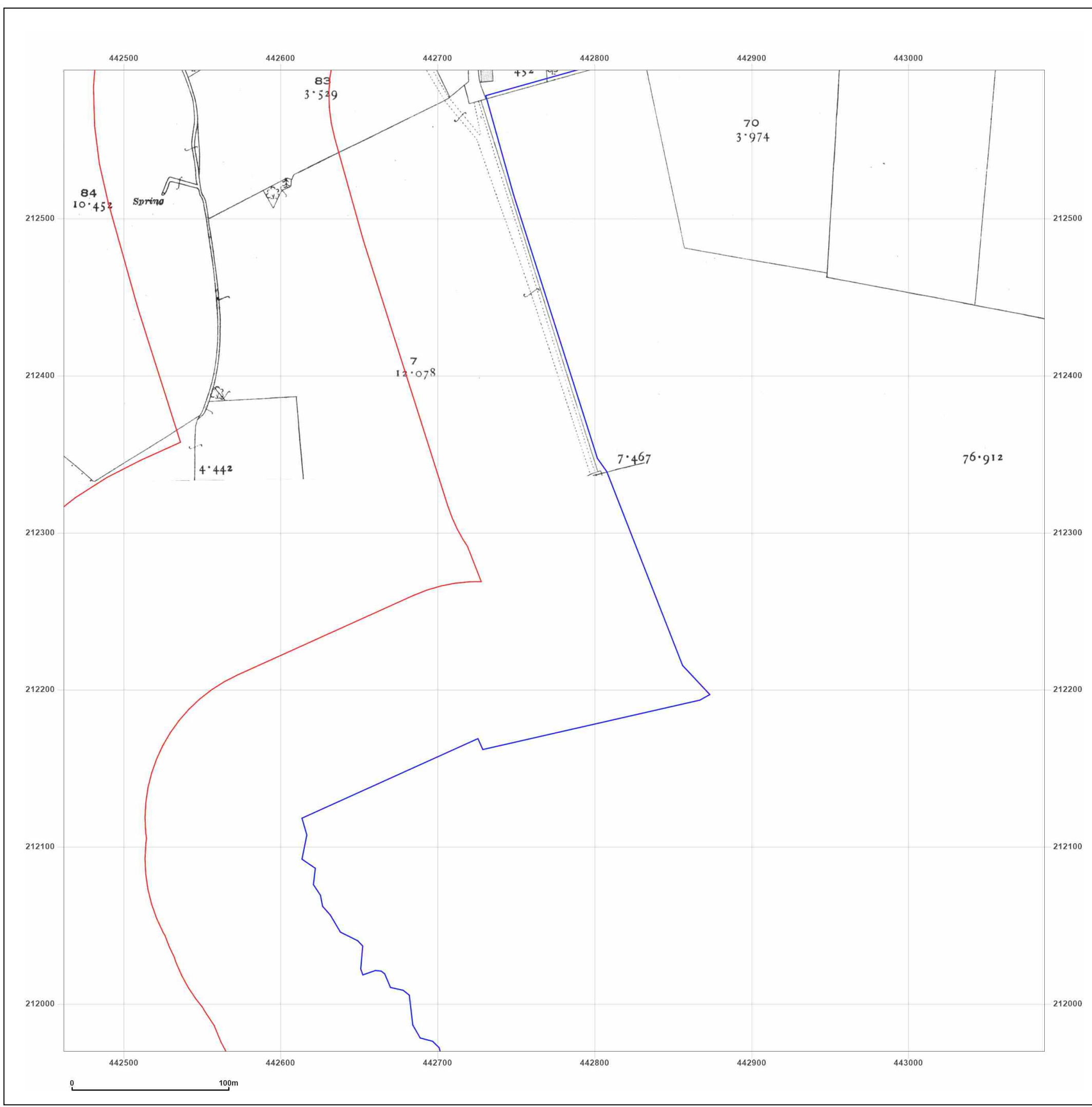


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Grid Ref: 442774, 212282

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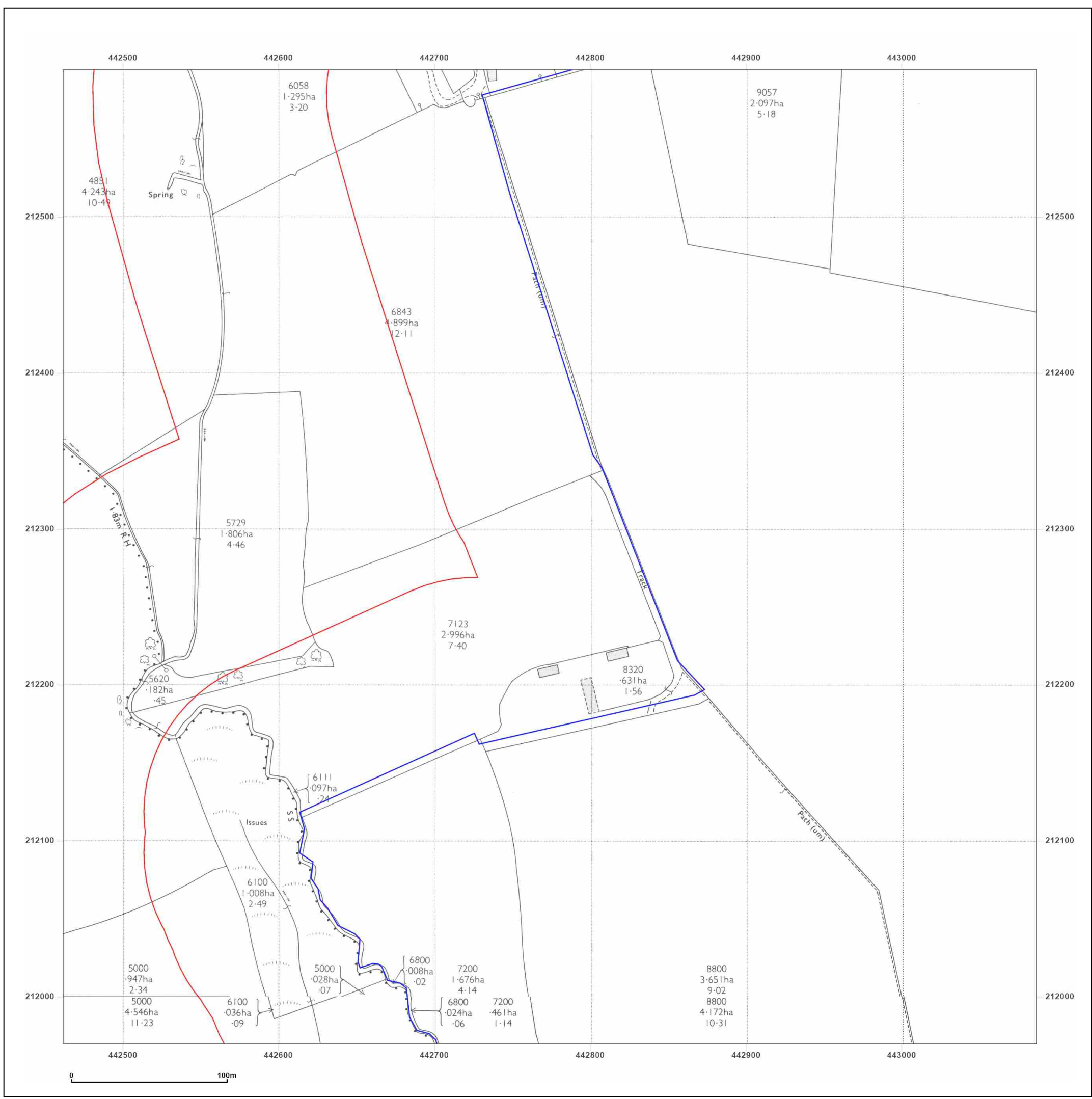


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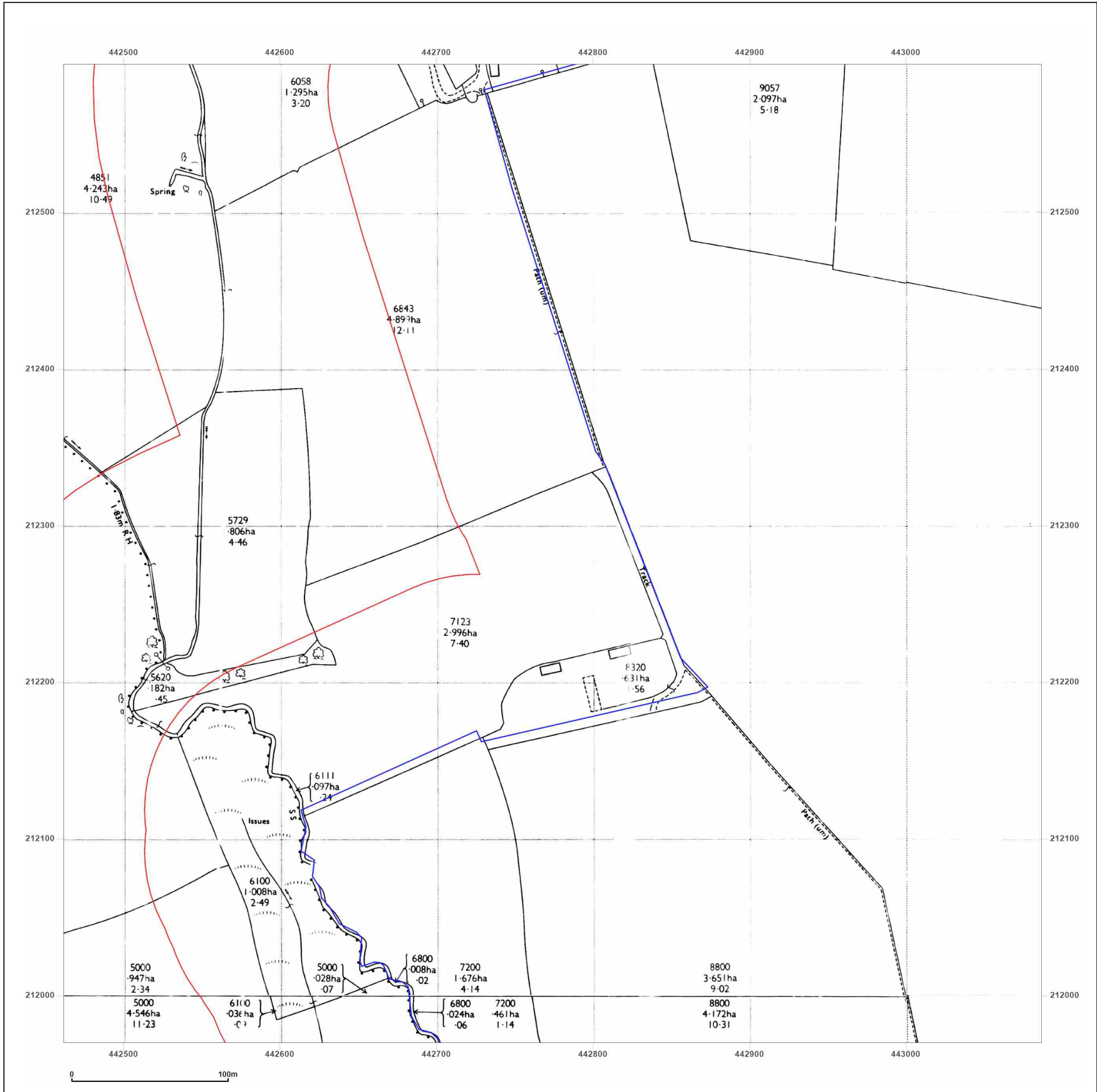


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Grid Ref: 442774, 212282

Map Name: National Grid

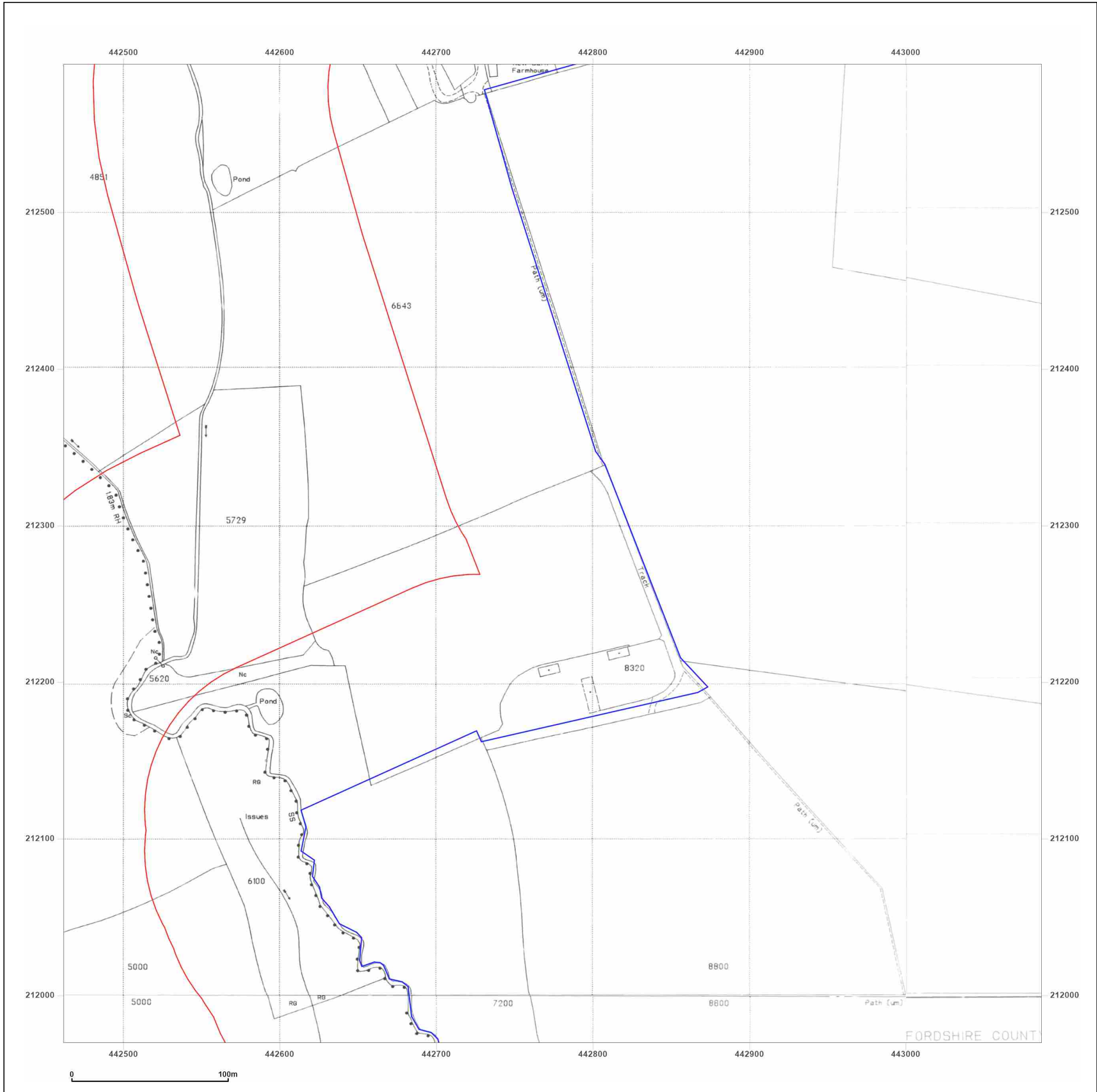
Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1994 Revised 1994 Edition N/A Copyright N/A Levelled N/A	Surveyed 1994 Revised 1994 Edition N/A Copyright N/A Levelled N/A
Surveyed 1994 Revised 1994 Edition N/A Copyright N/A Levelled N/A	Surveyed 1994 Revised 1994 Edition N/A Copyright N/A Levelled N/A



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Production date: 25 May 2022

Map legend available at:

Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_1_5
Grid Ref: 442774, 212907

Map Name: County Series

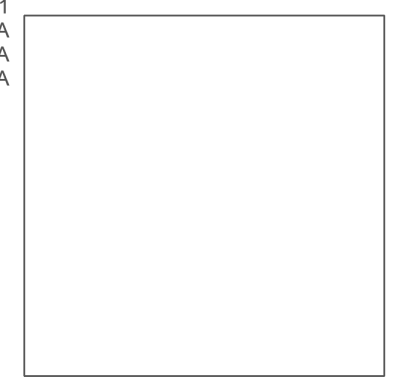
Map date: 1881

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1881
 Revised 1881
 Edition N/A
 Copyright N/A
 Levelled N/A

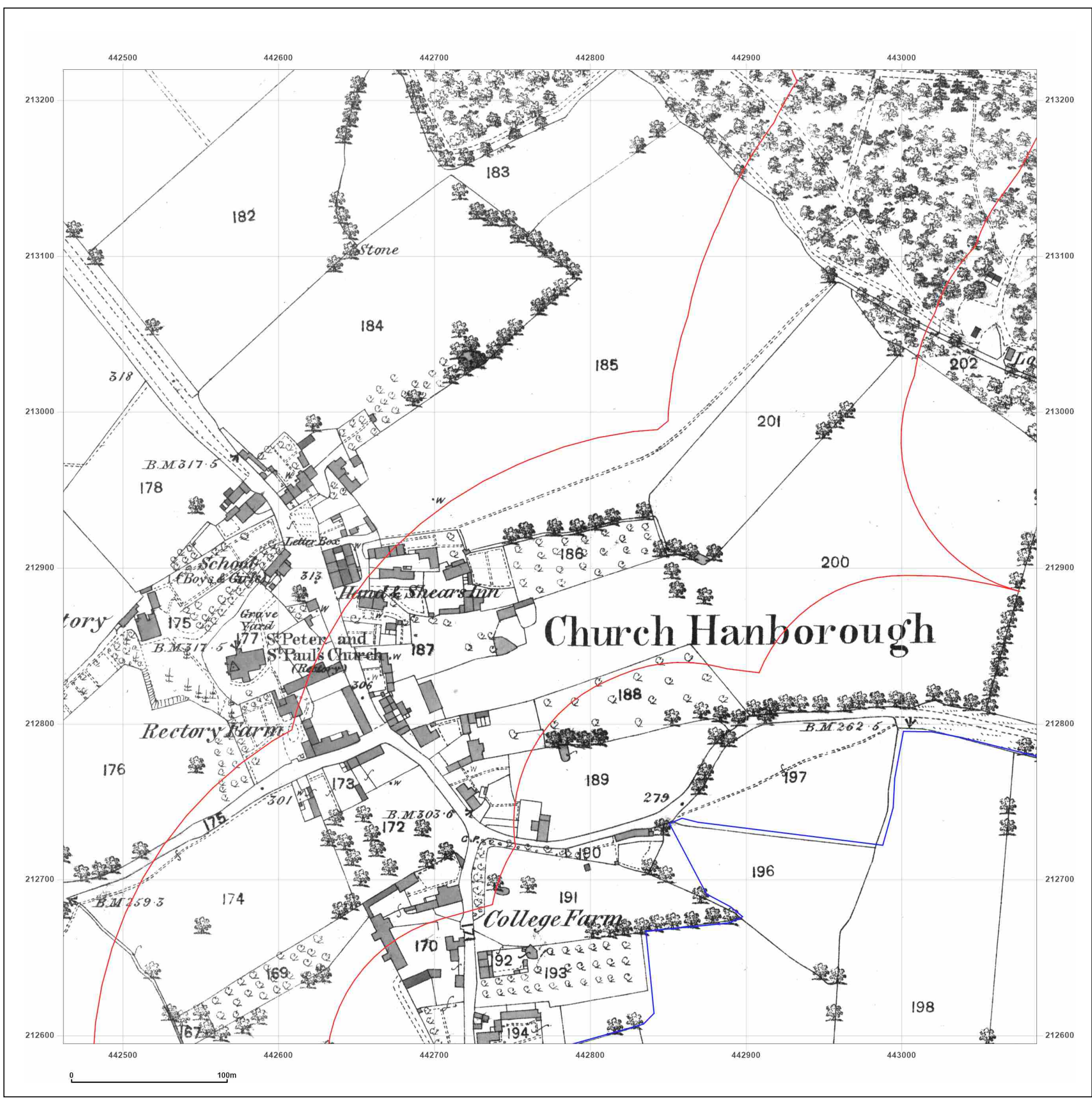


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_1_5
Grid Ref: 442774, 212907

Map Name: County Series

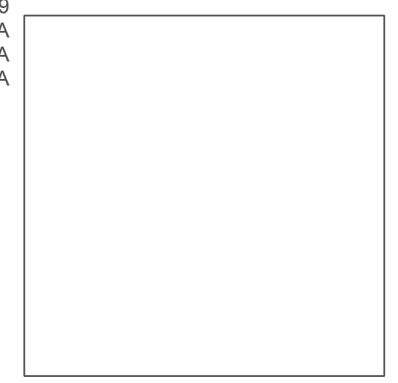
Map date: 1899

Scale: 1:2,500

Printed at: 1:2,500



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

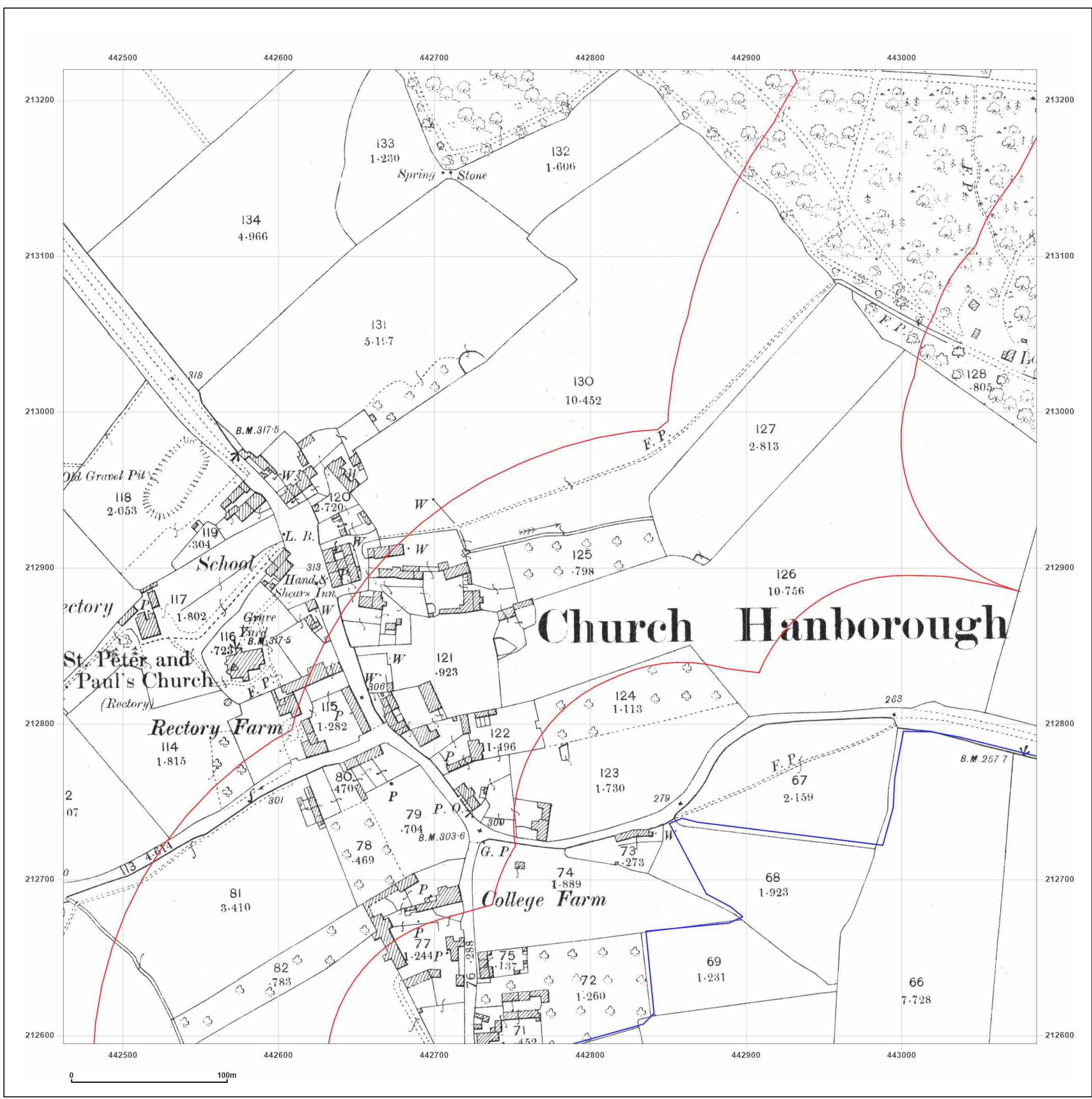


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Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_1_5
Grid Ref: 442774, 212907

Map Name: County Series

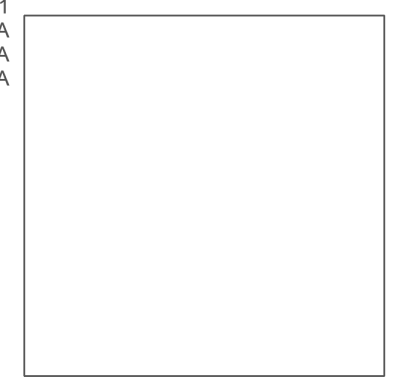
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Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1921
 Revised 1921
 Edition N/A
 Copyright N/A
 Levelled N/A

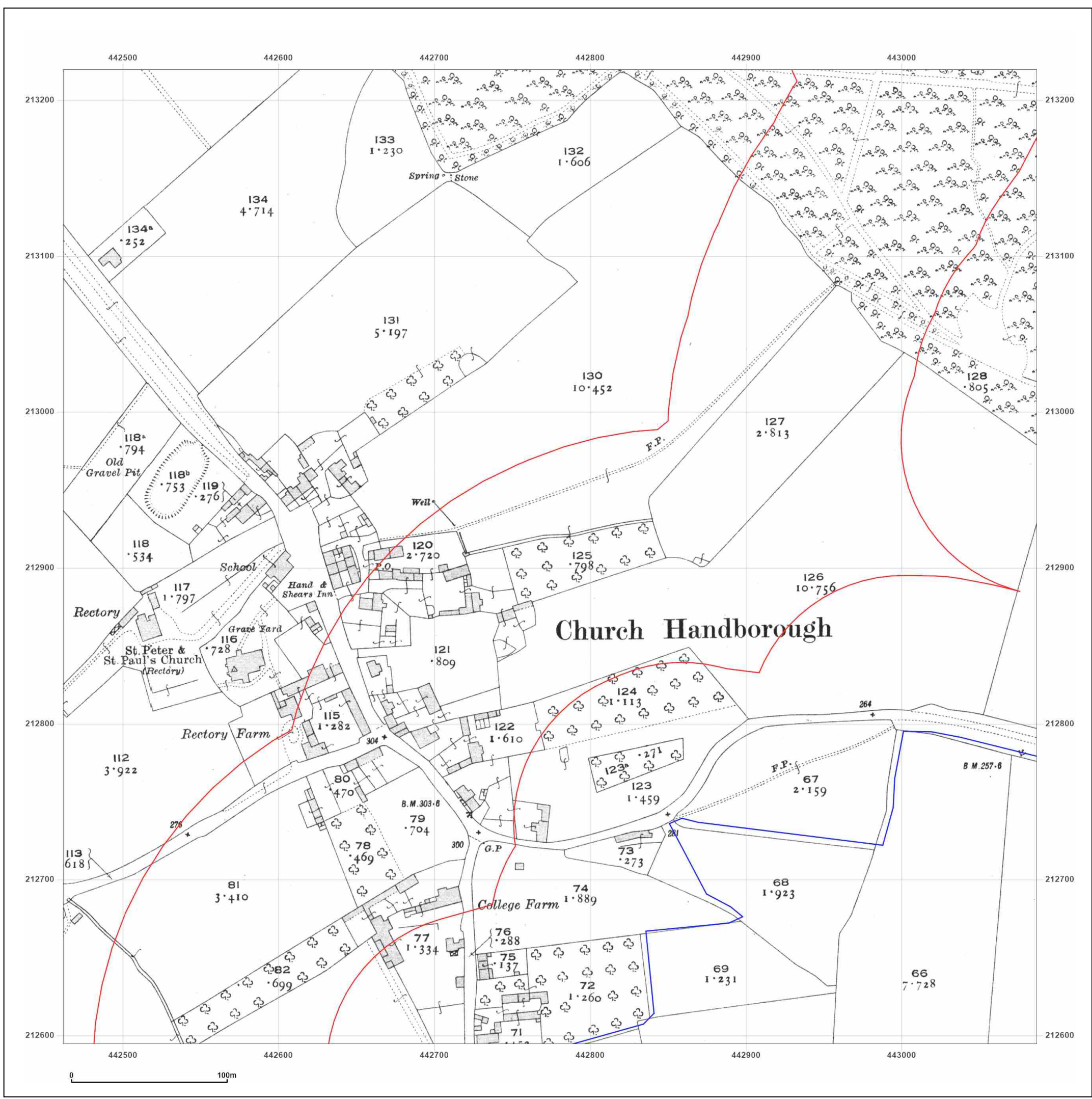


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

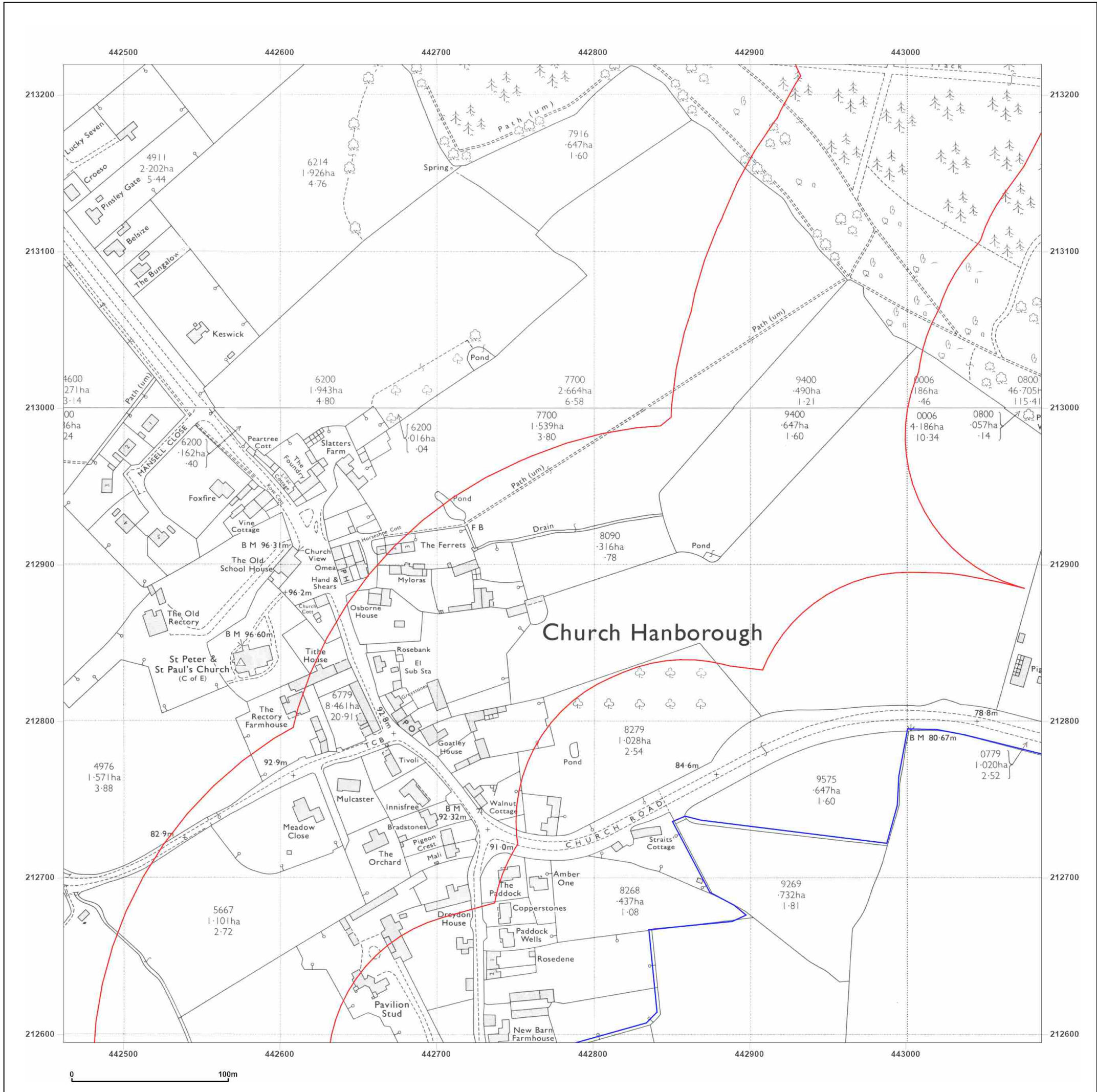
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Grid Ref: 442774, 212907

Map Name: National Grid

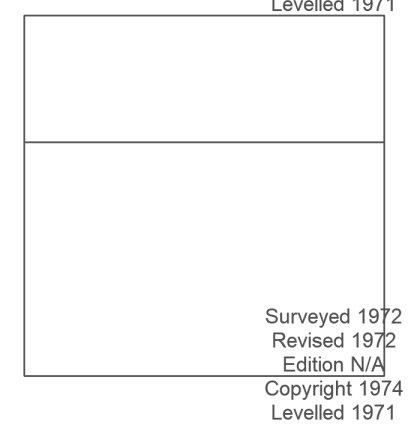
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Scale: 1:2,500

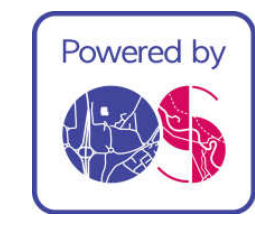
Printed at: 1:2,500



Surveyed 1972
 Revised 1972
 Edition N/A
 Copyright 1975
 Levelled 1971



Surveyed 1972
 Revised 1972
 Edition N/A
 Copyright 1974
 Levelled 1971



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Map legend available at:

Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_1_5
Grid Ref: 442774, 212907

Map Name: National Grid

Map date: 1974-1975

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 N/A
 Levelled N/A

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

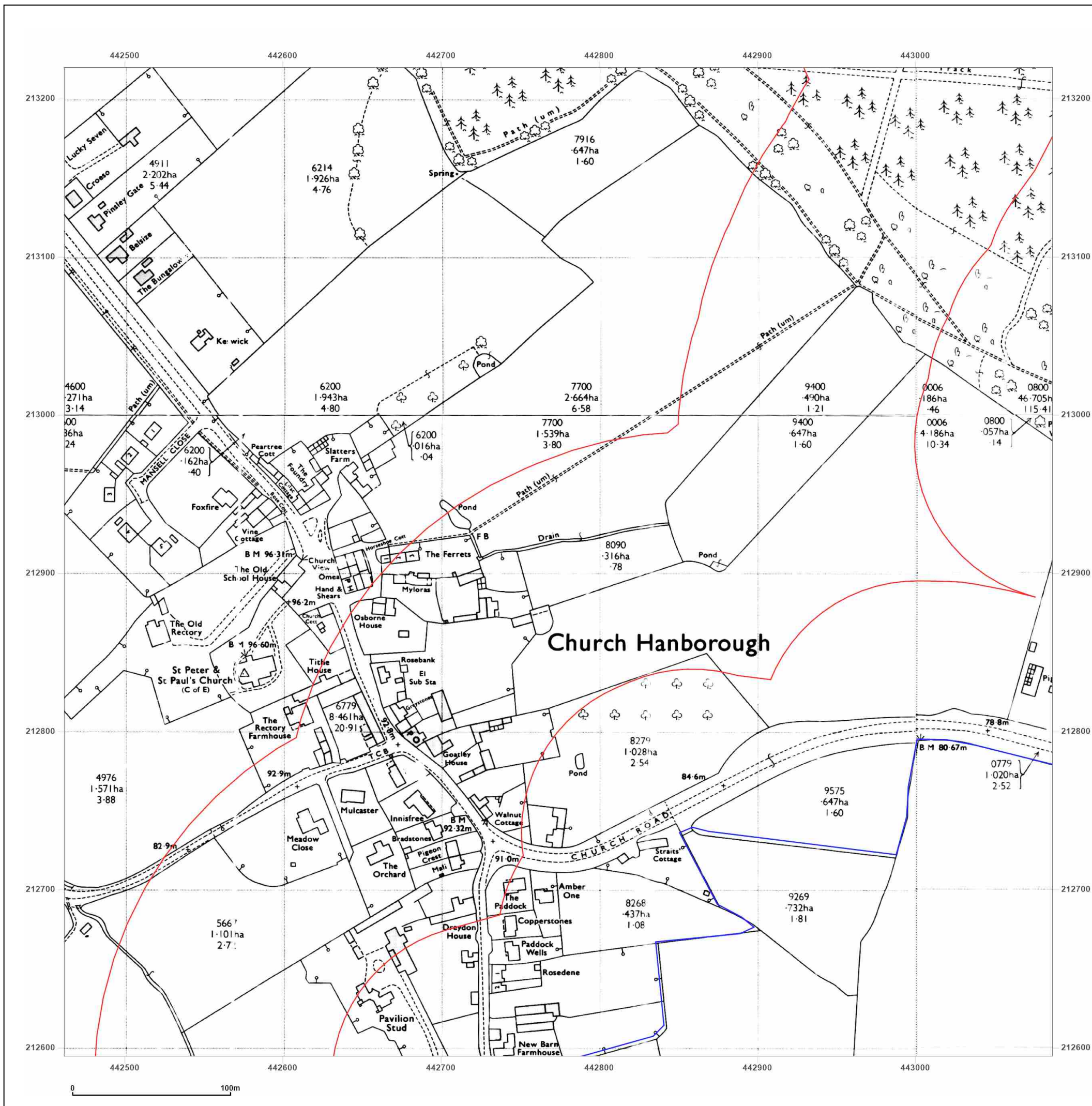


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Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_1_5
Grid Ref: 442774, 212907

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1994
 Levelled N/A

Surveyed 1994
 Revised 1994
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1994
 Revised 1994
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1994
 Revised 1994
 Edition N/A
 Copyright N/A
 Levelled N/A

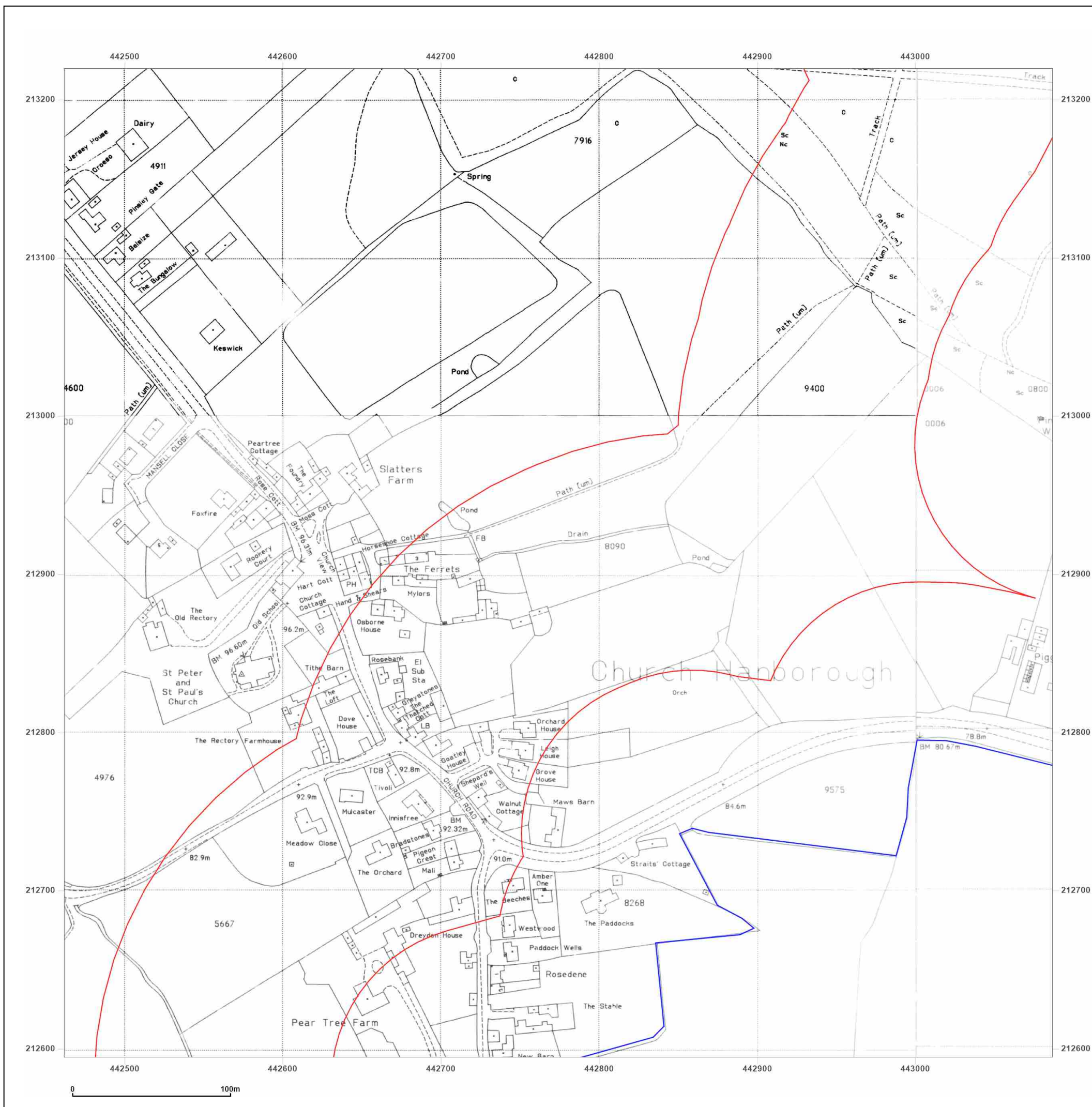


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

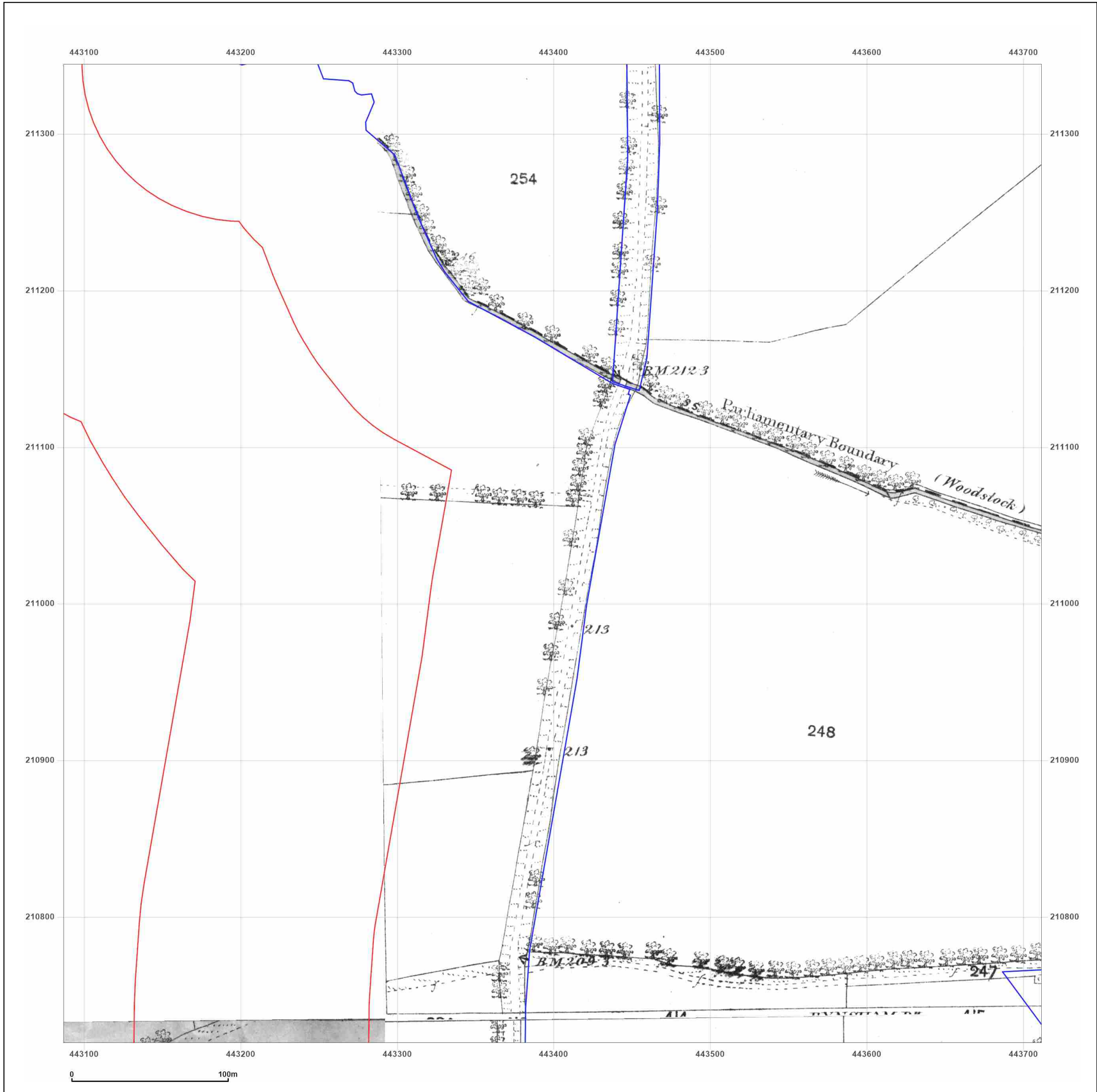
Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_2
Grid Ref: 443399, 211032

Map Name: County Series

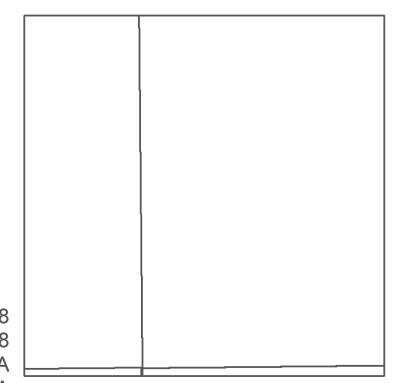
Map date: 1876-1880

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1880
 Revised 1880
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1878
 Revised 1878
 Edition N/A
 Copyright N/A
 Levelled N/A

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



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Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_2
Grid Ref: 443399, 211032

Map Name: County Series

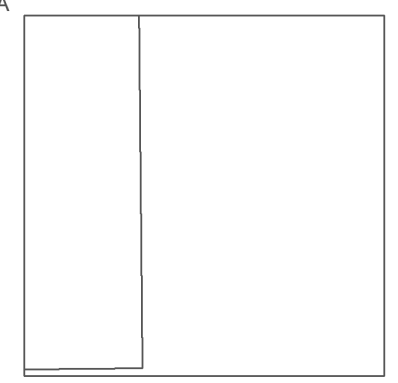
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Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1882
 Revised 1882
 Edition N/A
 Copyright N/A
 Levelled N/A

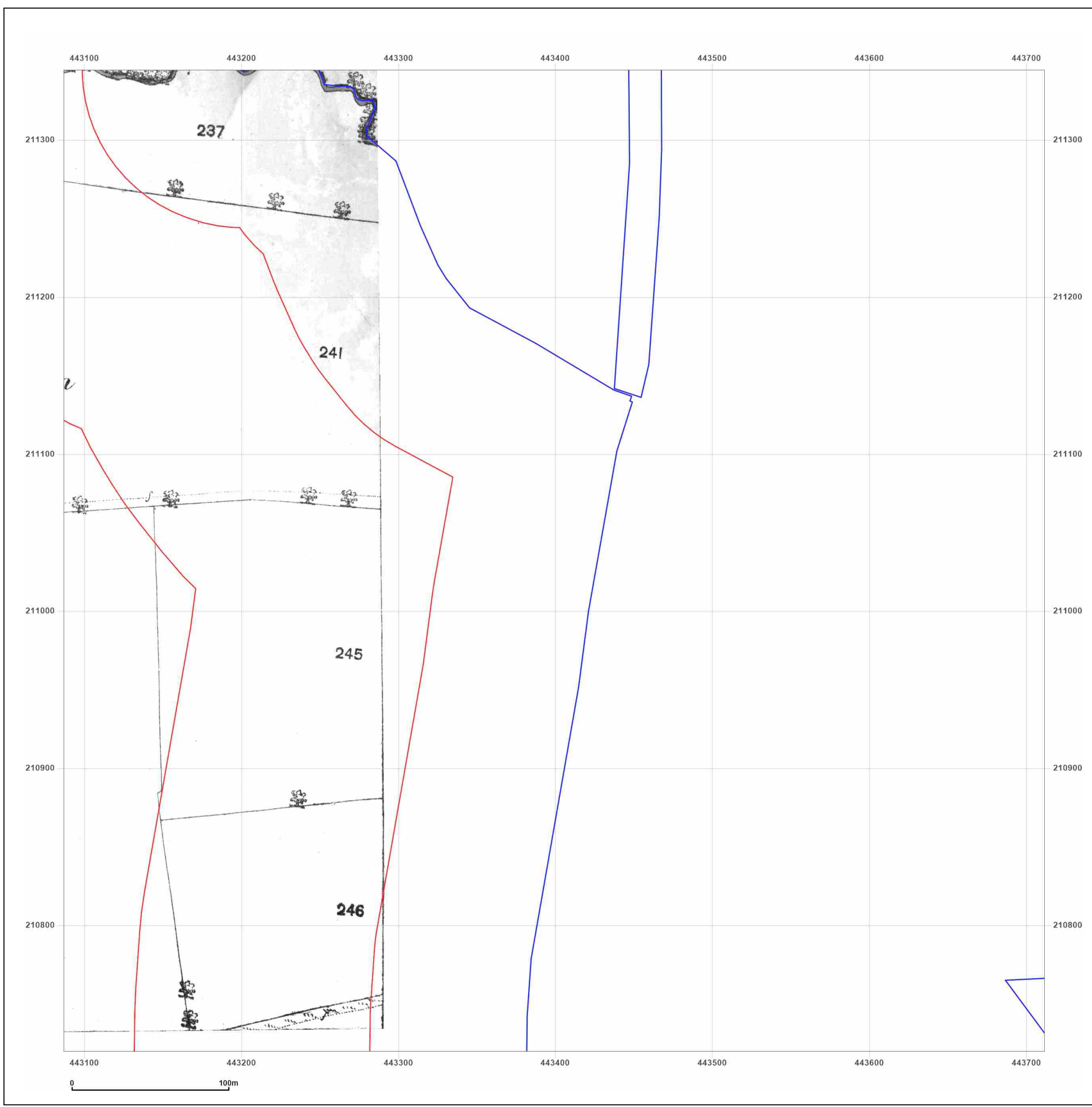


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Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_2
Grid Ref: 443399, 211032

Map Name: County Series

Map date: 1899

Scale: 1:2,500

Printed at: 1:2,500



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

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

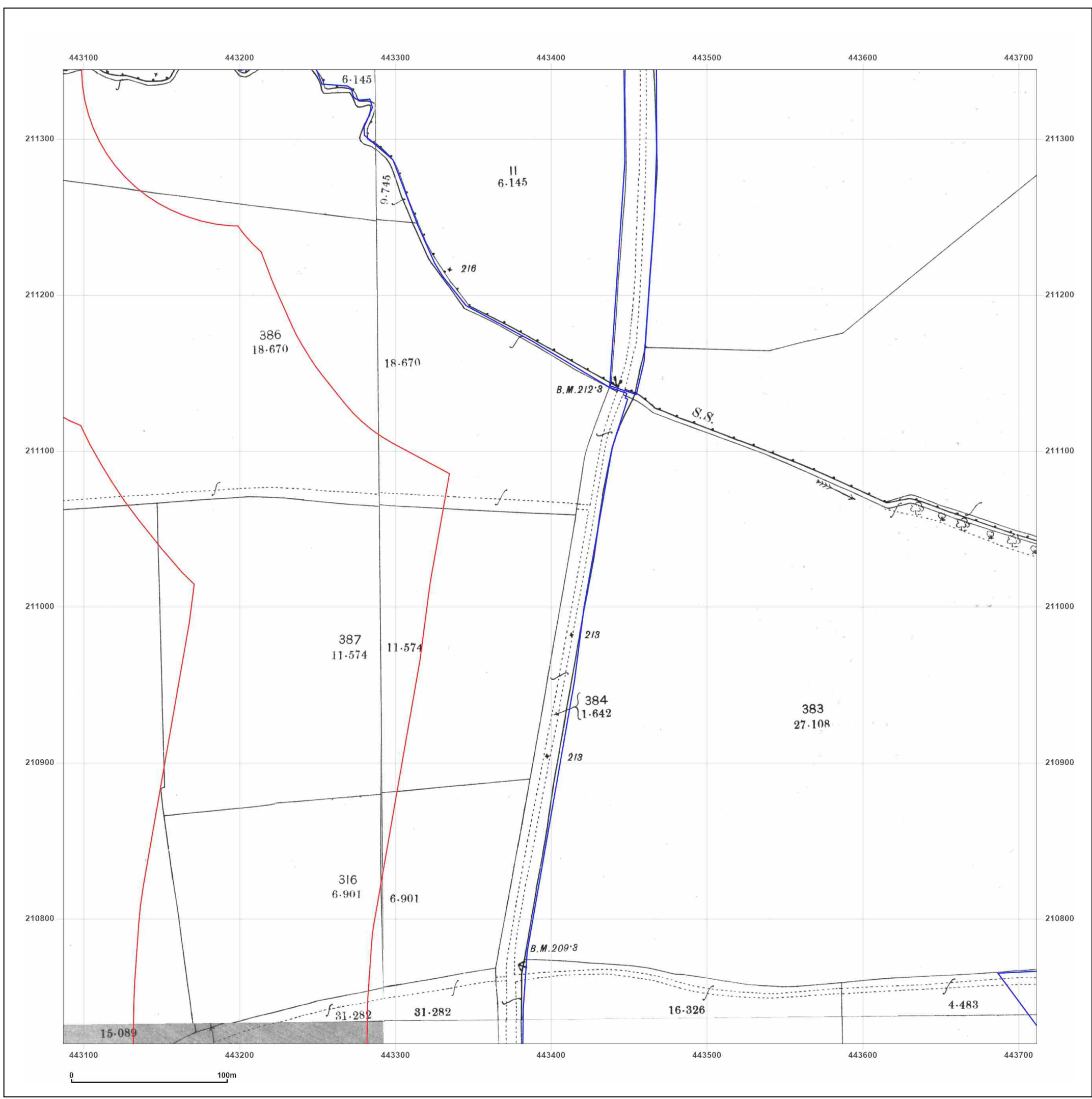


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_2
Grid Ref: 443399, 211032

Map Name: County Series

Map date: 1910-1913

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed 1913
 Revised 1913
 Edition N/A
 Copyright N/A
 Levelled N/A

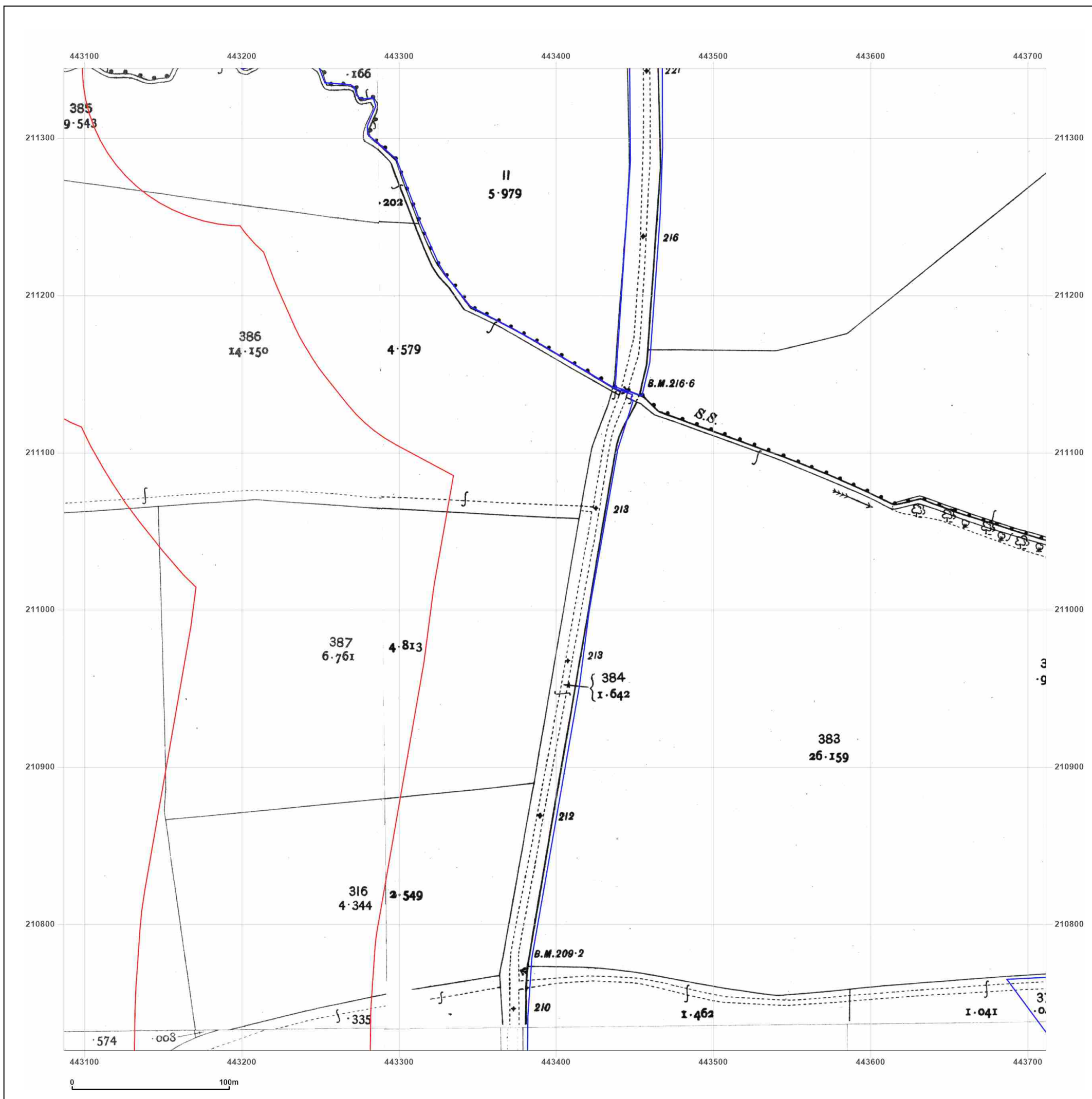


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_2
Grid Ref: 443399, 211032

Map Name: National Grid

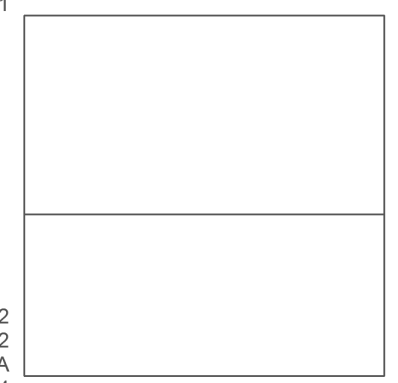
Map date: 1974

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1972
 Revised 1972
 Edition N/A
 Copyright 1974
 Levelled 1971



Surveyed 1972
 Revised 1972
 Edition N/A
 Copyright 1974
 Levelled 1971

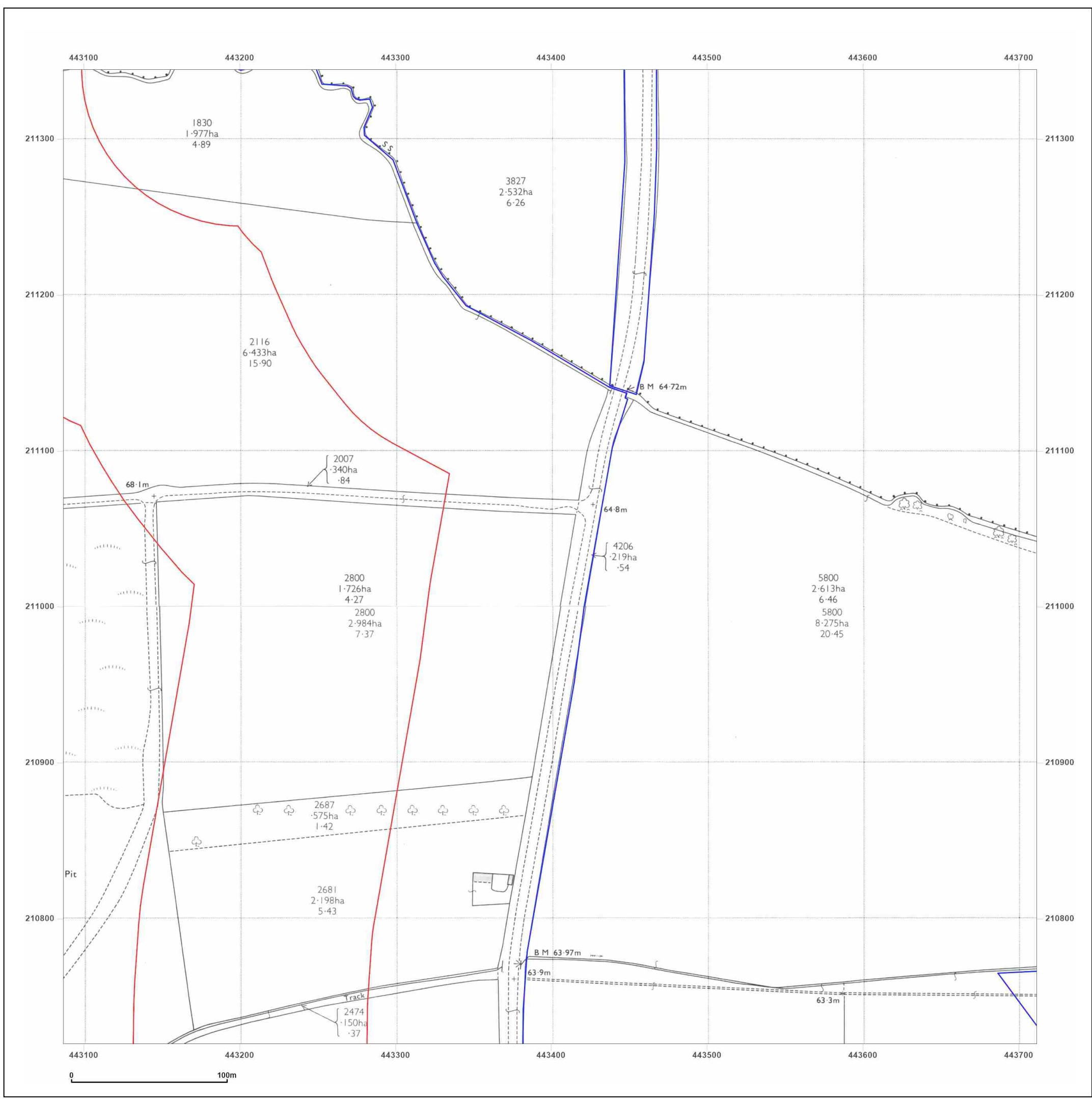


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Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_2
Grid Ref: 443399, 211032

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

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

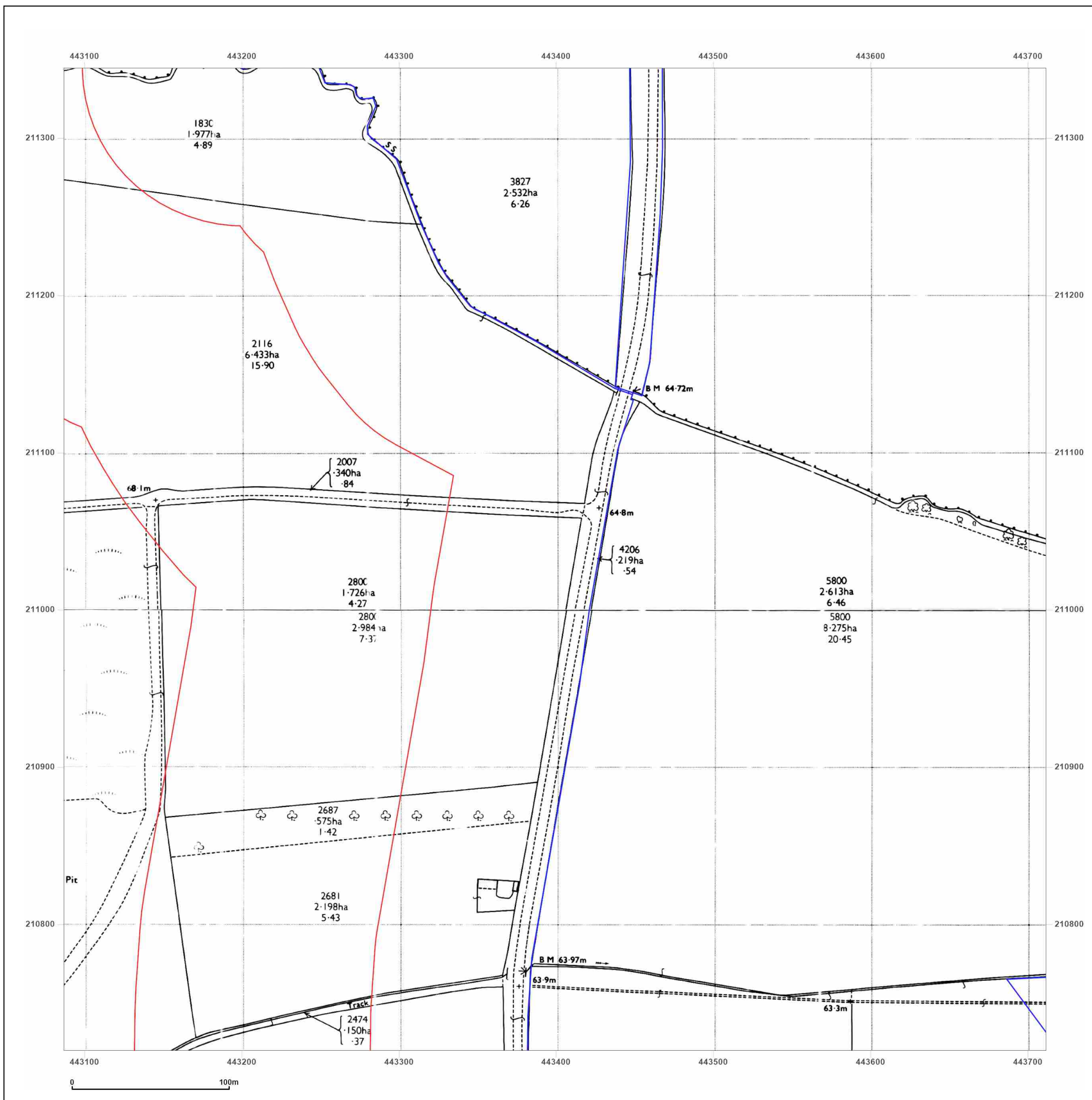


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Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_2
Grid Ref: 443399, 211032

Map Name: National Grid

Map date: 1985

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1971
 Revised 1985
 Edition N/A
 Copyright 1985
 Levelled 1971

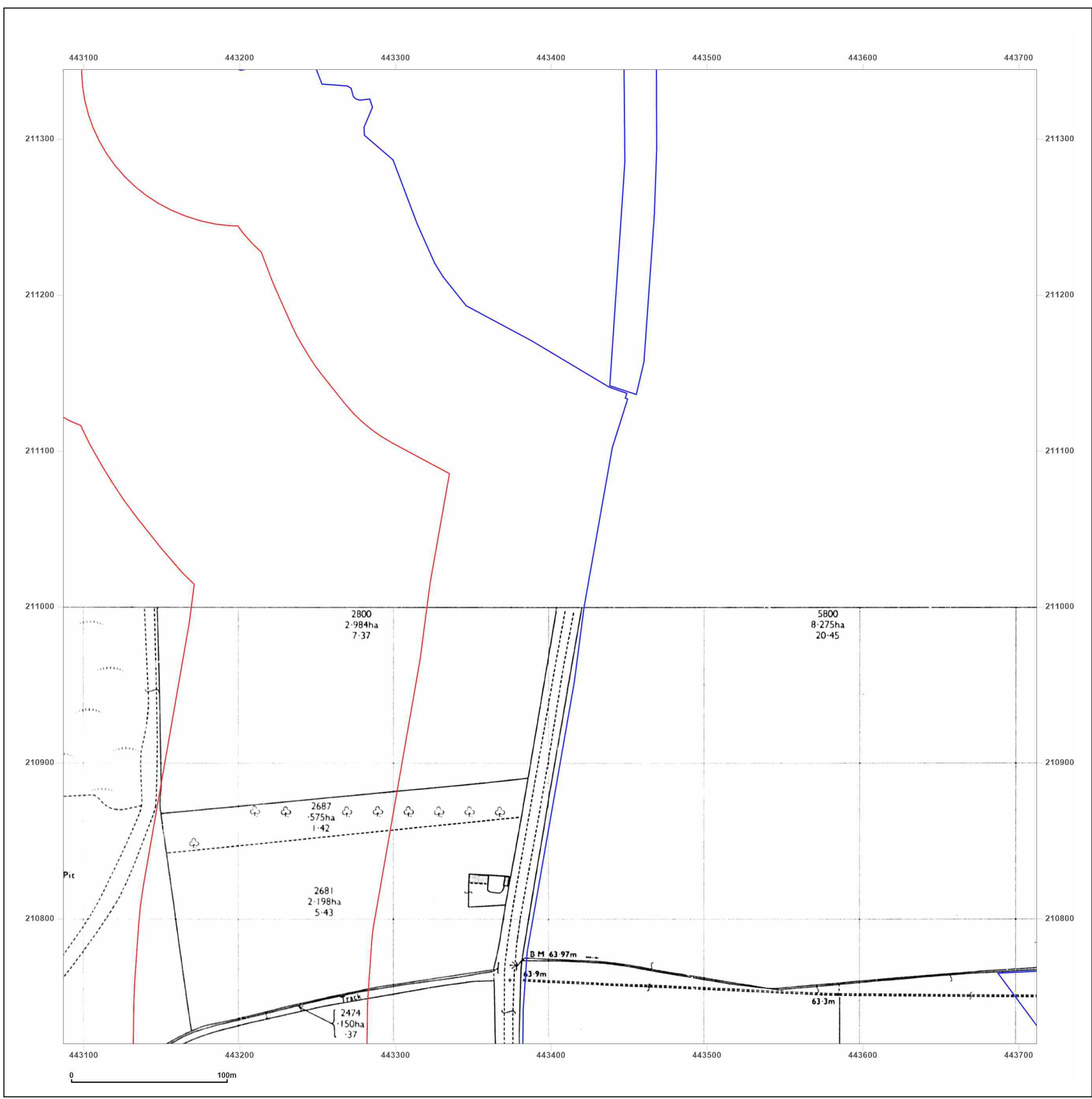


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_2
Grid Ref: 443399, 211032

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1994
 Revised 1994
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1994
 Revised 1994
 Edition N/A
 Copyright N/A
 Levelled N/A

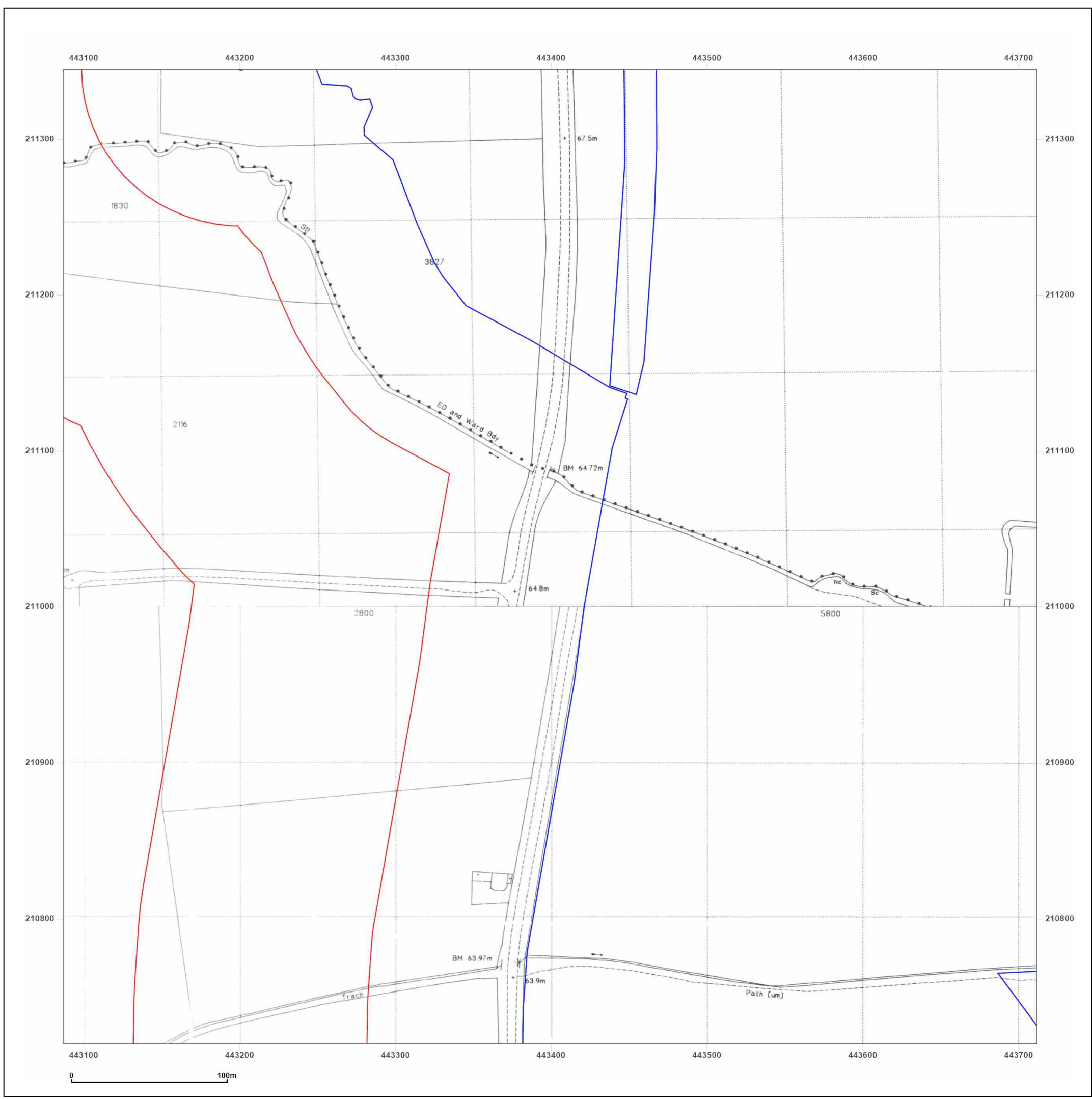


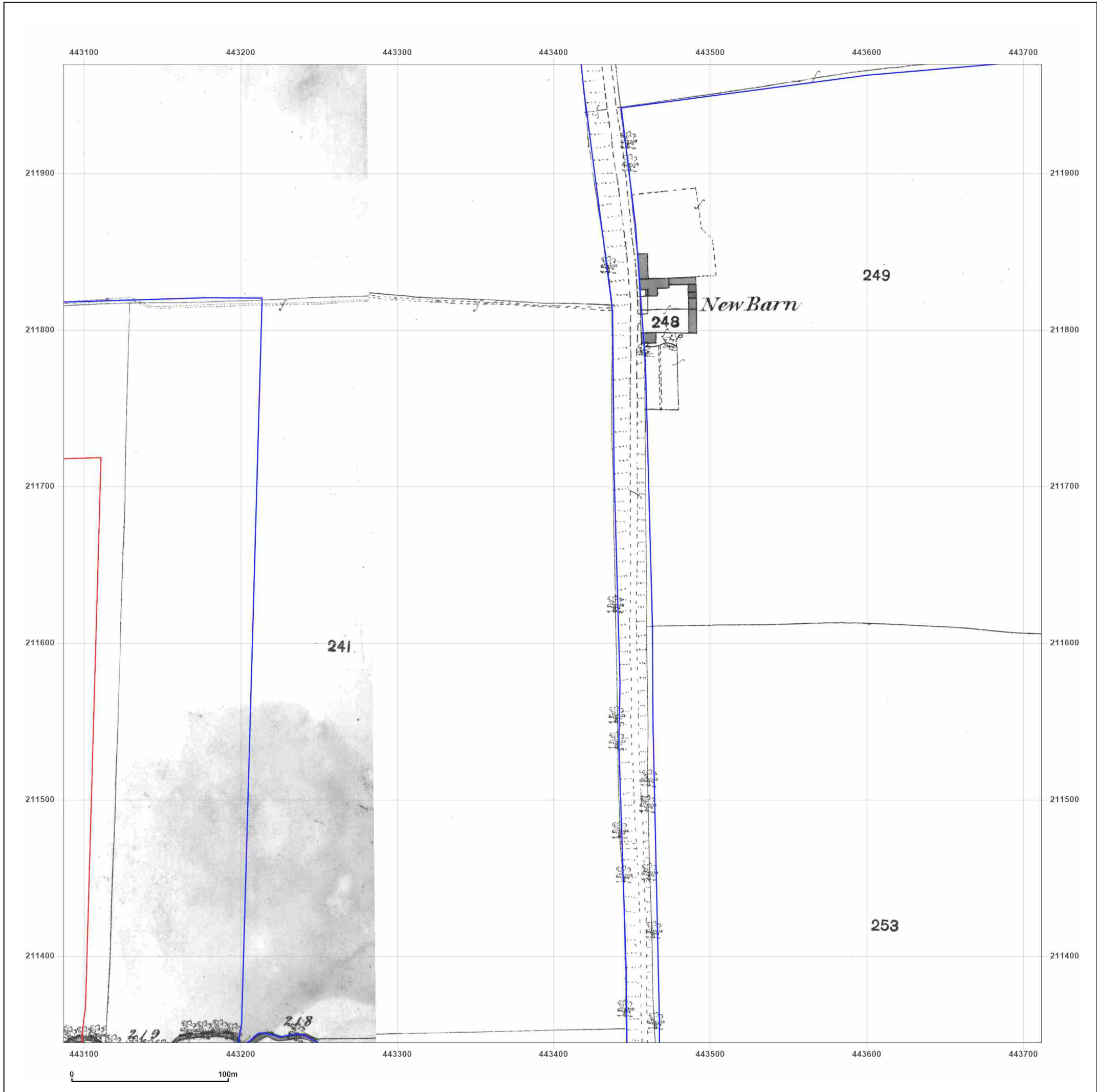
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Site Details:
 Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_3
Grid Ref: 443399, 211657

Map Name: County Series
Map date: 1880-1882
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1882 Revised 1882 Edition N/A Copyright N/A Levelled N/A		Surveyed 1880 Revised 1880 Edition N/A Copyright N/A Levelled N/A
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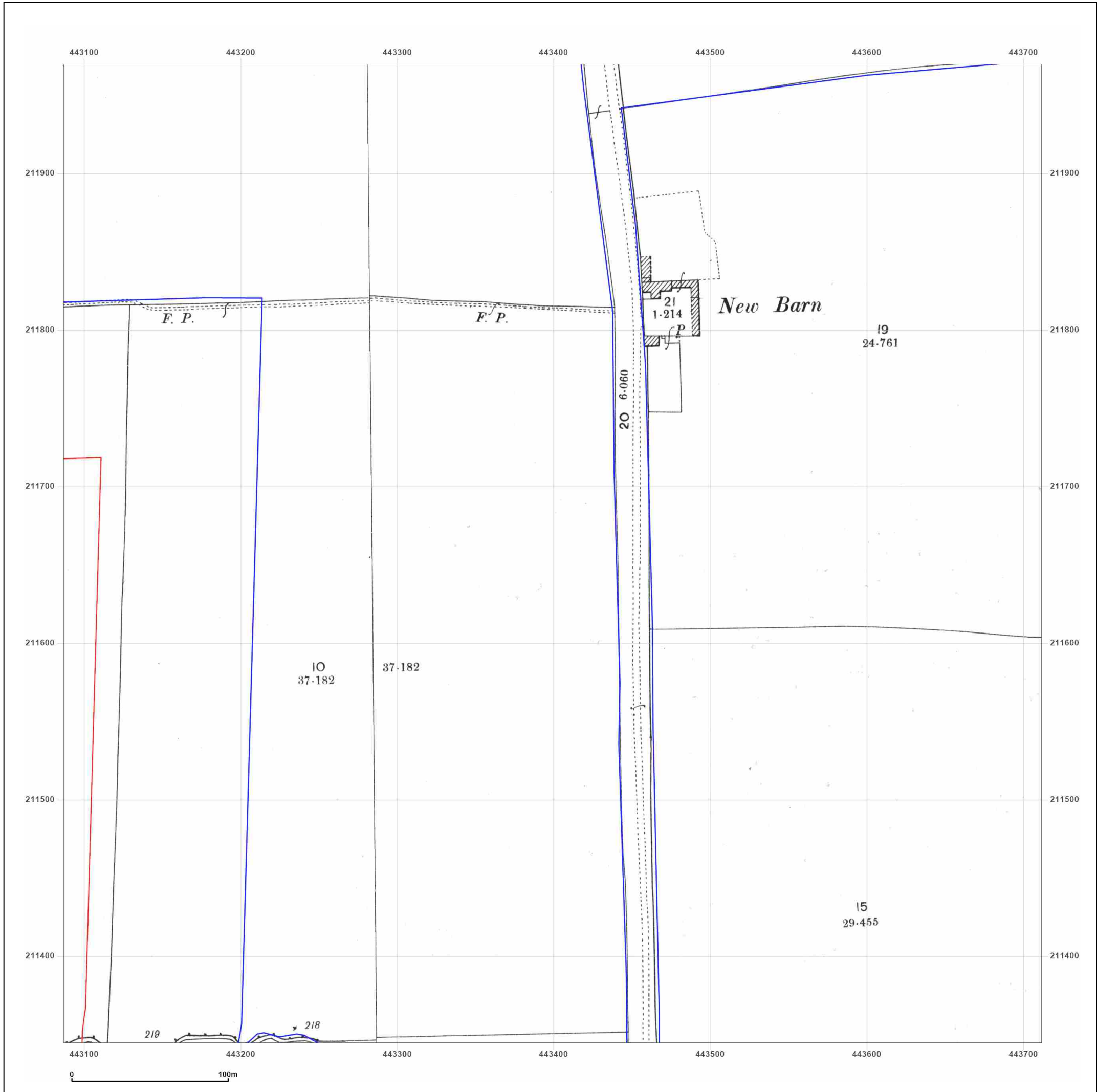


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Production date: 25 May 2022


Map legend available at: XXXXXXXXXX

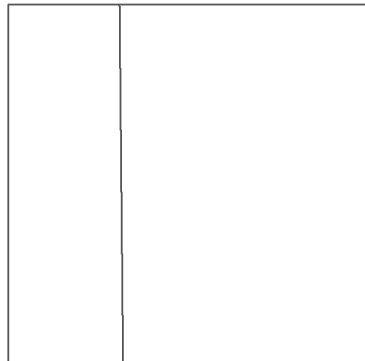


Site Details:
Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_3
Grid Ref: 443399, 211657

Map Name: County Series
Map date: 1899
Scale: 1:2,500
Printed at: 1:2,500



<p>Surveyed 1899 Revised 1899 Edition N/A Copyright N/A Levelled N/A</p>		<p>Surveyed 1899 Revised 1899 Edition N/A Copyright N/A Levelled N/A</p>
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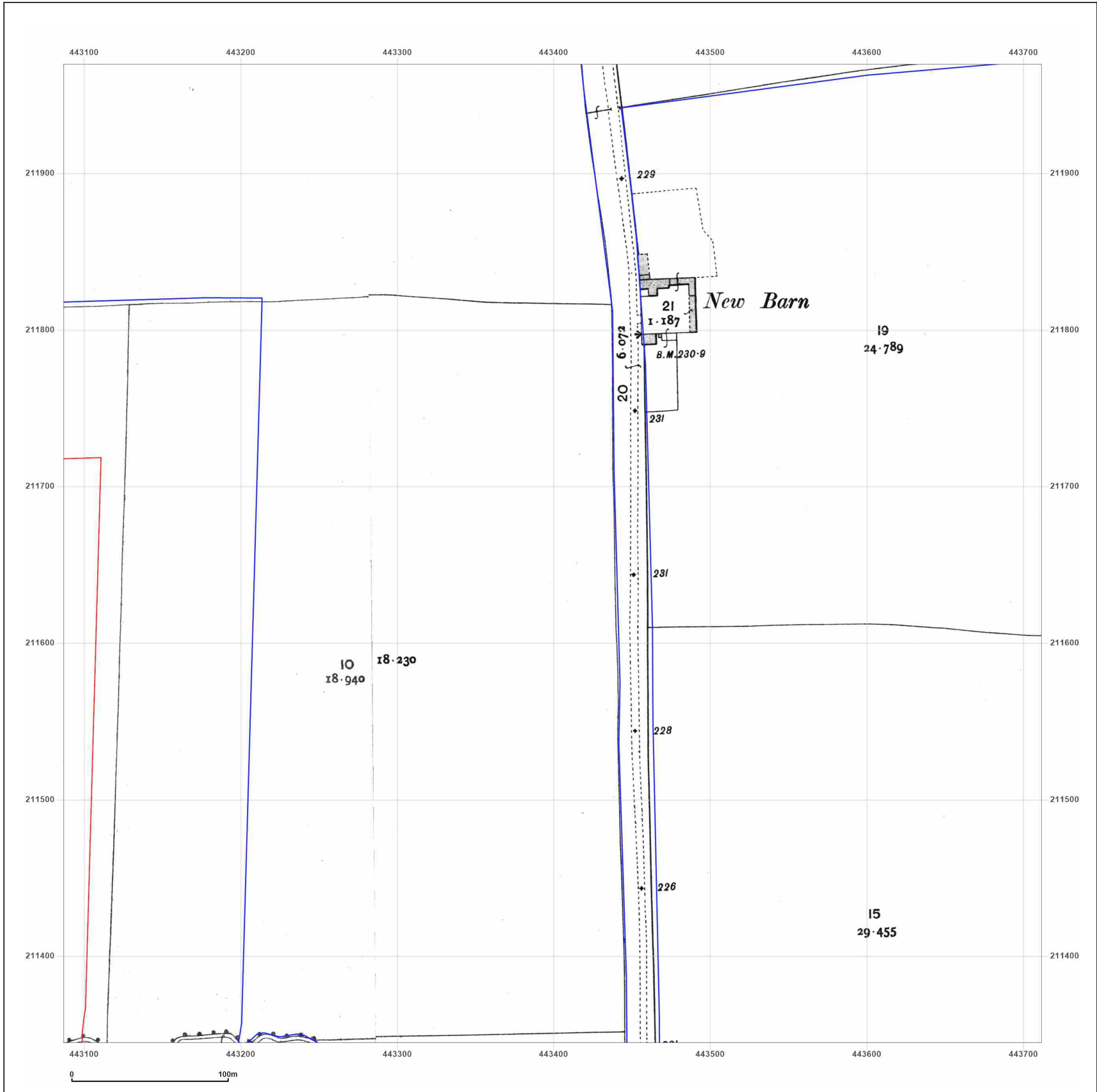


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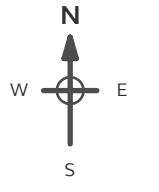
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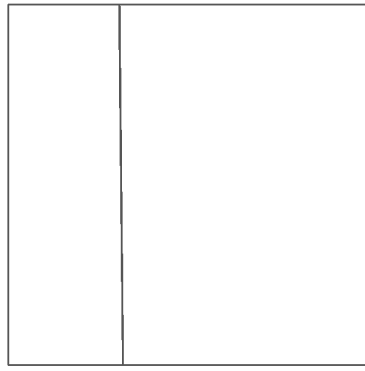


Site Details:
Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_3
Grid Ref: 443399, 211657

Map Name: County Series
Map date: 1910-1911
Scale: 1:2,500
Printed at: 1:2,500



<p>Surveyed 1910 Revised 1910 Edition N/A Copyright N/A Levelled N/A</p>		<p>Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A</p>
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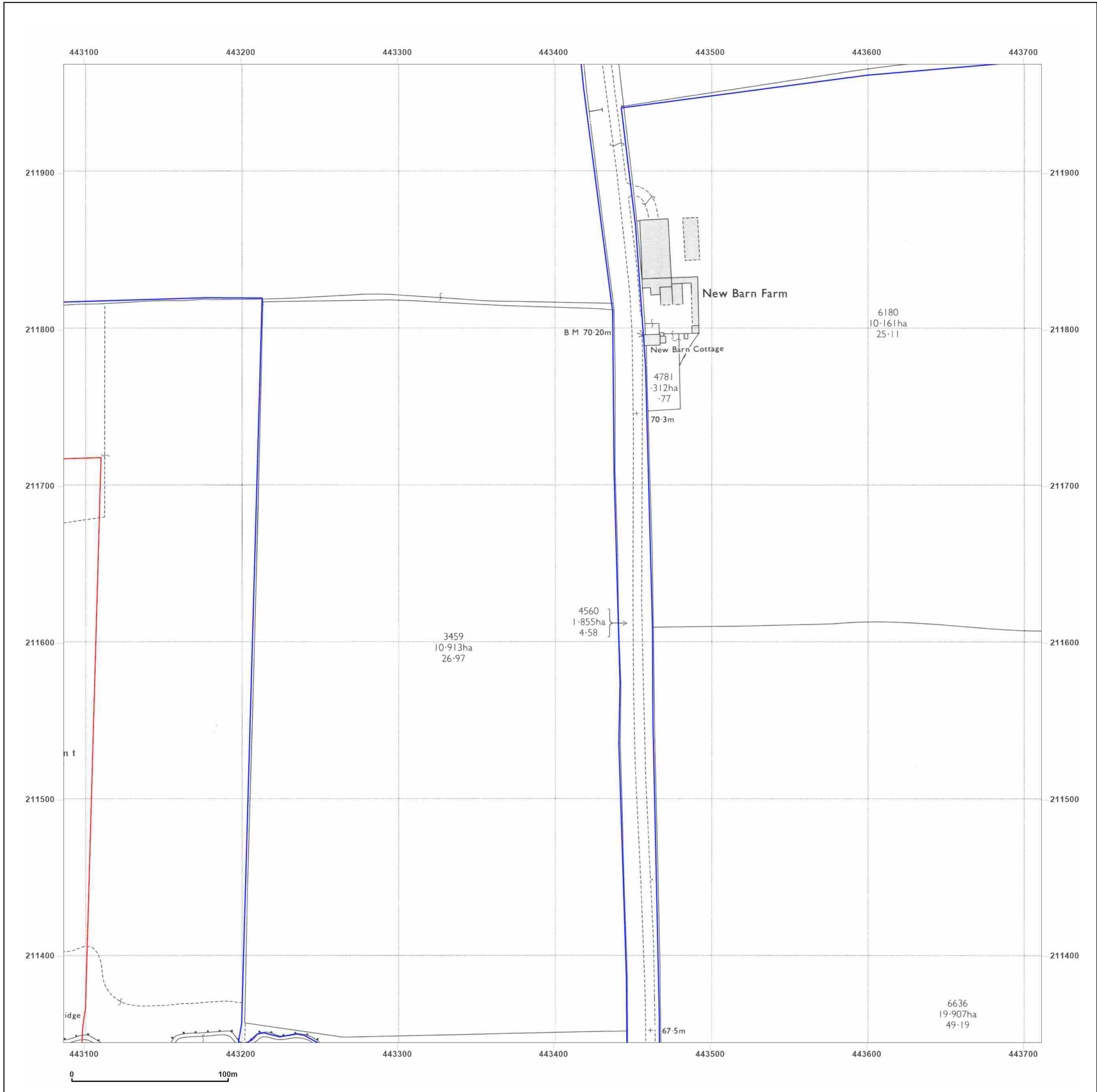


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Production date: 25 May 2022

Map legend available at: 

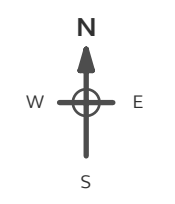


Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_3
Grid Ref: 443399, 211657

Map Name: National Grid
Map date: 1974
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1972
 Revised 1972
 Edition N/A
 Copyright 1974
 Levelled 1971

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Map legend available at: 

Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_3
Grid Ref: 443399, 211657

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

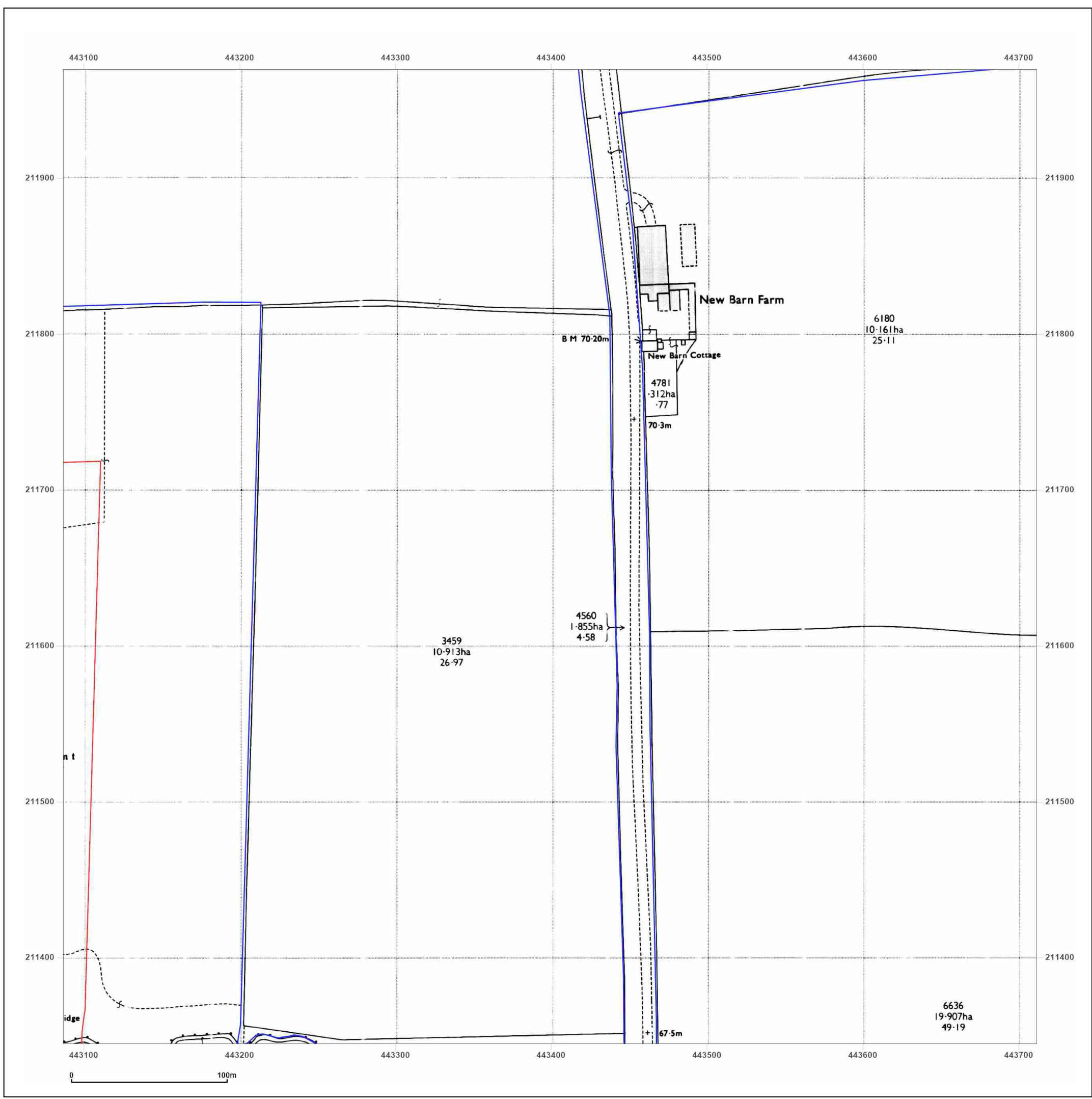


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_3
Grid Ref: 443399, 211657

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1994
 Revised 1994
 Edition N/A
 Copyright N/A
 Levelled N/A

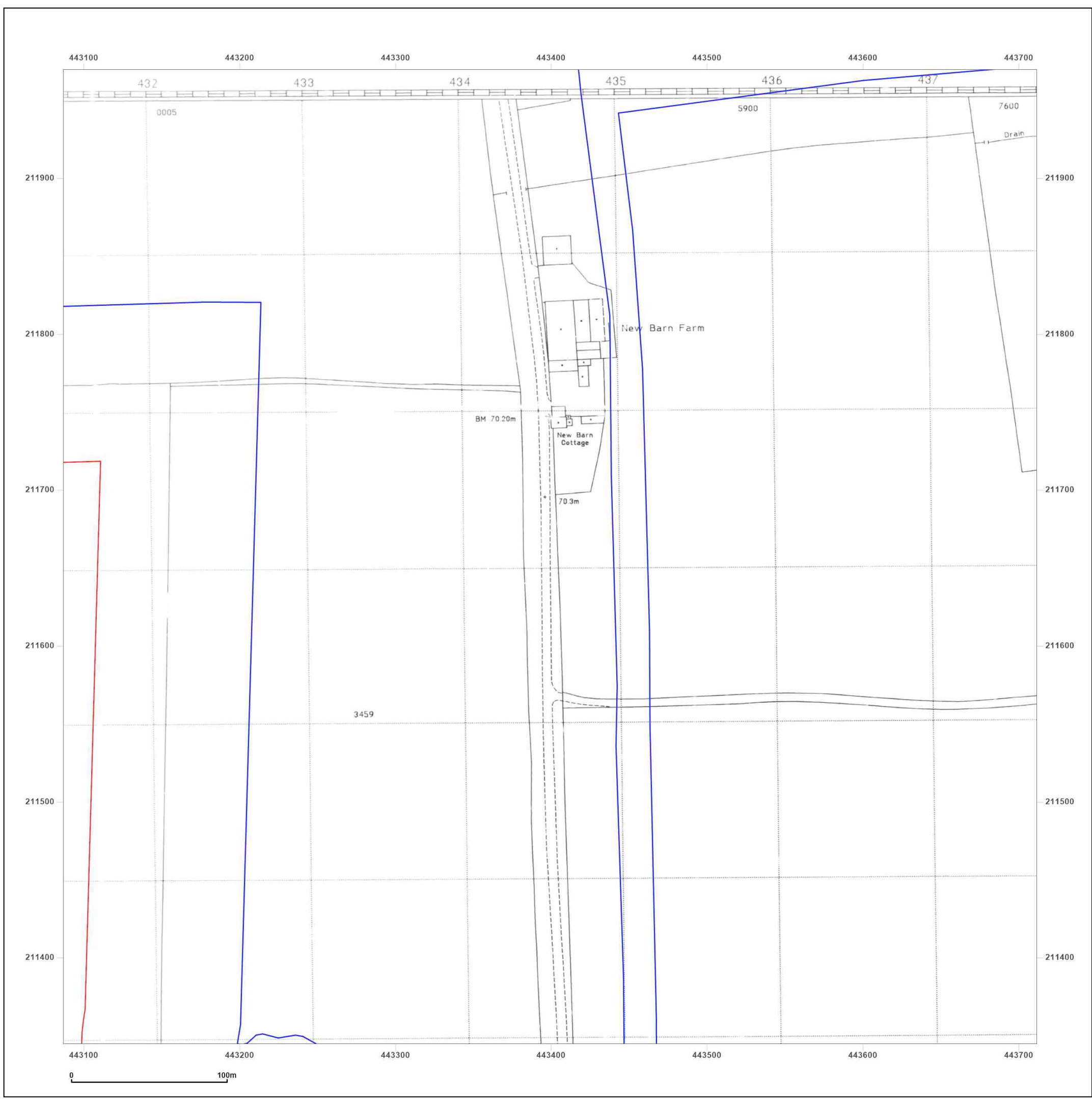


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_4
Grid Ref: 443399, 212282

Map Name: County Series

Map date: 1880-1882

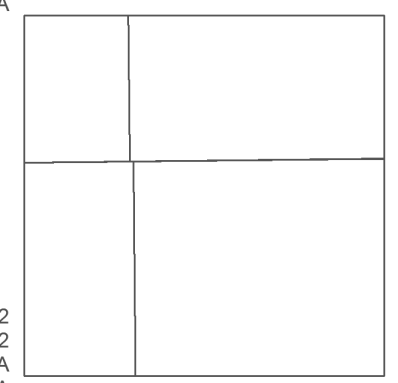
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1881
 Revised 1881
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1881
 Revised 1881
 Edition N/A
 Copyright N/A
 Levelled N/A



Surveyed 1882
 Revised 1882
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1880
 Revised 1880
 Edition N/A
 Copyright N/A
 Levelled N/A

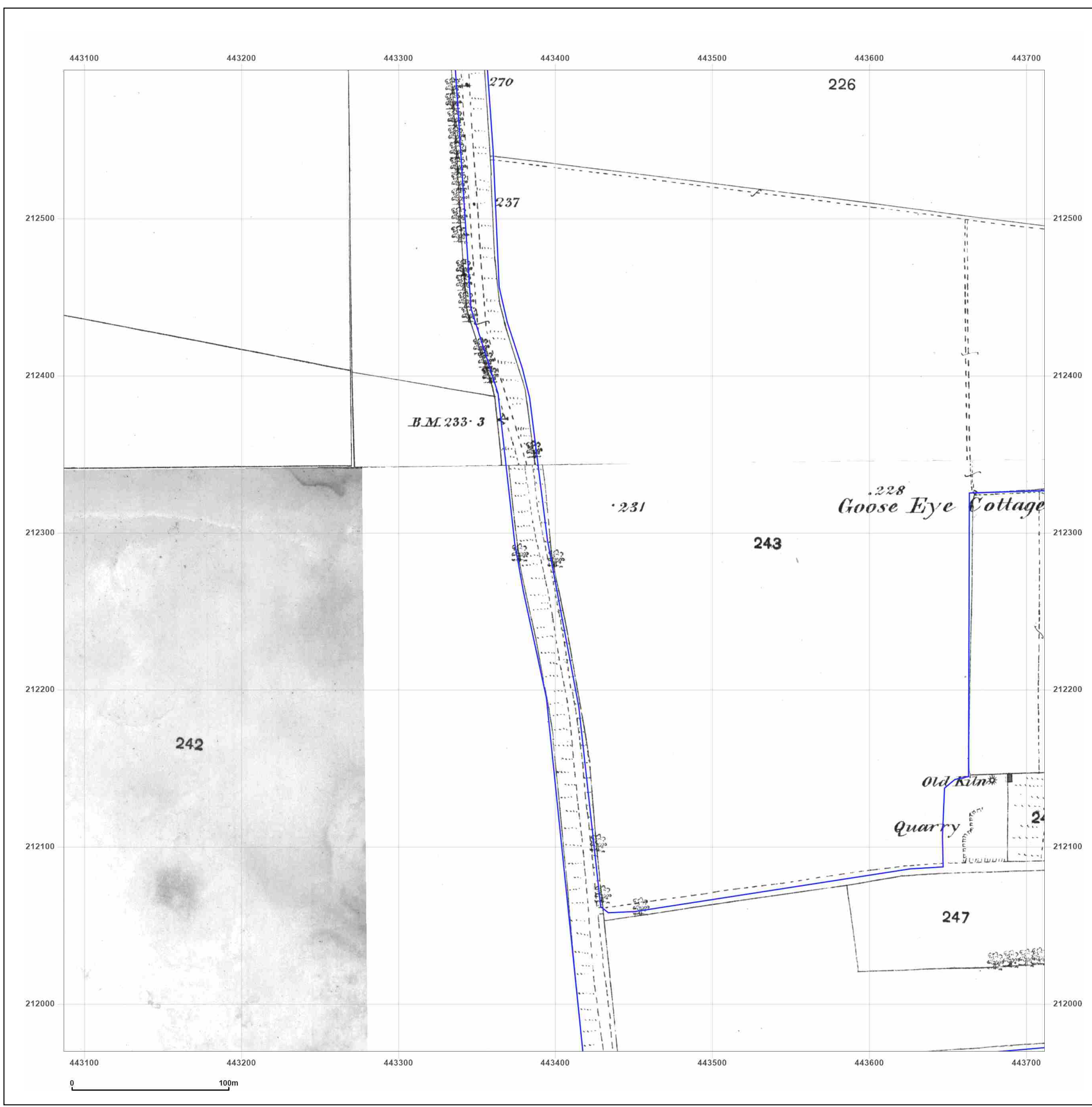


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

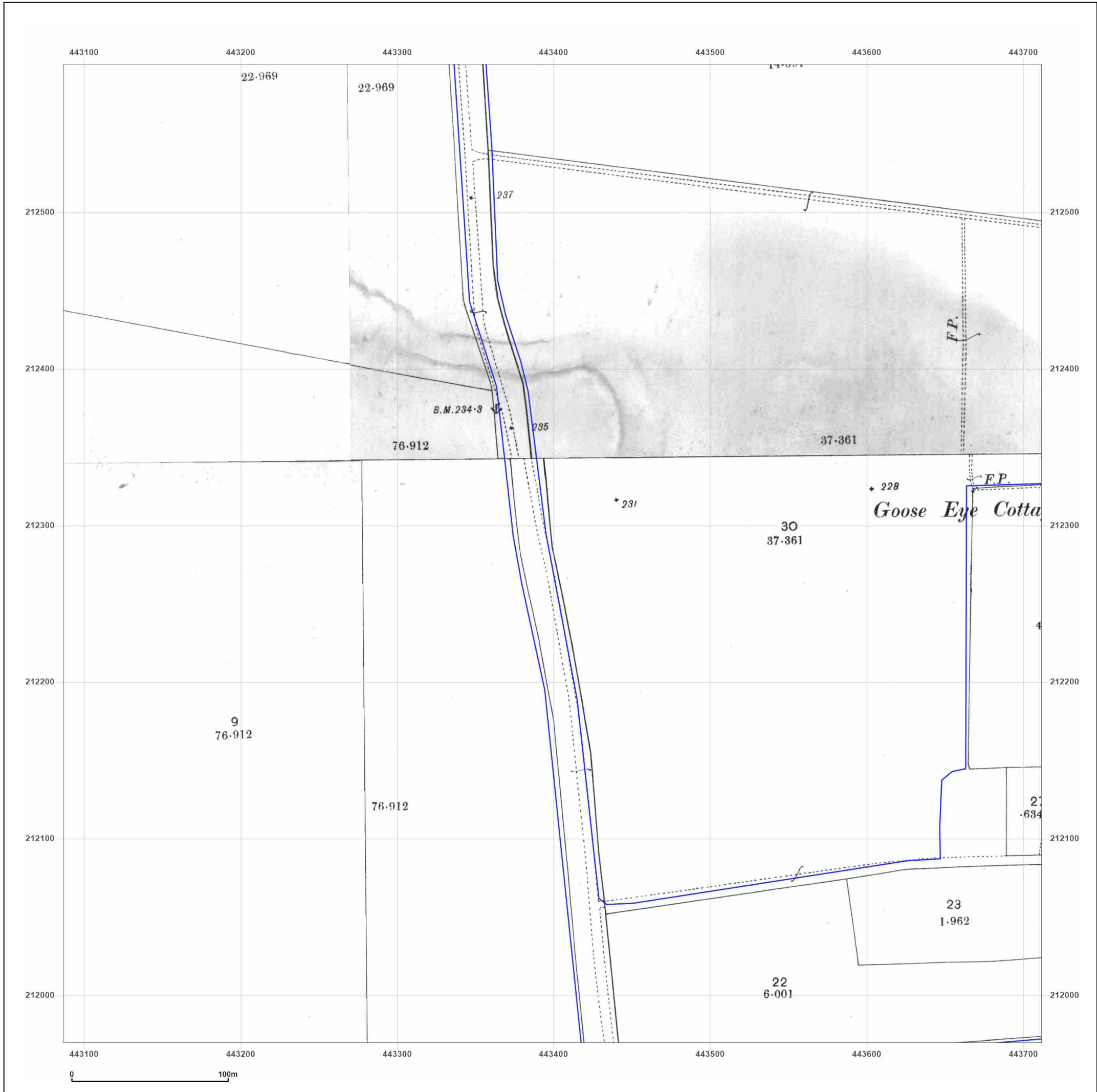
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Report Ref: GSIP-2022-12757-10509_LS_2_4
Grid Ref: 443399, 212282

Map Name: County Series

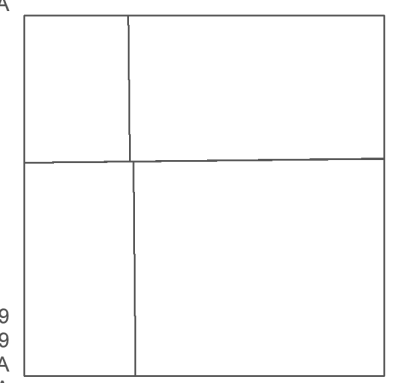
Map date: 1899

Scale: 1:2,500

Printed at: 1:2,500



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



Surveyed 1899
 Revised 1899
 Edition N/A
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Production date: 25 May 2022

Map legend available at: 

Site Details:

Middle - BM Solar

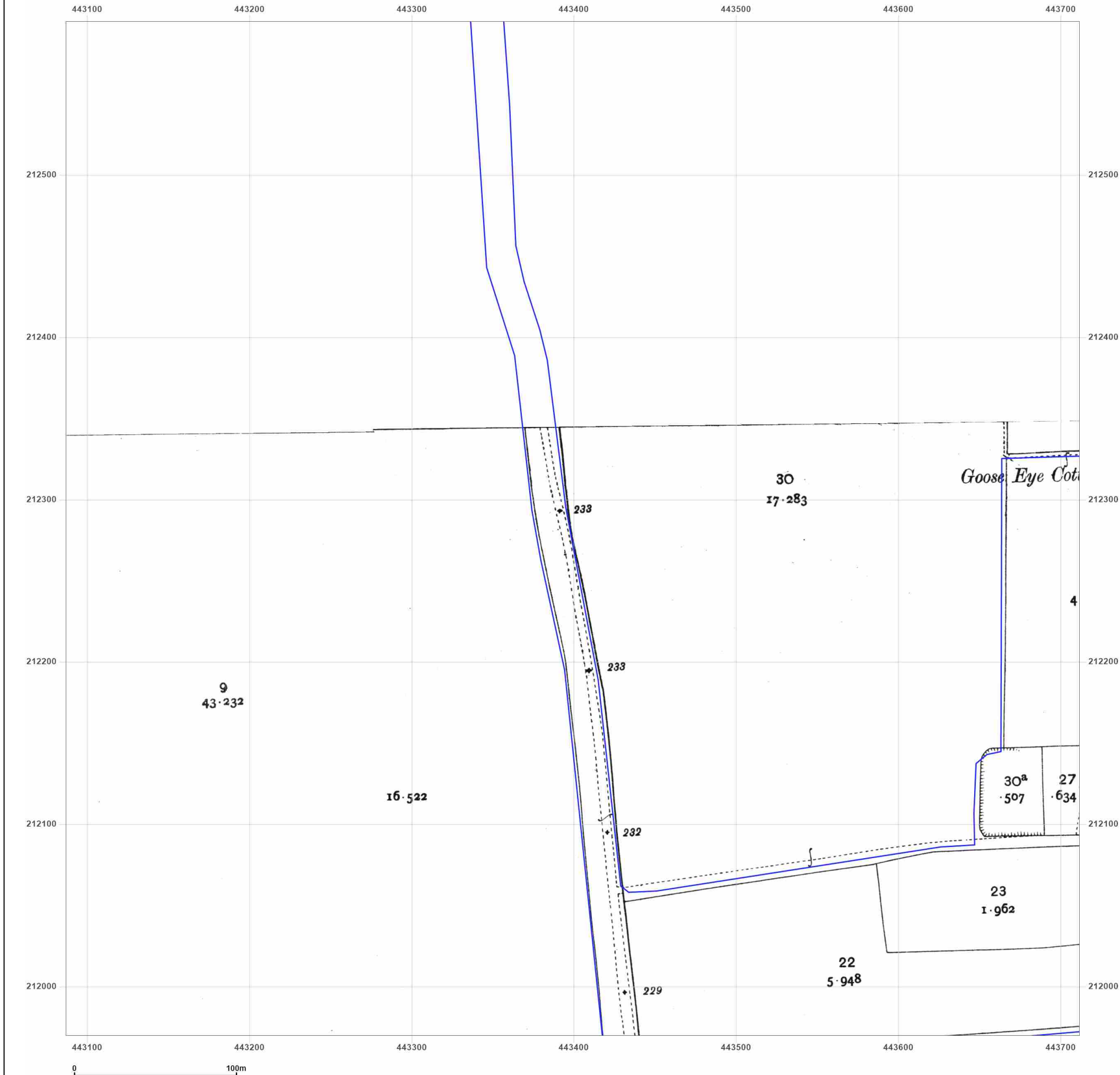
Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_4
Grid Ref: 443399, 212282

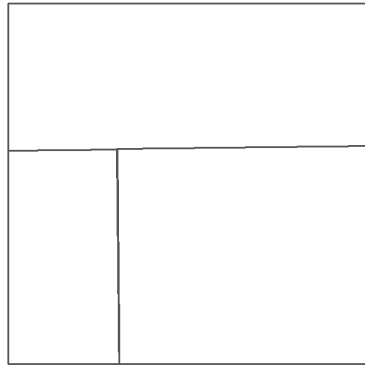
Map Name: County Series

Map date: 1910-1911

Scale: 1:2,500

Printed at: 1:2,500



<p>Surveyed 1910 Revised 1910 Edition N/A Copyright N/A Levelled N/A</p>		<p>Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A</p>
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Production date: 25 May 2022

Map legend available at: 

Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_4
Grid Ref: 443399, 212282

Map Name: County Series

Map date: 1921

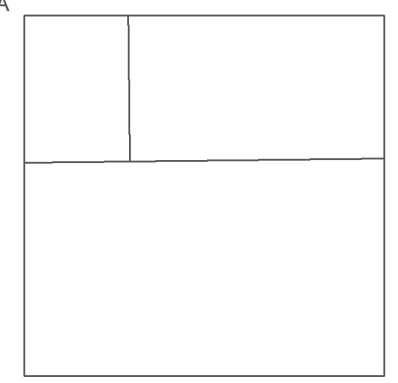
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1921
 Revised 1921
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1921
 Revised 1921
 Edition N/A
 Copyright N/A
 Levelled N/A

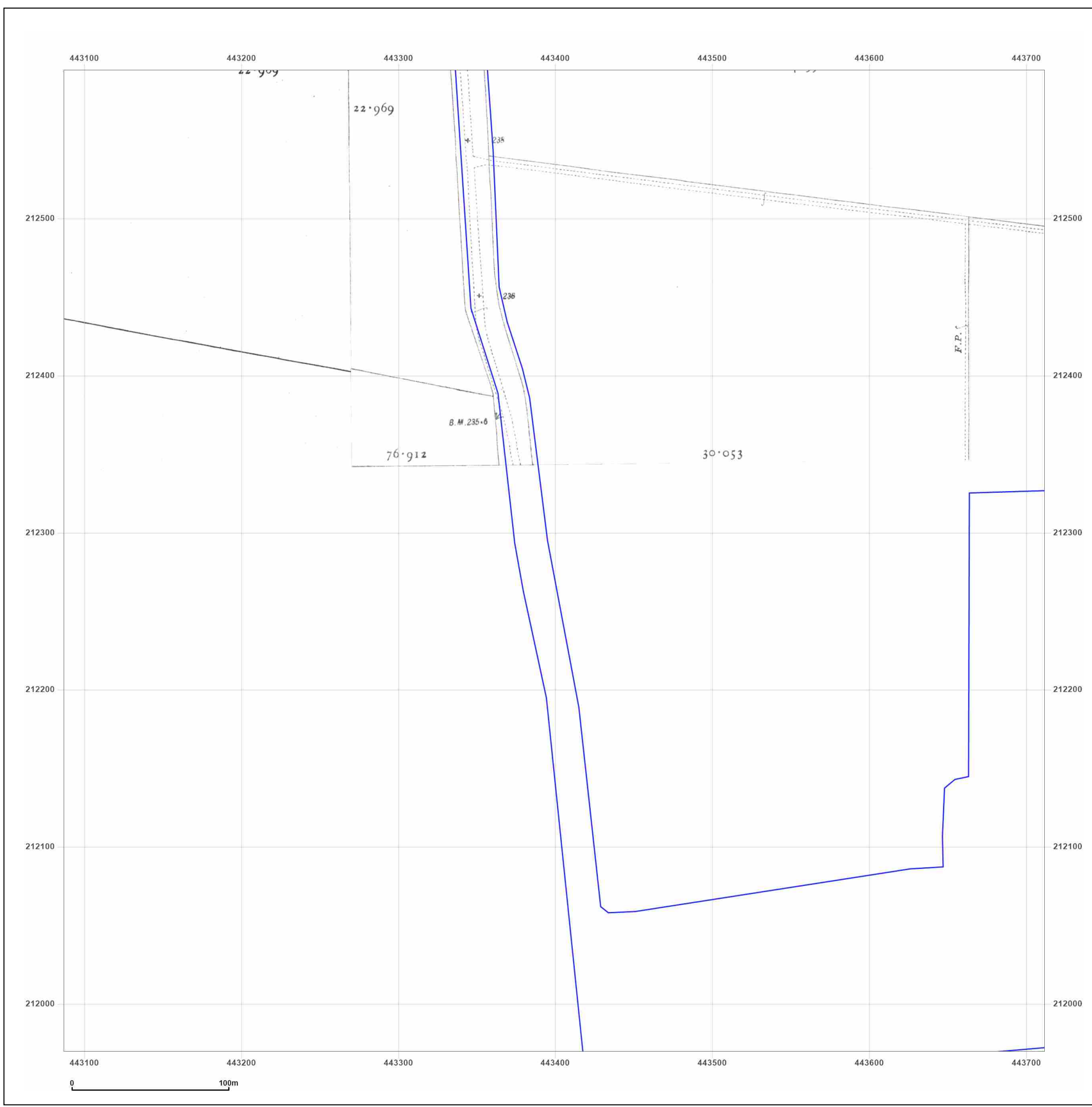


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_4
Grid Ref: 443399, 212282

Map Name: National Grid

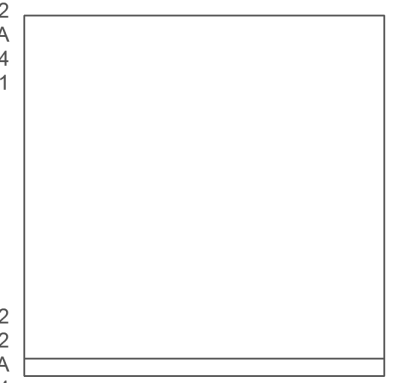
Map date: 1974

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1972
 Revised 1972
 Edition N/A
 Copyright 1974
 Levelled 1971



Surveyed 1972
 Revised 1972
 Edition N/A
 Copyright 1974
 Levelled 1971

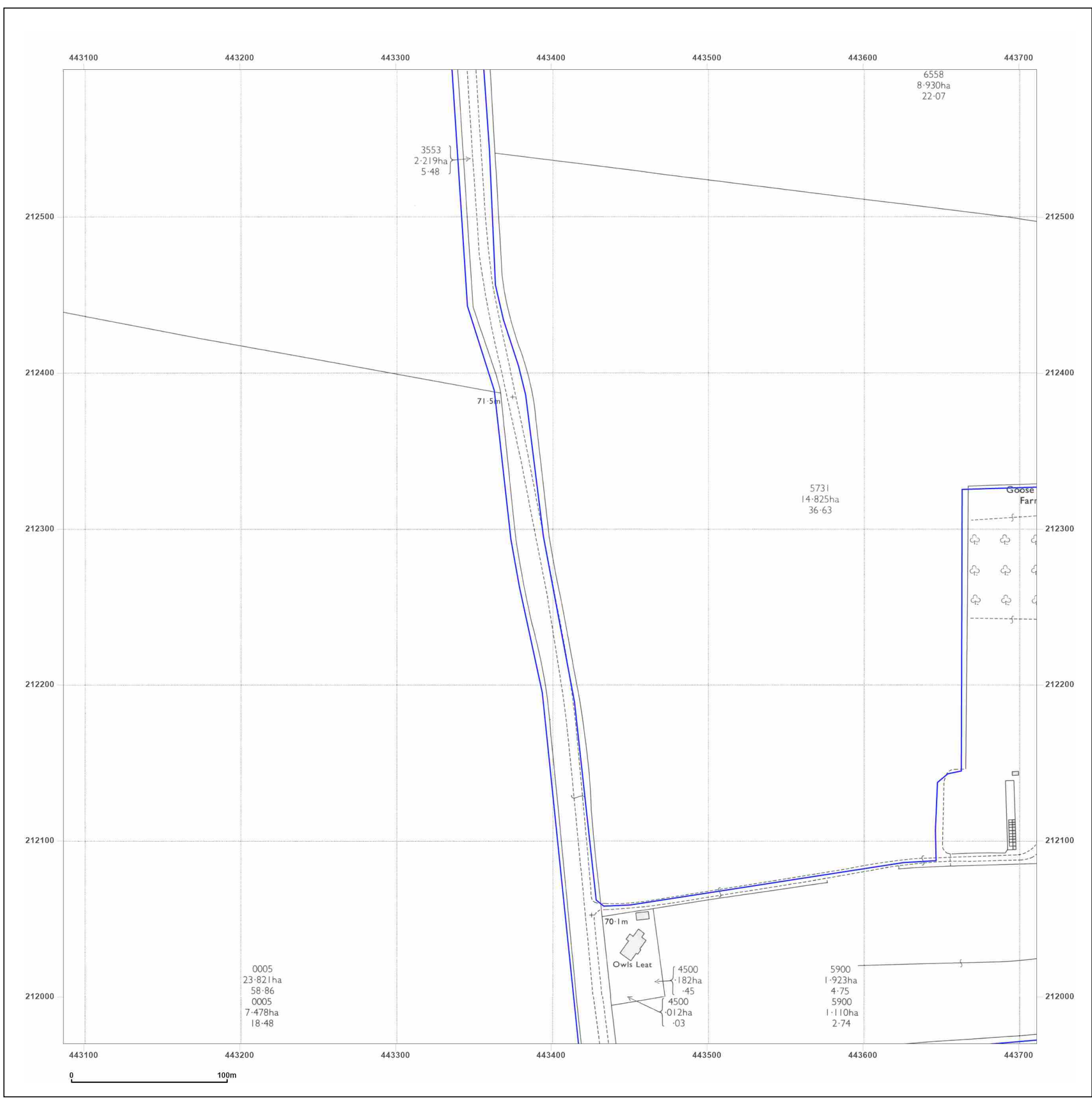


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_4
Grid Ref: 443399, 212282

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

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

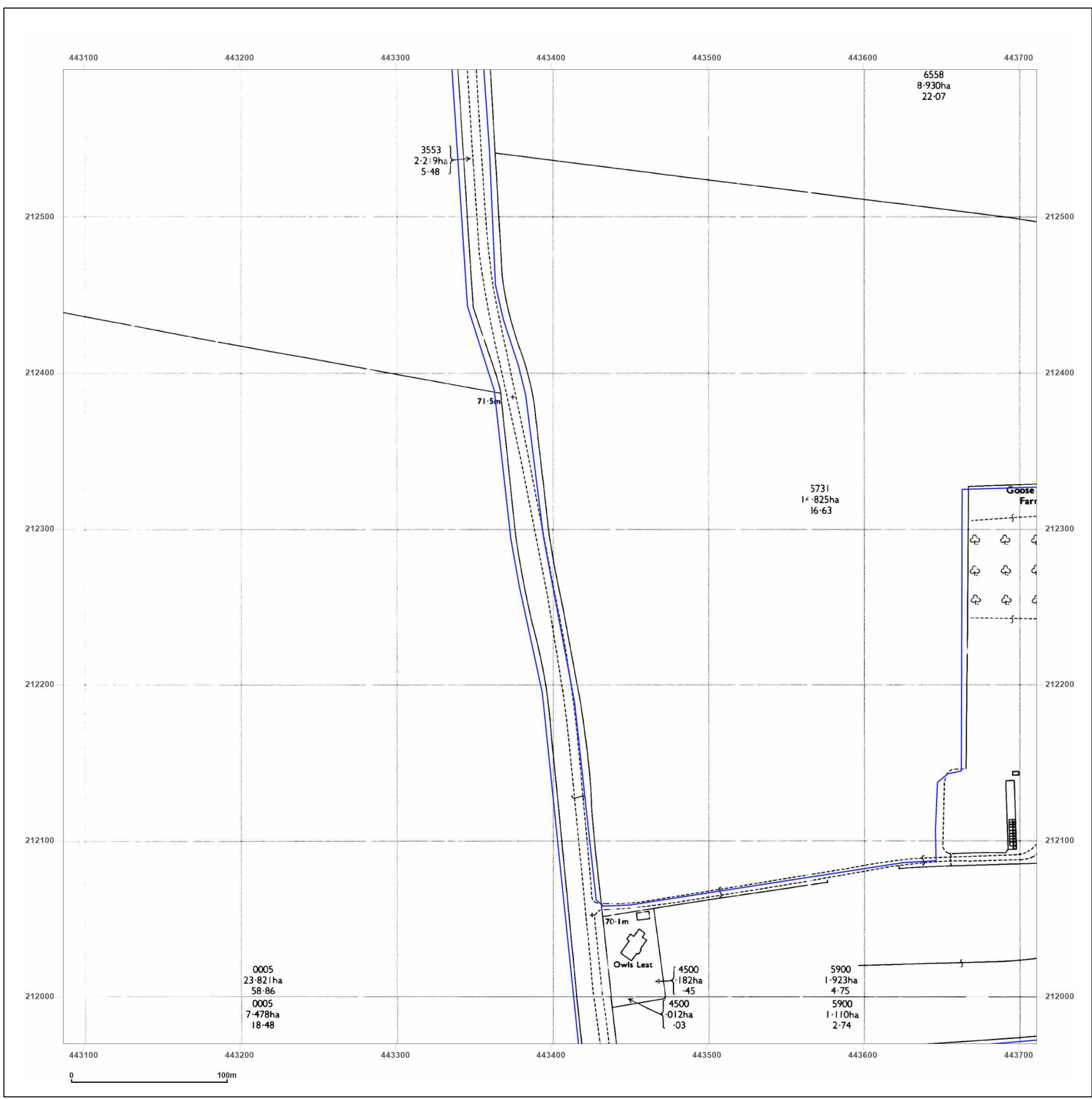


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_4
Grid Ref: 443399, 212282

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1994
 Revised 1994
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1994
 Revised 1994
 Edition N/A
 Copyright N/A
 Levelled N/A

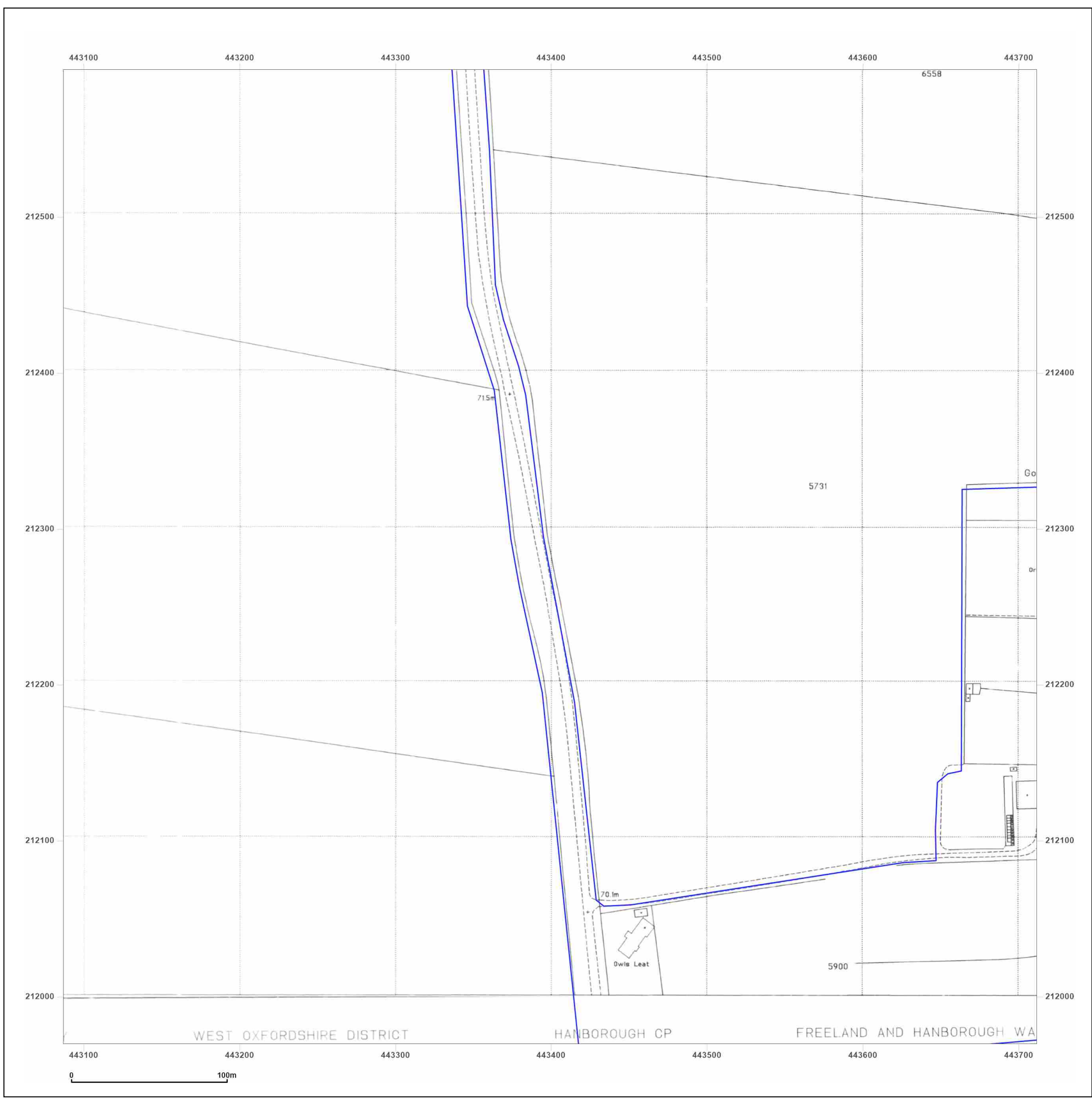


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_5
Grid Ref: 443399, 212907

Map Name: County Series

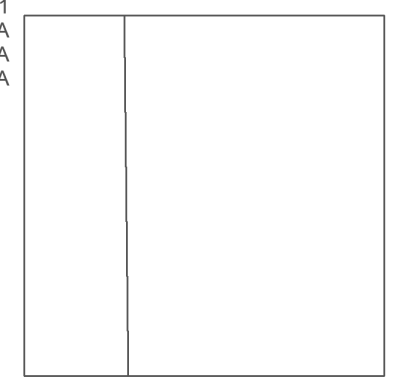
Map date: 1881

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1881
 Revised 1881
 Edition N/A
 Copyright N/A
 Levelled N/A

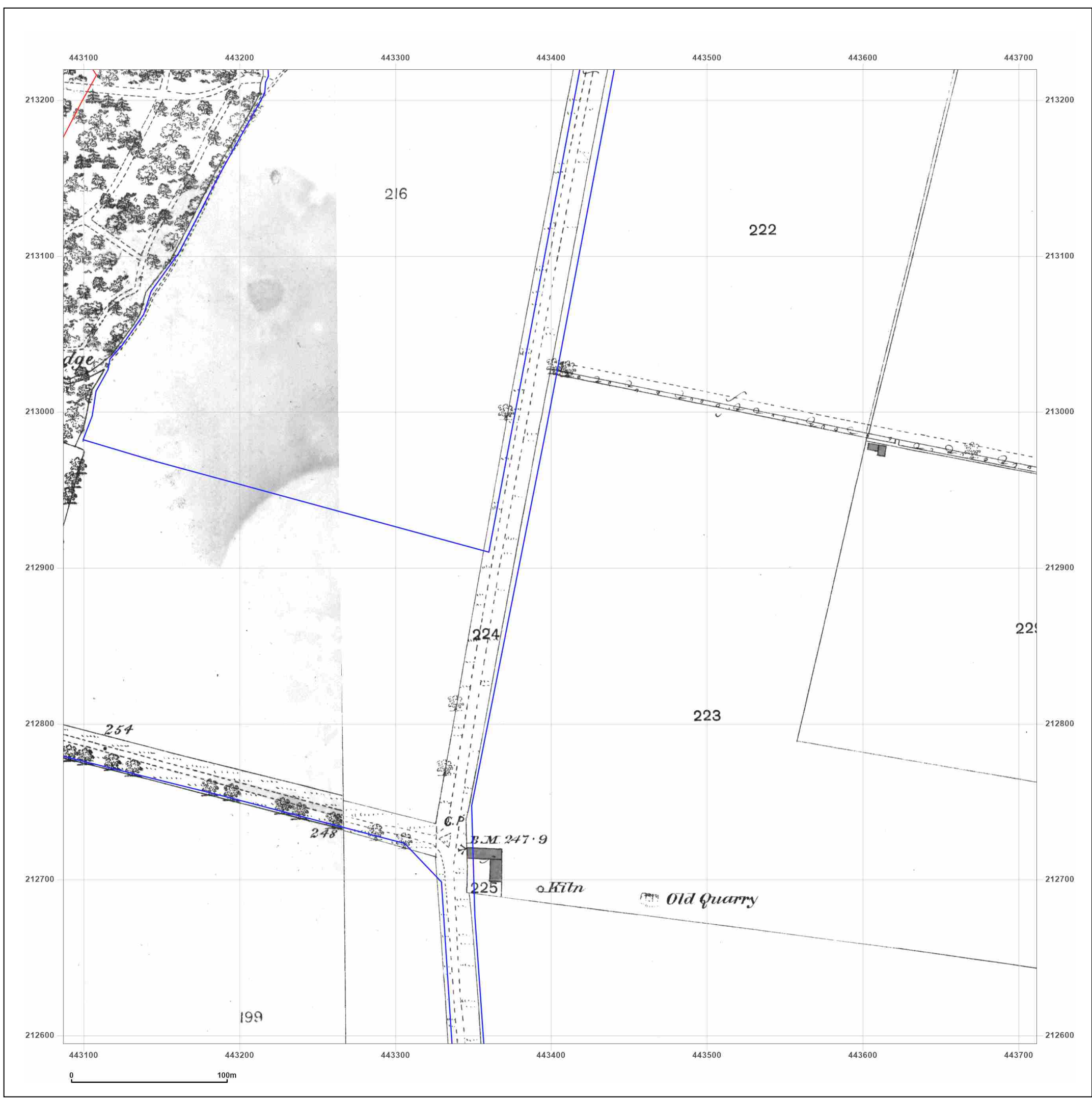


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_5
Grid Ref: 443399, 212907

Map Name: County Series

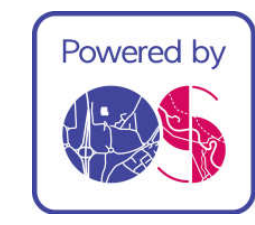
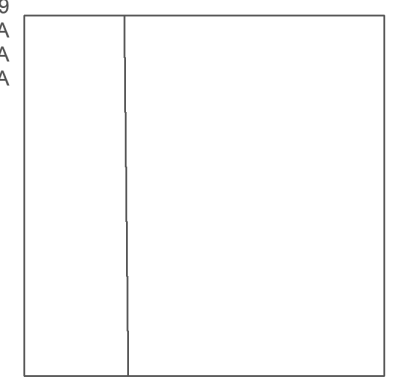
Map date: 1899

Scale: 1:2,500

Printed at: 1:2,500



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

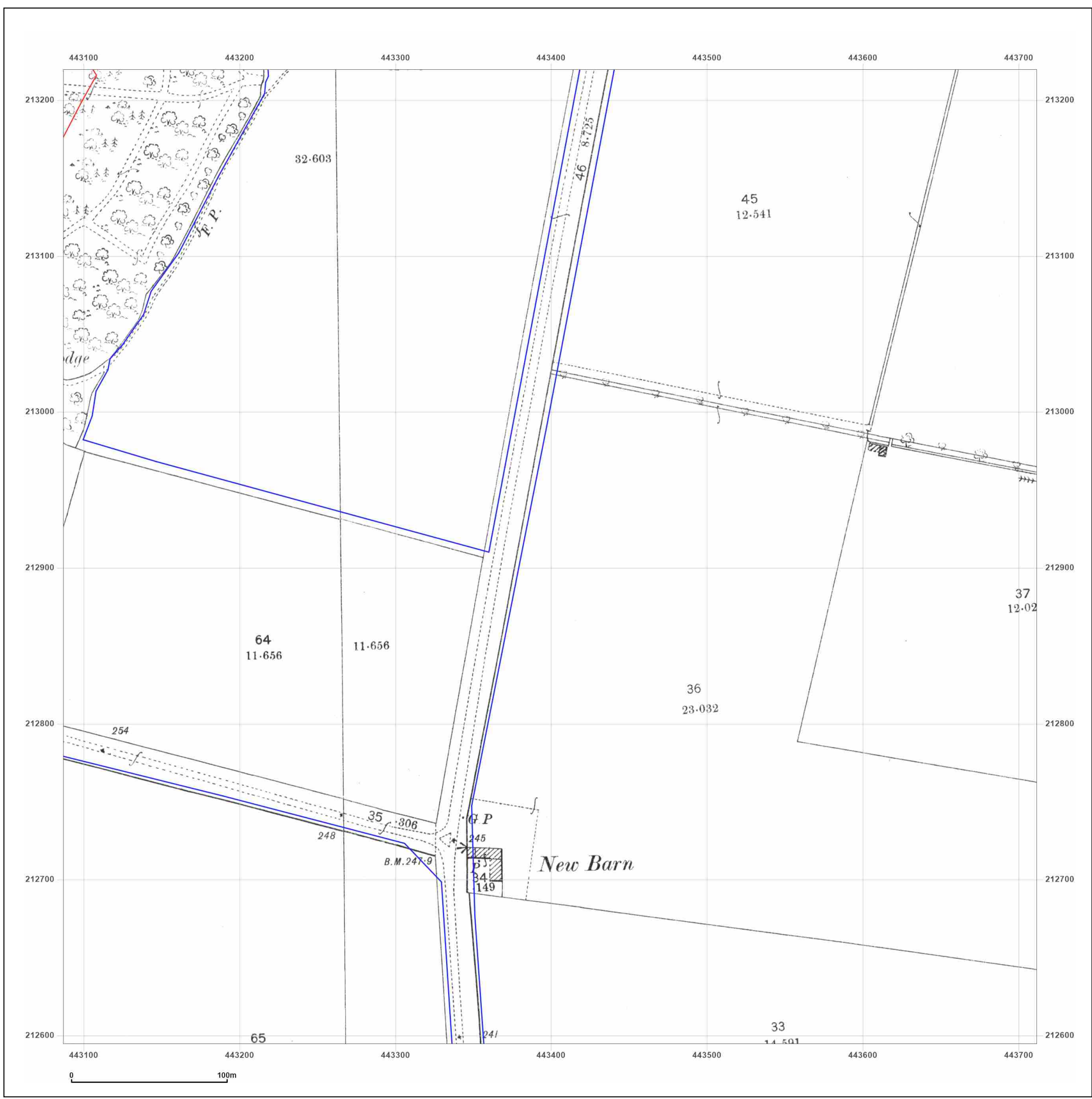


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_5
Grid Ref: 443399, 212907

Map Name: County Series

Map date: 1921

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1921
 Revised 1921
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1921
 Revised 1921
 Edition N/A
 Copyright N/A
 Levelled N/A

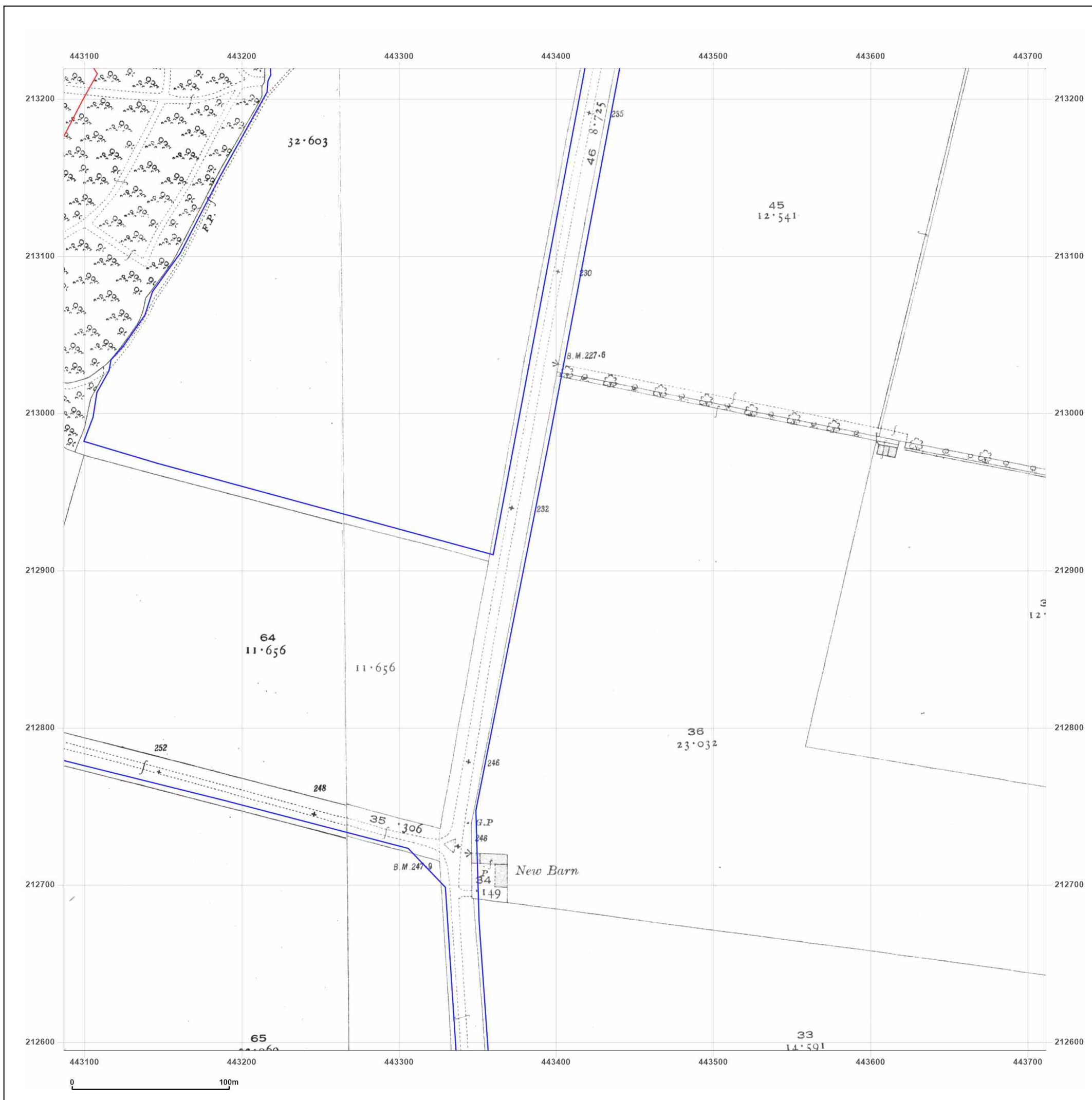


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_5
Grid Ref: 443399, 212907

Map Name: National Grid

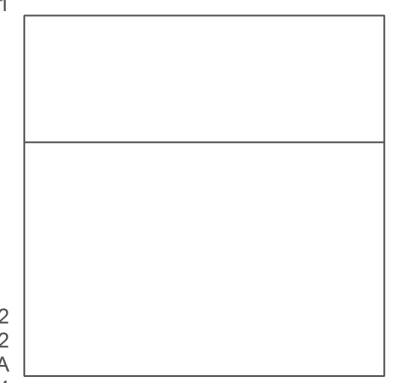
Map date: 1974-1975

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1972
 Revised 1972
 Edition N/A
 Copyright 1975
 Levelled 1971



Surveyed 1972
 Revised 1972
 Edition N/A
 Copyright 1974
 Levelled 1971

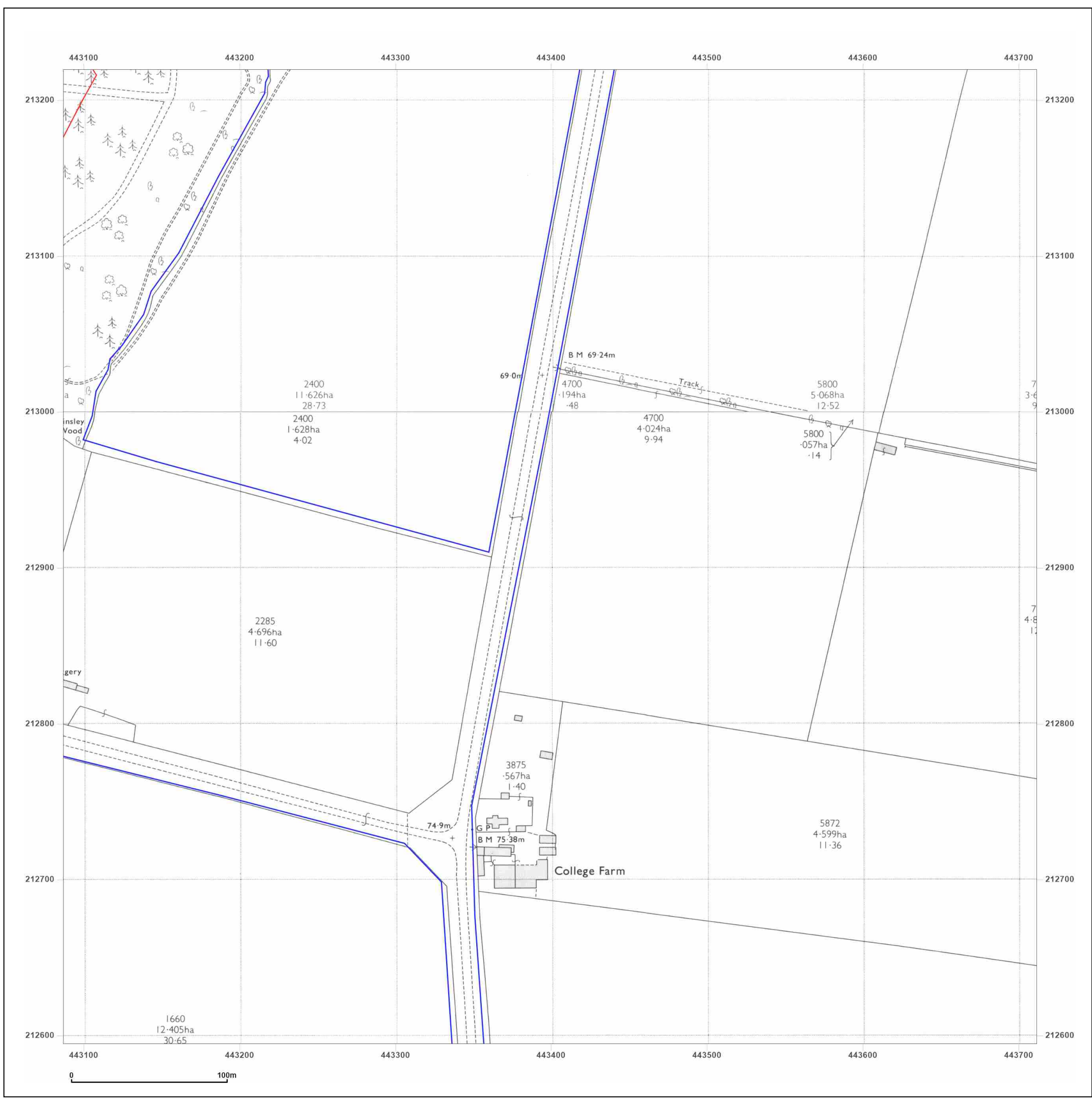


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_5
Grid Ref: 443399, 212907

Map Name: National Grid

Map date: 1974-1975

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 N/A
 Levelled N/A

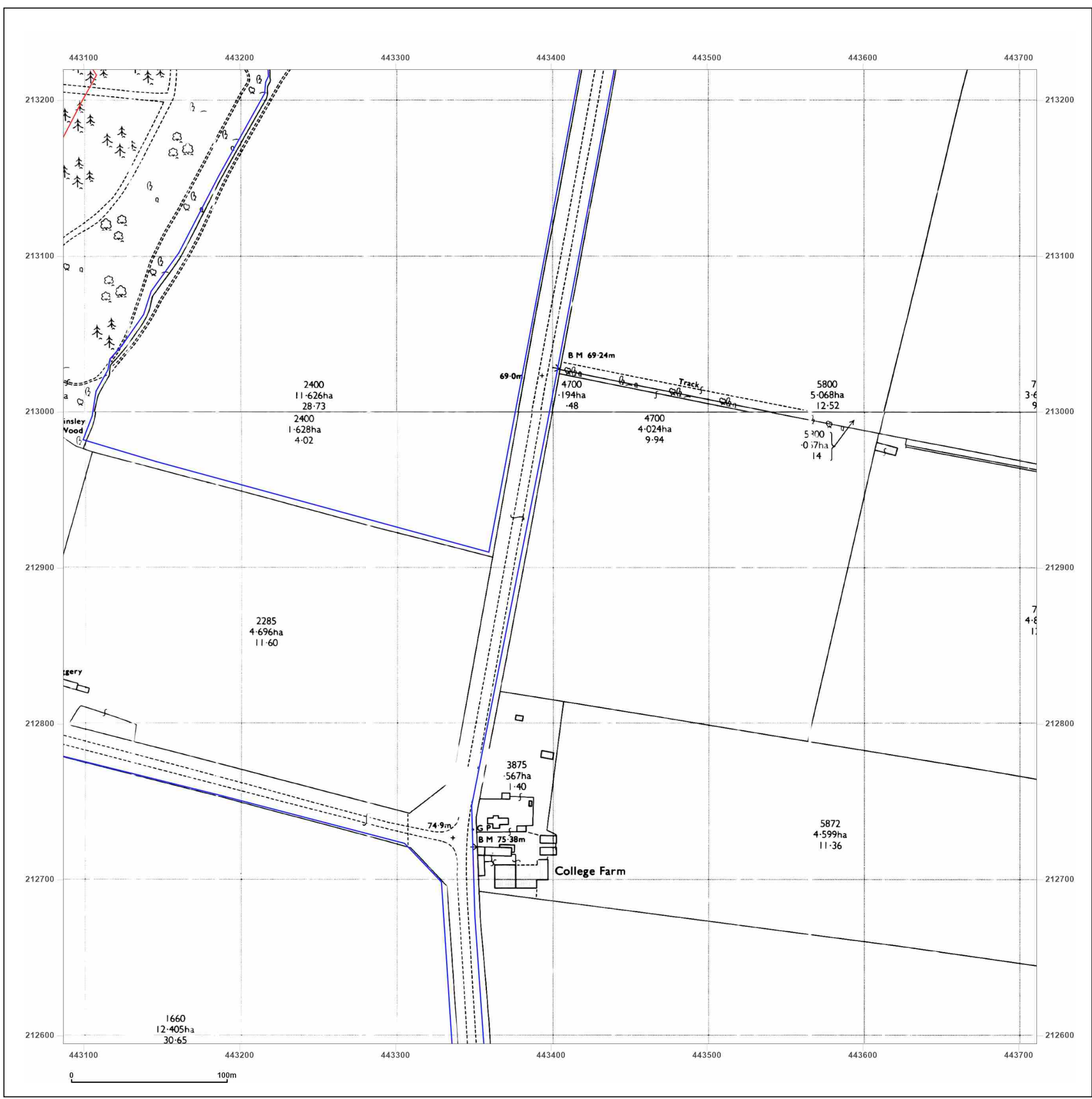


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_LS_2_5
Grid Ref: 443399, 212907

Map Name: National Grid

Map date: 1994

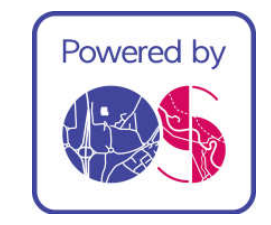
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1994
 Revised 1994
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1994
 Revised 1994
 Edition N/A
 Copyright N/A
 Levelled N/A

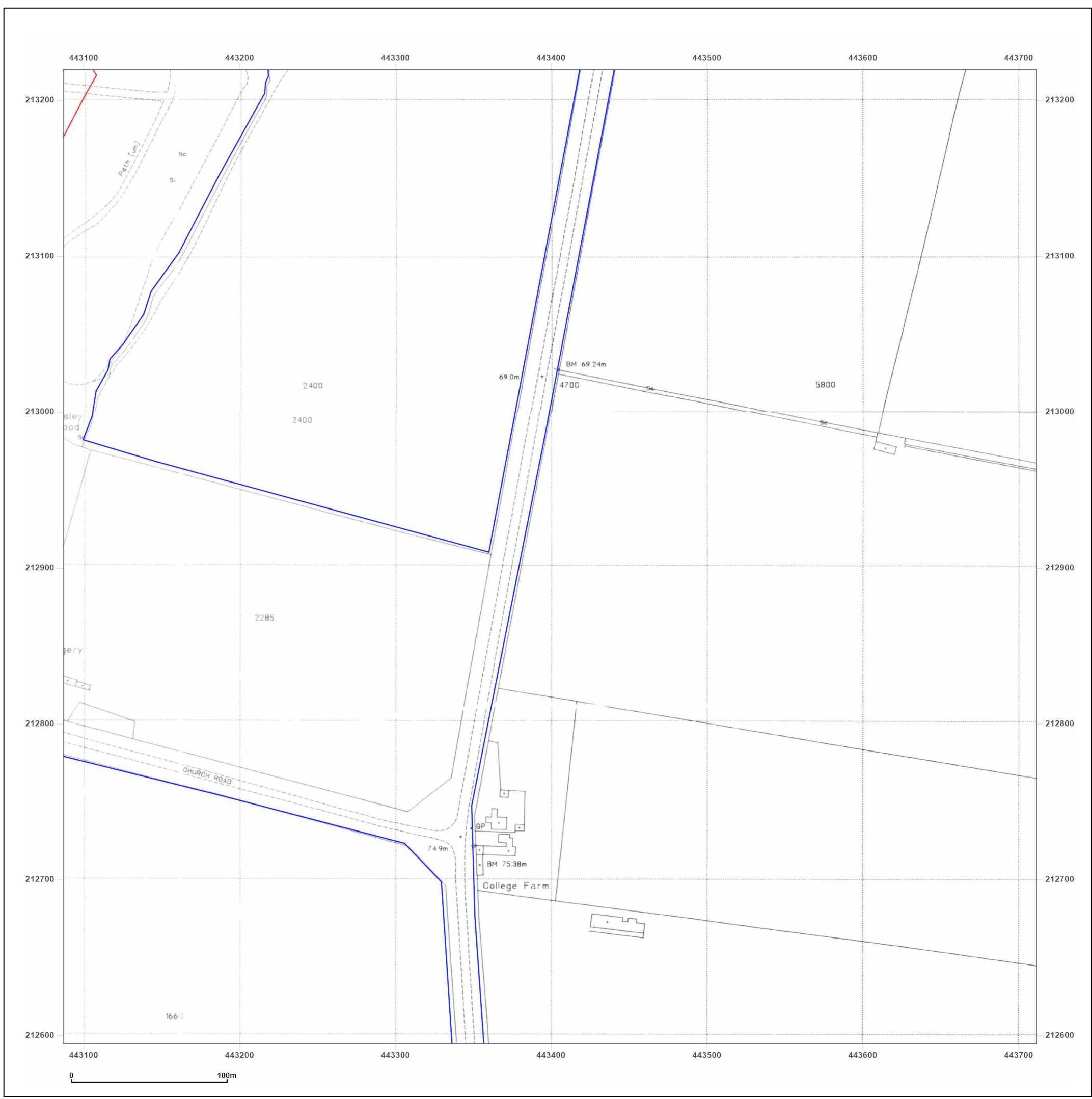


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_1
Grid Ref: 442462, 210408

Map Name: County Series

Map date: 1876

Scale: 1:10,560

Printed at: 1:10,560



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

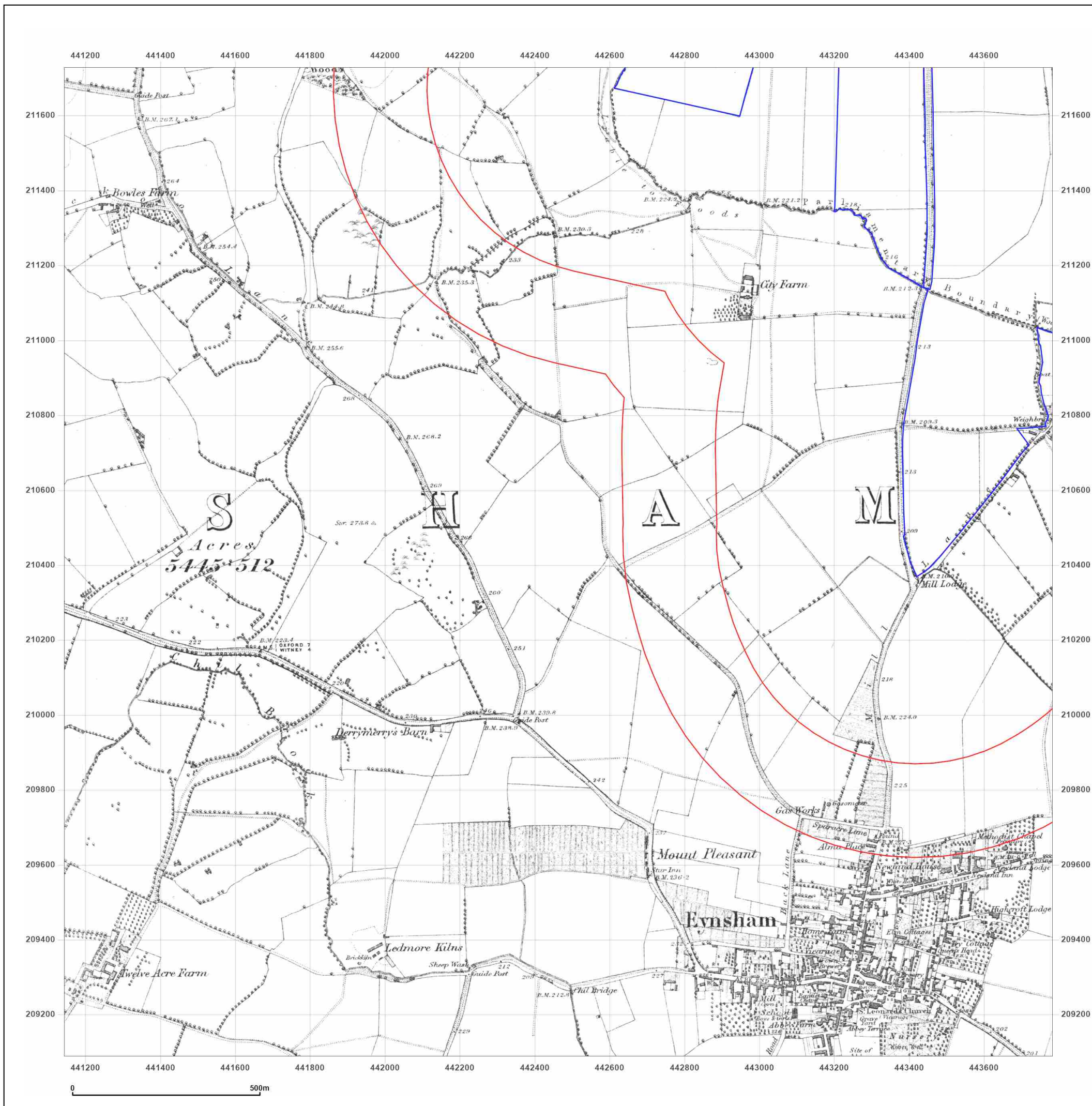


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Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_1
Grid Ref: 442462, 210408

Map Name: County Series

Map date: 1900

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

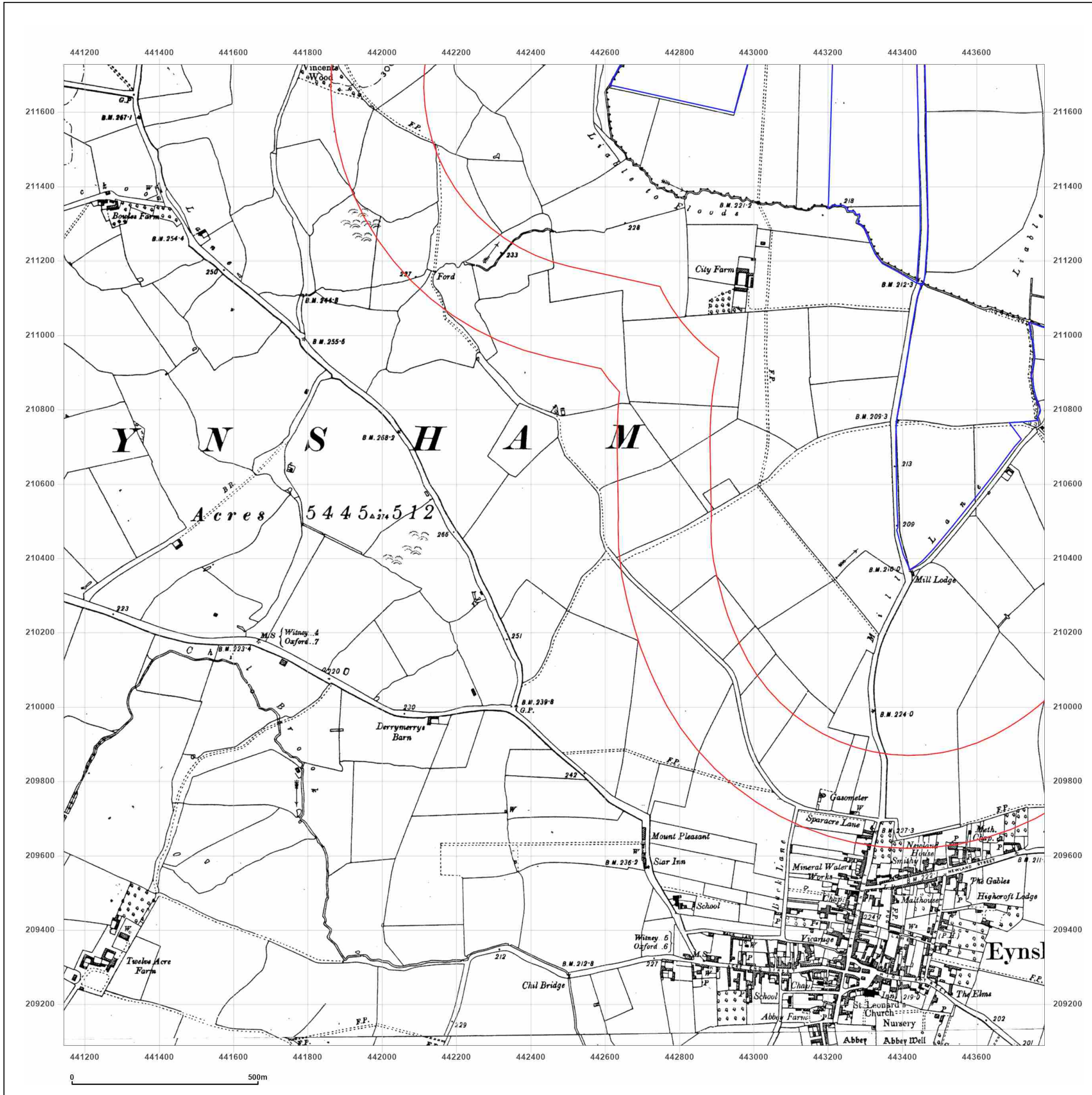


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_1
Grid Ref: 442462, 210408

Map Name: County Series

Map date: 1900

Scale: 1:10,560

Printed at: 1:10,560



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

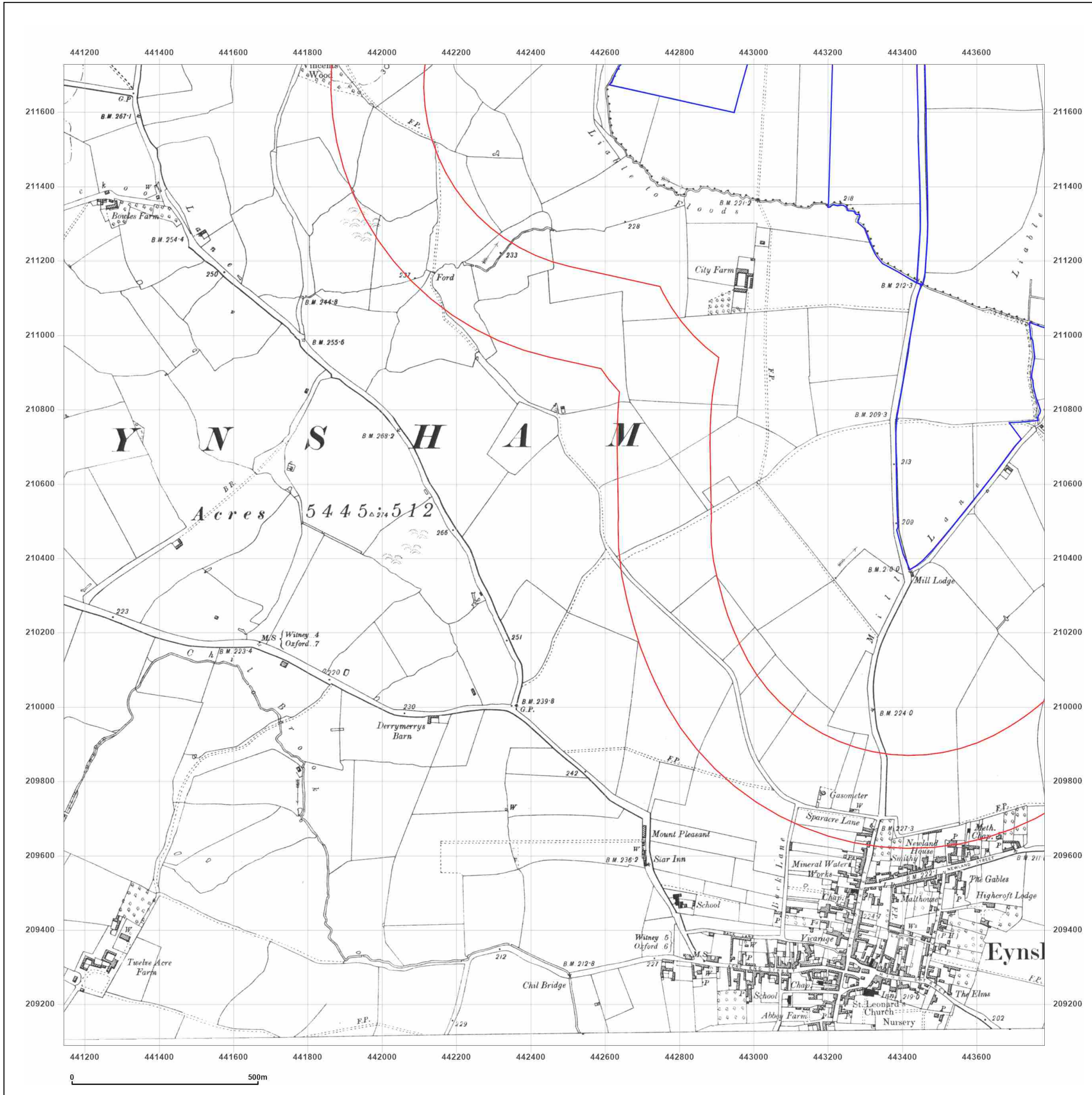


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Production date: 25 May 2022

Map legend available at:





Site Details:
Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_1
Grid Ref: 442462, 210408

Map Name: County Series
Map date: 1911
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

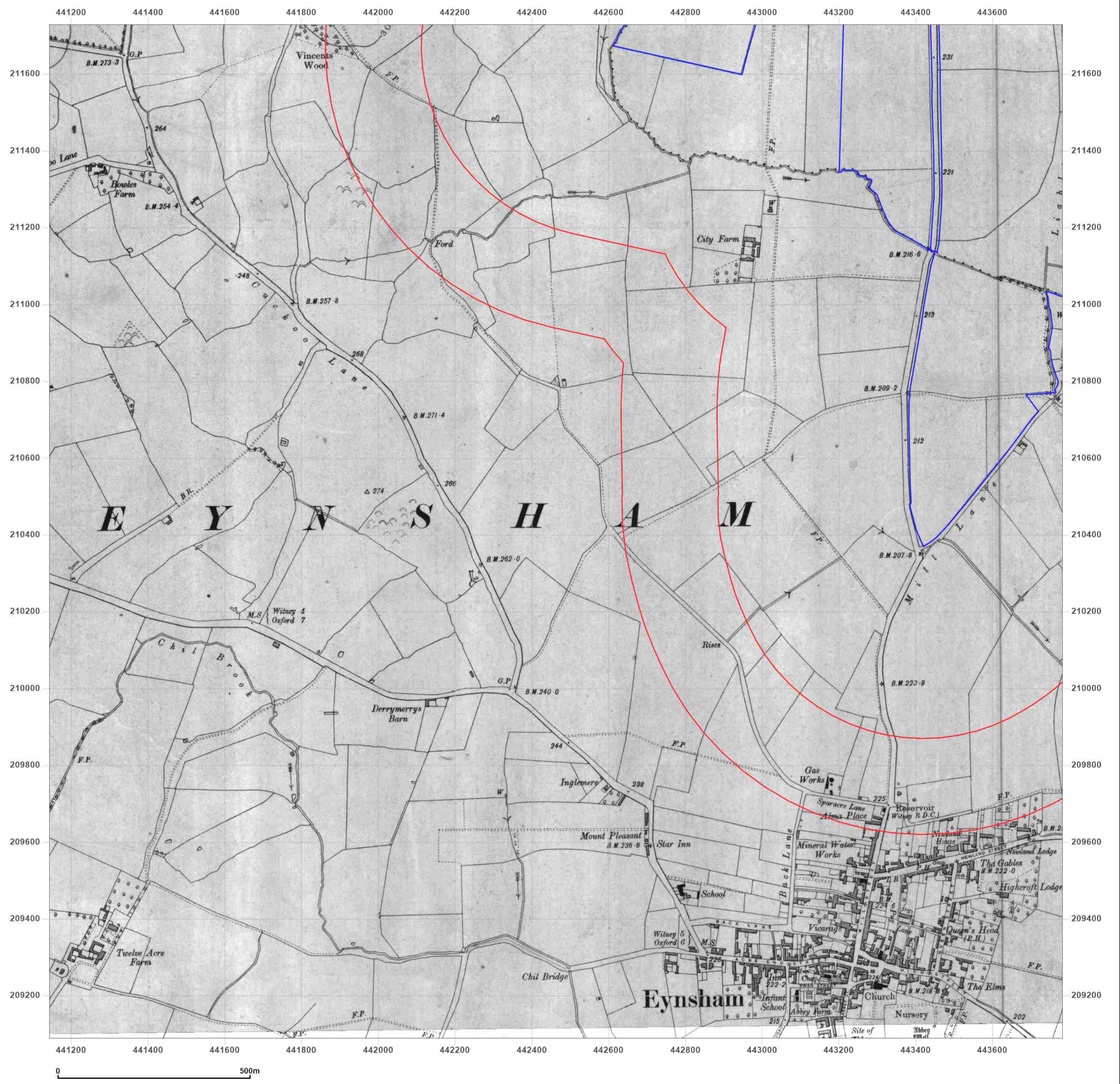


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_1
Grid Ref: 442462, 210408

Map Name: County Series

Map date: 1914

Scale: 1:10,560

Printed at: 1:10,560



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

Surveyed 1872
 Revised 1914
 Edition 1914
 Copyright N/A
 Levelled N/A

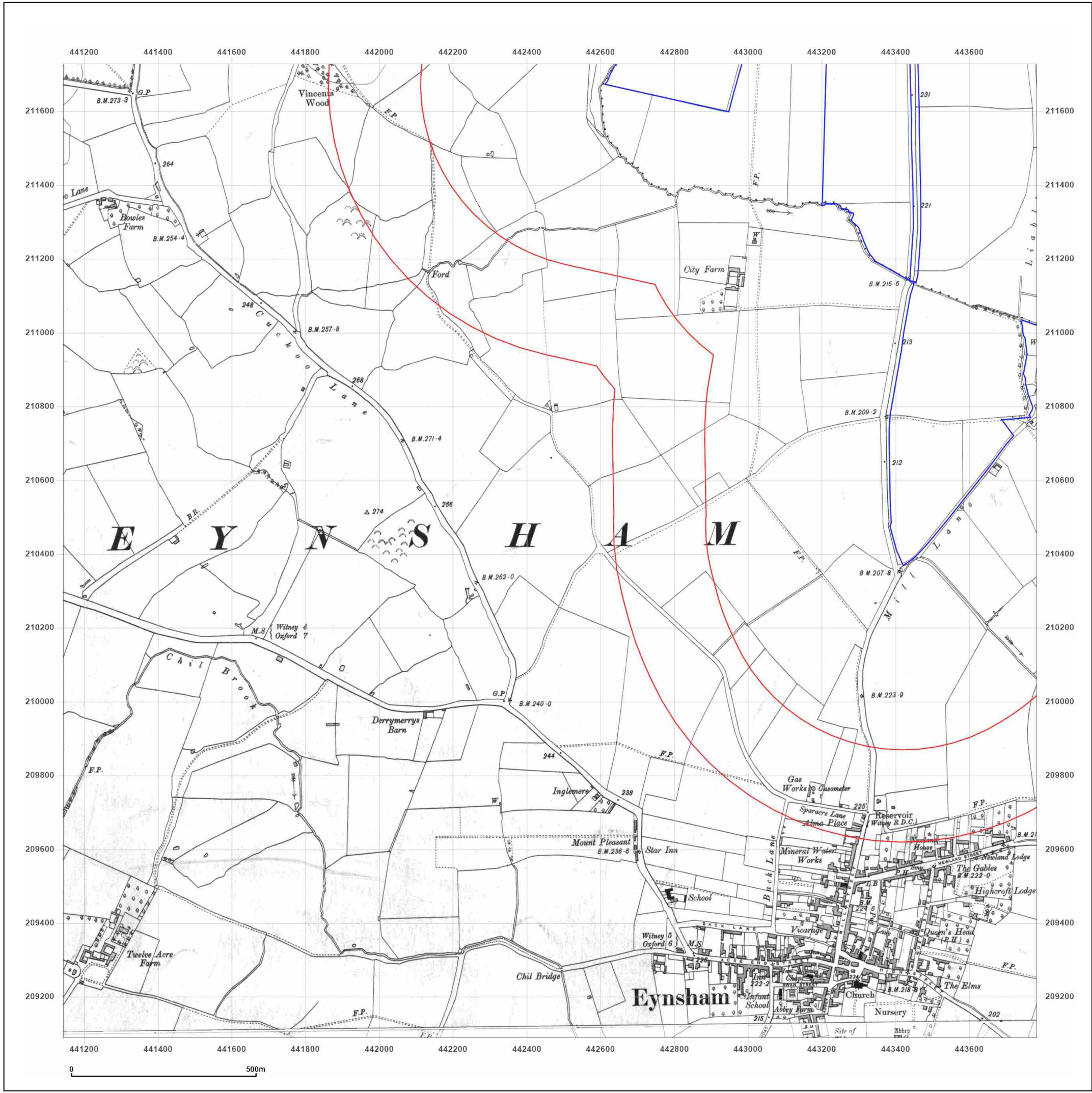


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_1
Grid Ref: 442462, 210408

Map Name: County Series

Map date: 1914

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1872
 Revised 1914
 Edition 1914
 Copyright N/A
 Levelled N/A

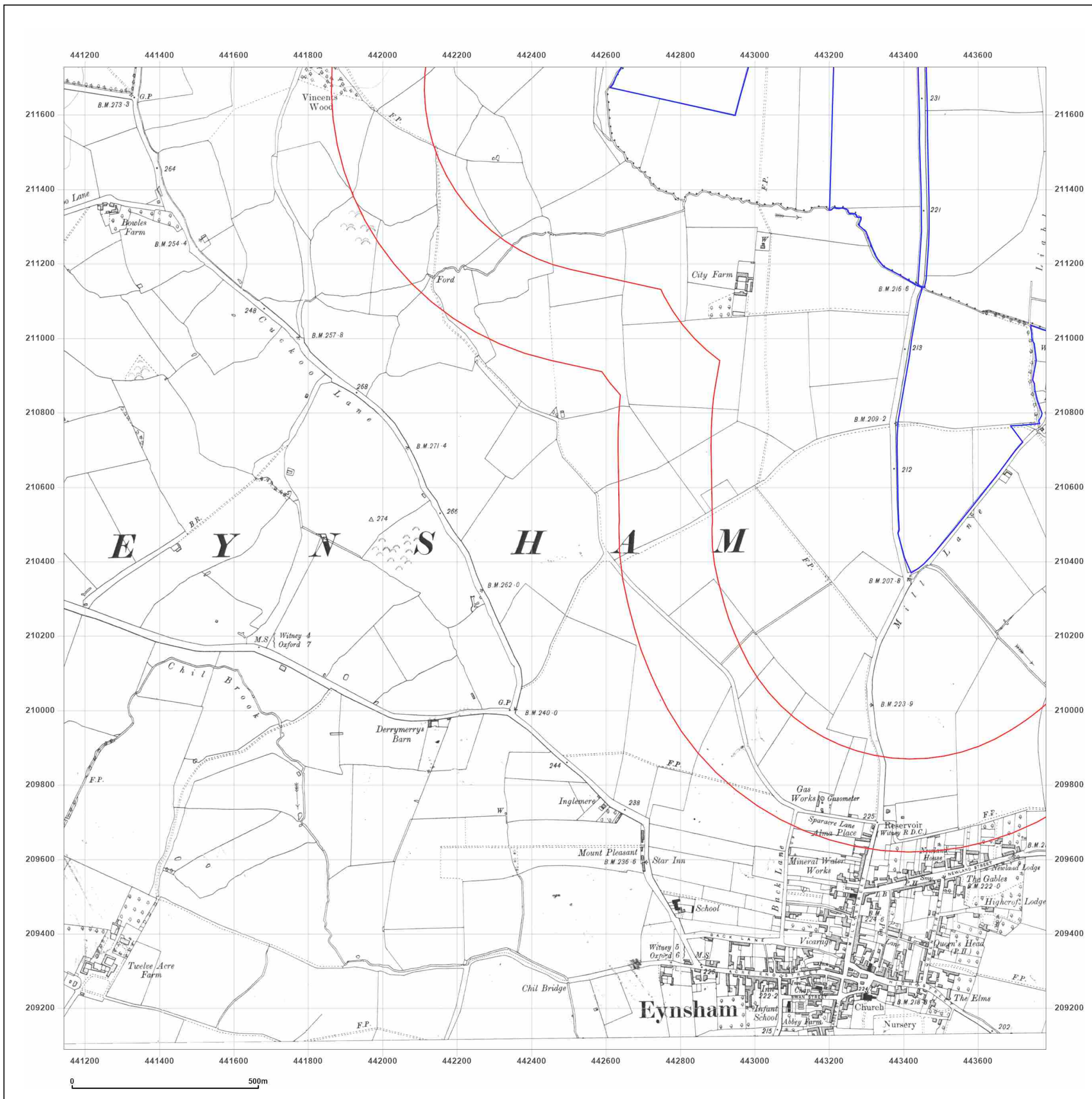


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_1
Grid Ref: 442462, 210408

Map Name: County Series

Map date: 1922

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1872
 Revised 1922
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1872
 Revised 1922
 Edition N/A
 Copyright N/A
 Levelled N/A

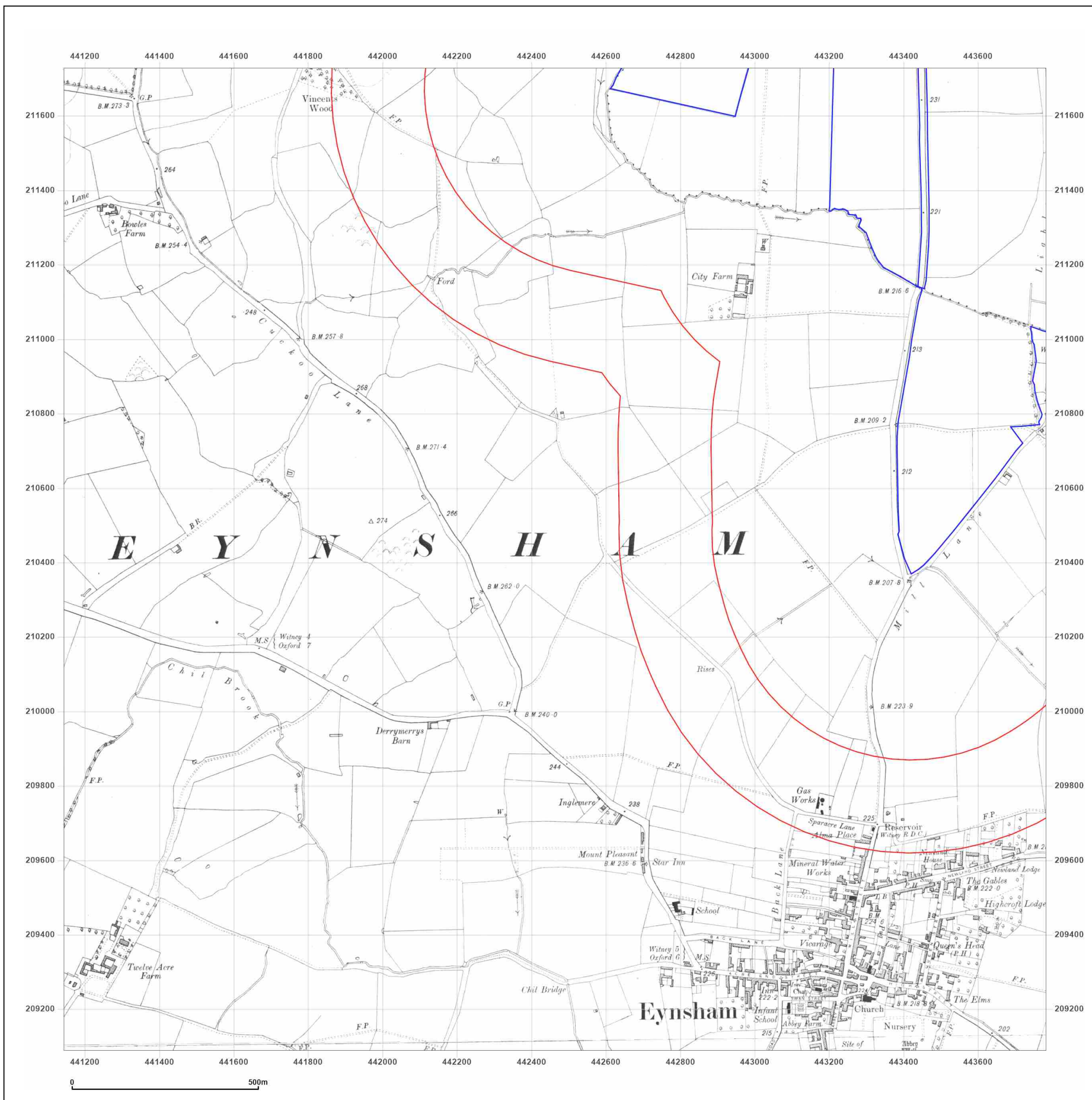


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_1
Grid Ref: 442462, 210408

Map Name: Provisional

Map date: 1955-1956

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
 Revised 1954
 Edition 1955
 Copyright N/A
 Levelled N/A

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

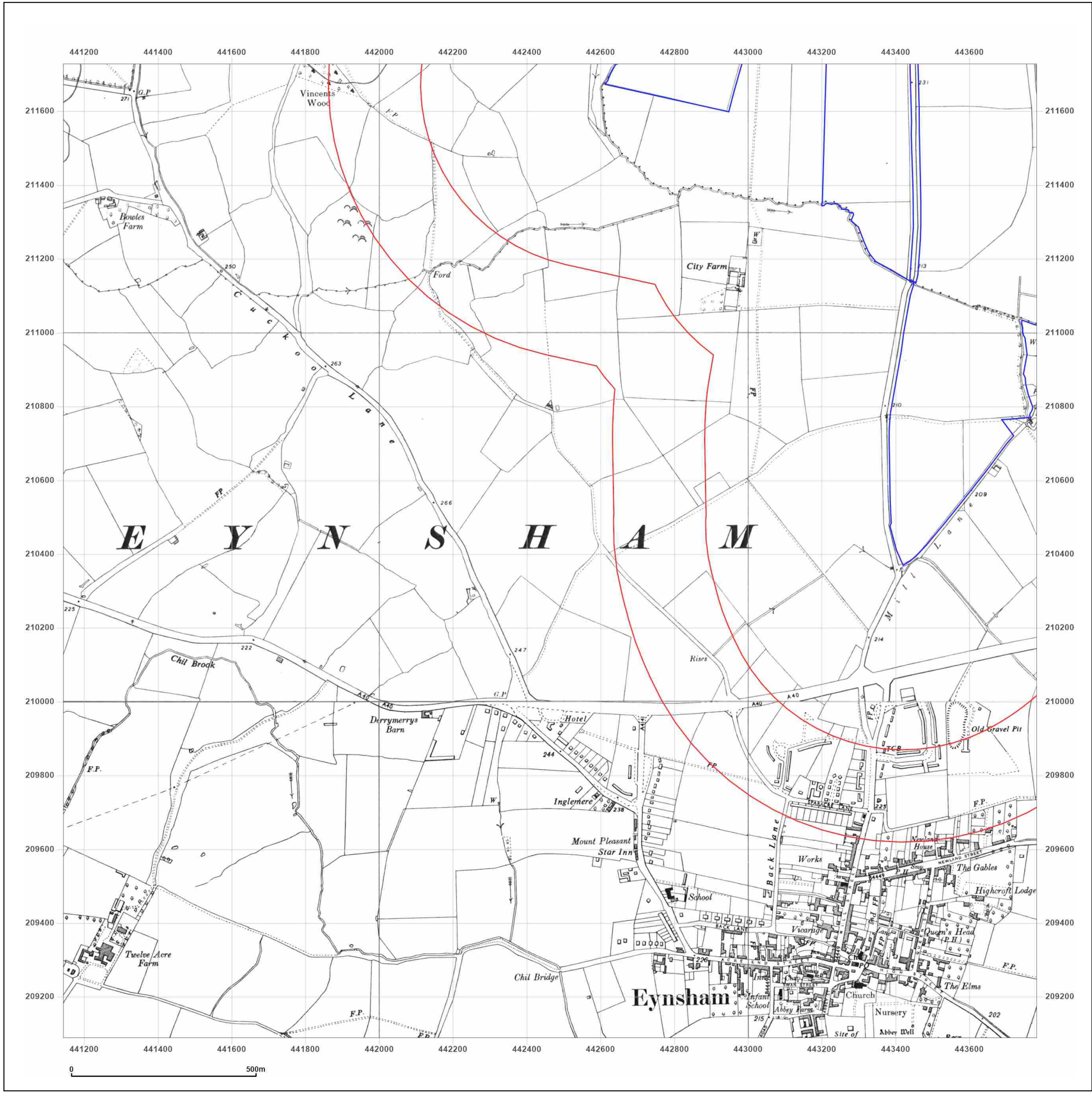


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_1
Grid Ref: 442462, 210408

Map Name: National Grid

Map date: 1972

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1970
 Revised 1972
 Edition N/A
 Copyright 1972
 Levelled 1971

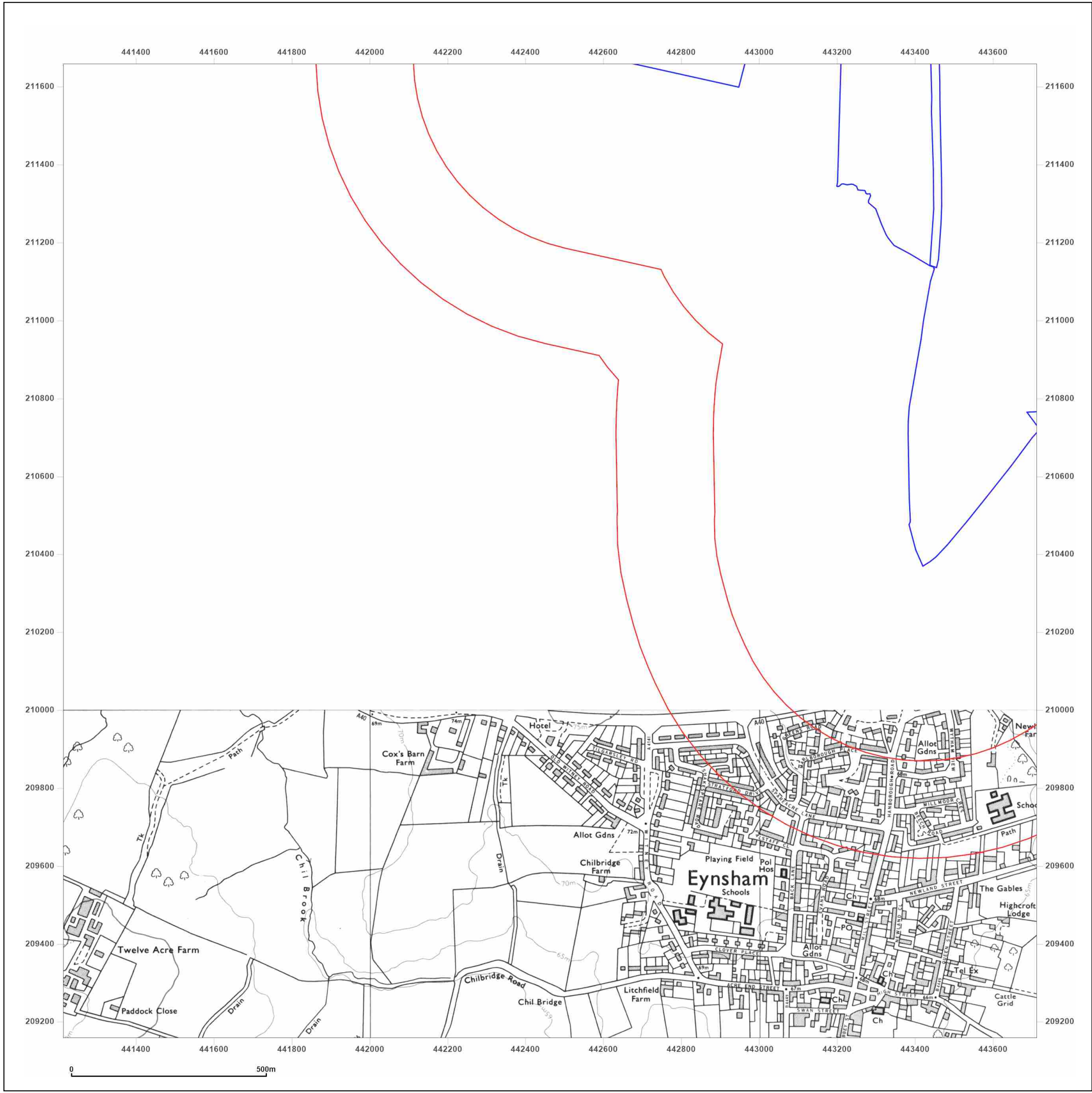


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_1
Grid Ref: 442462, 210408

Map Name: National Grid

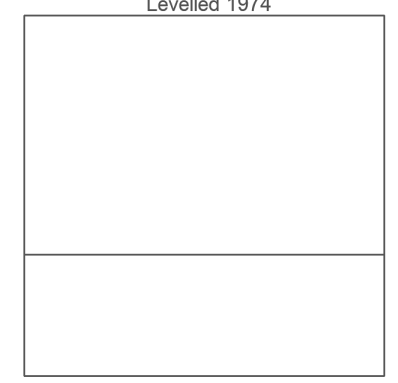
Map date: 1980

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1972
 Revised 1979
 Edition N/A
 Copyright 1980
 Levelled 1974

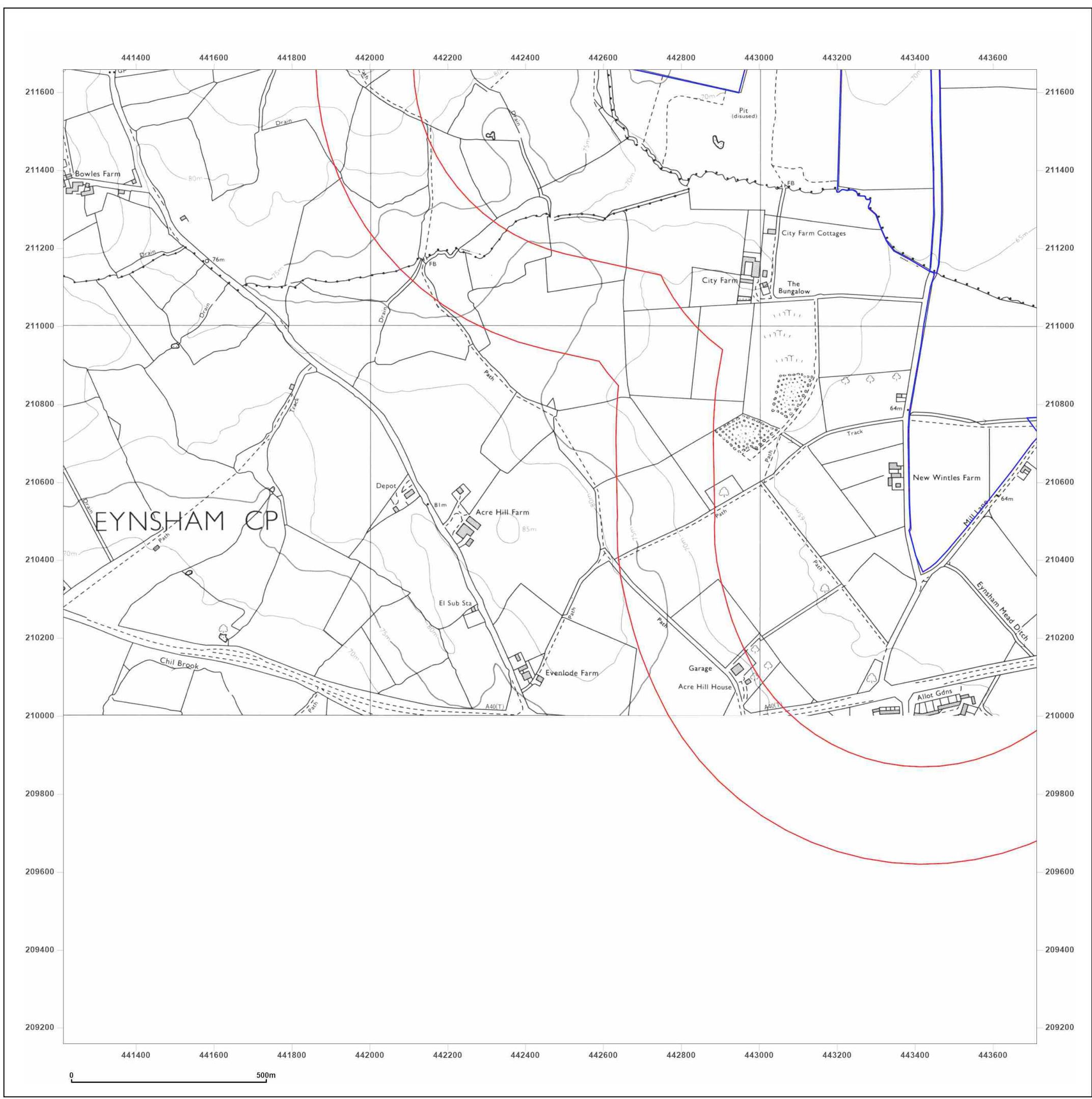


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_1
Grid Ref: 442462, 210408

Map Name: National Grid

Map date: 1988

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1983
 Revised 1988
 Edition N/A
 Copyright N/A
 Levelled N/A

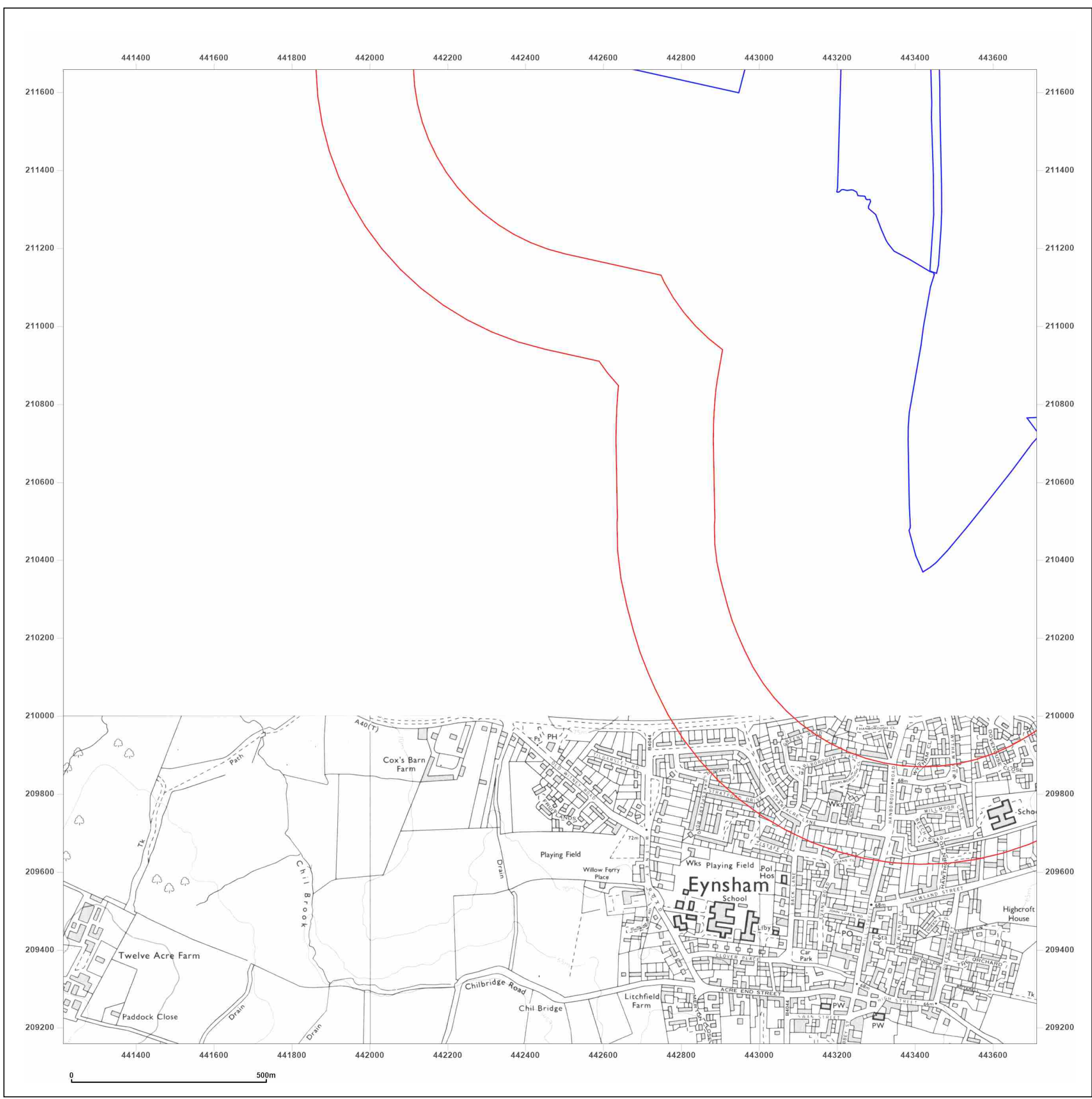


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

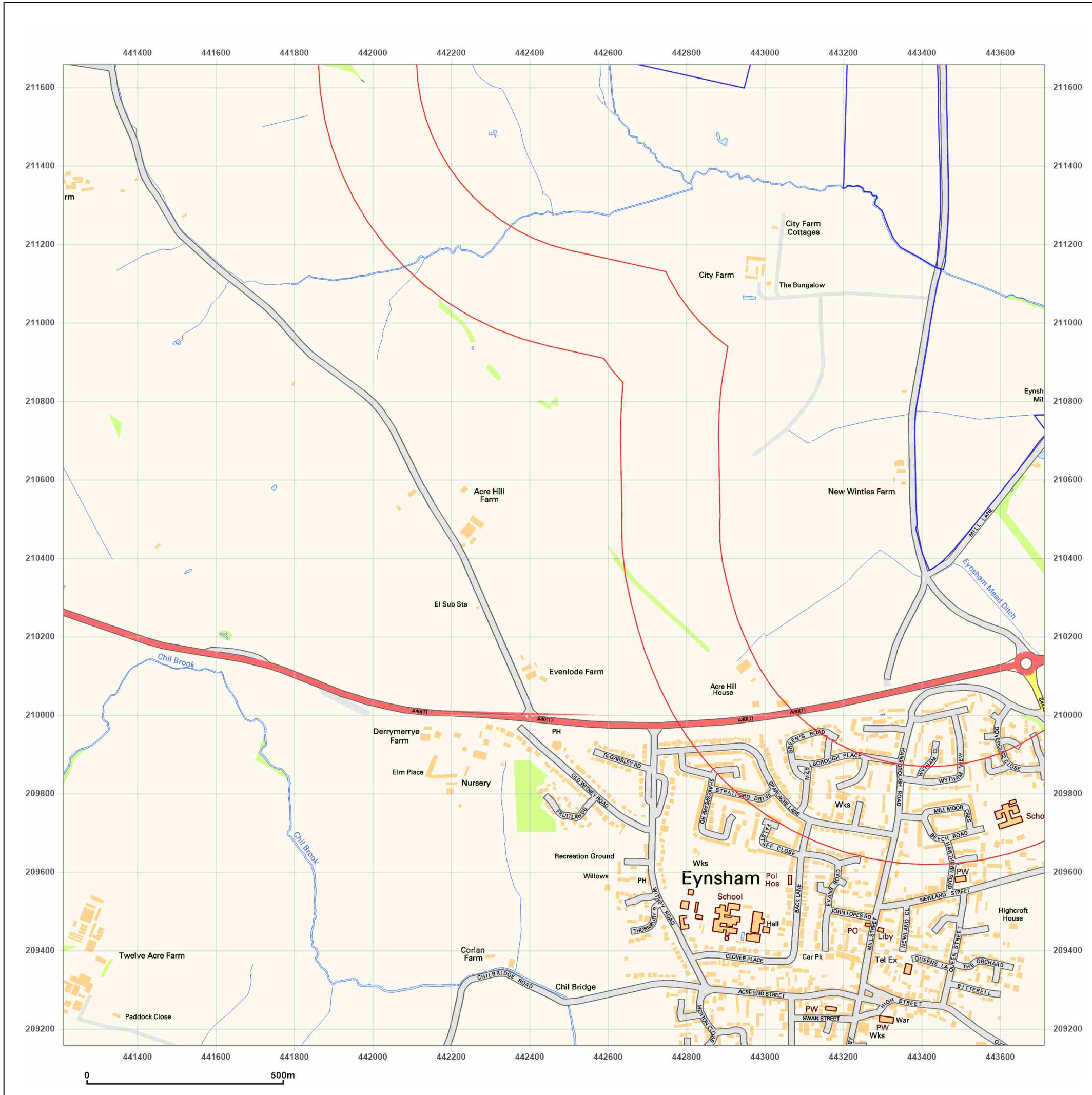
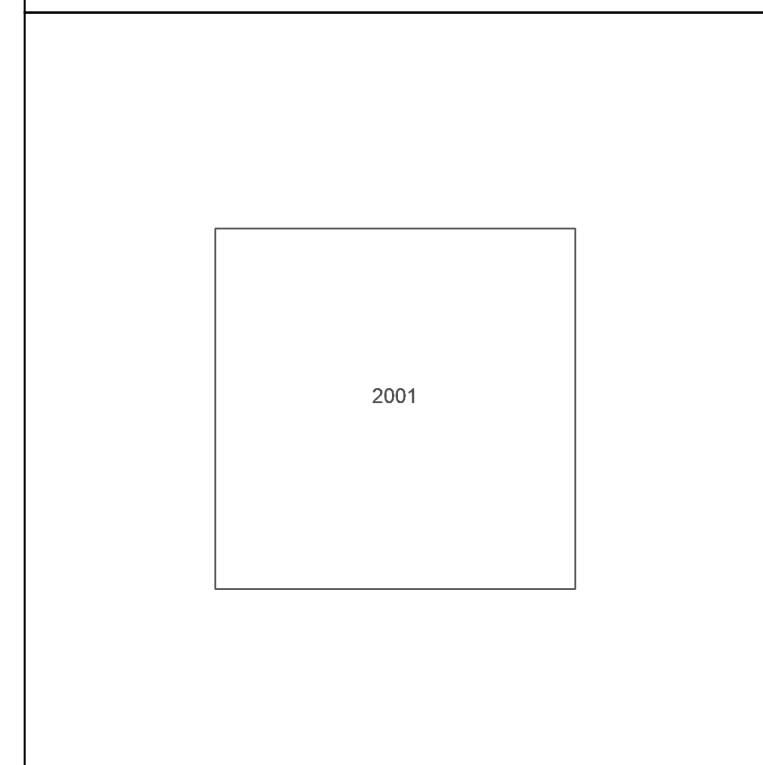
Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_1
Grid Ref: 442462, 210408

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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Production date: 25 May 2022

Map legend available at: [Redacted]

Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_1
Grid Ref: 442462, 210408

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

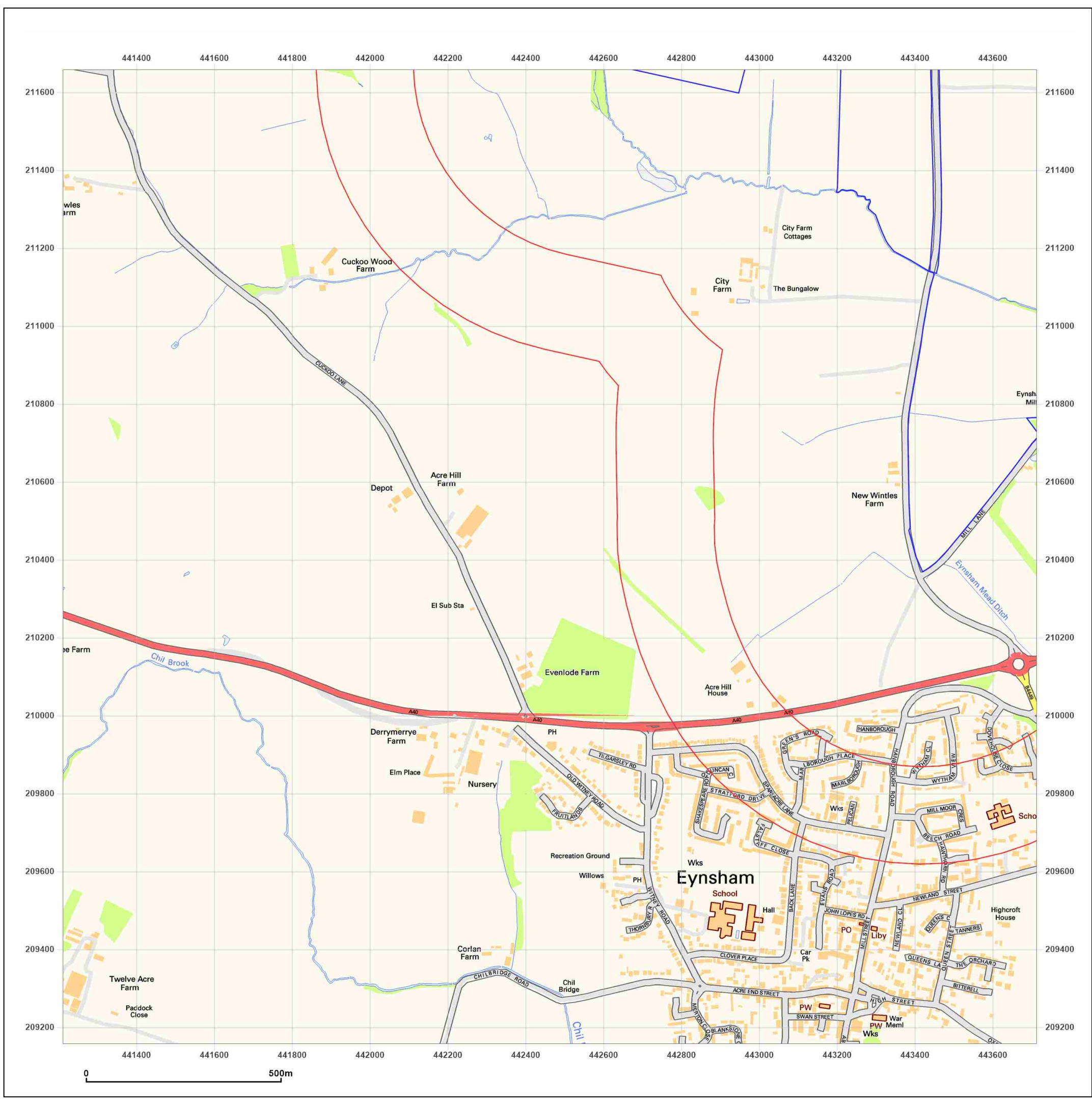


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

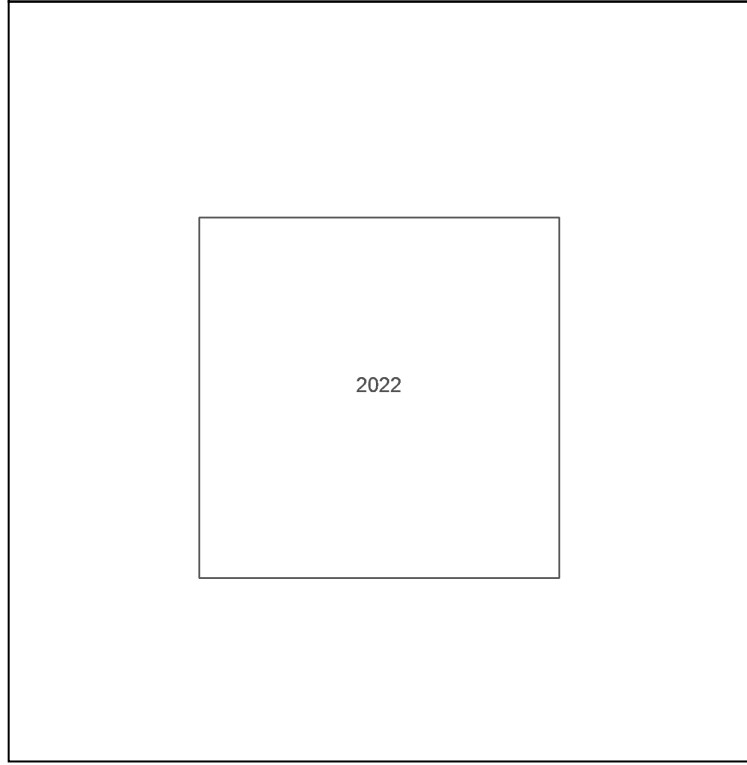
Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_1
Grid Ref: 442462, 210408

Map Name: National Grid

Map date: 2022

Scale: 1:10,000

Printed at: 1:10,000



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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_2
Grid Ref: 442462, 212908

Map Name: County Series

Map date: 1876-1880

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1880
 Revised 1880
 Edition N/A
 Copyright N/A
 Levelled N/A



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

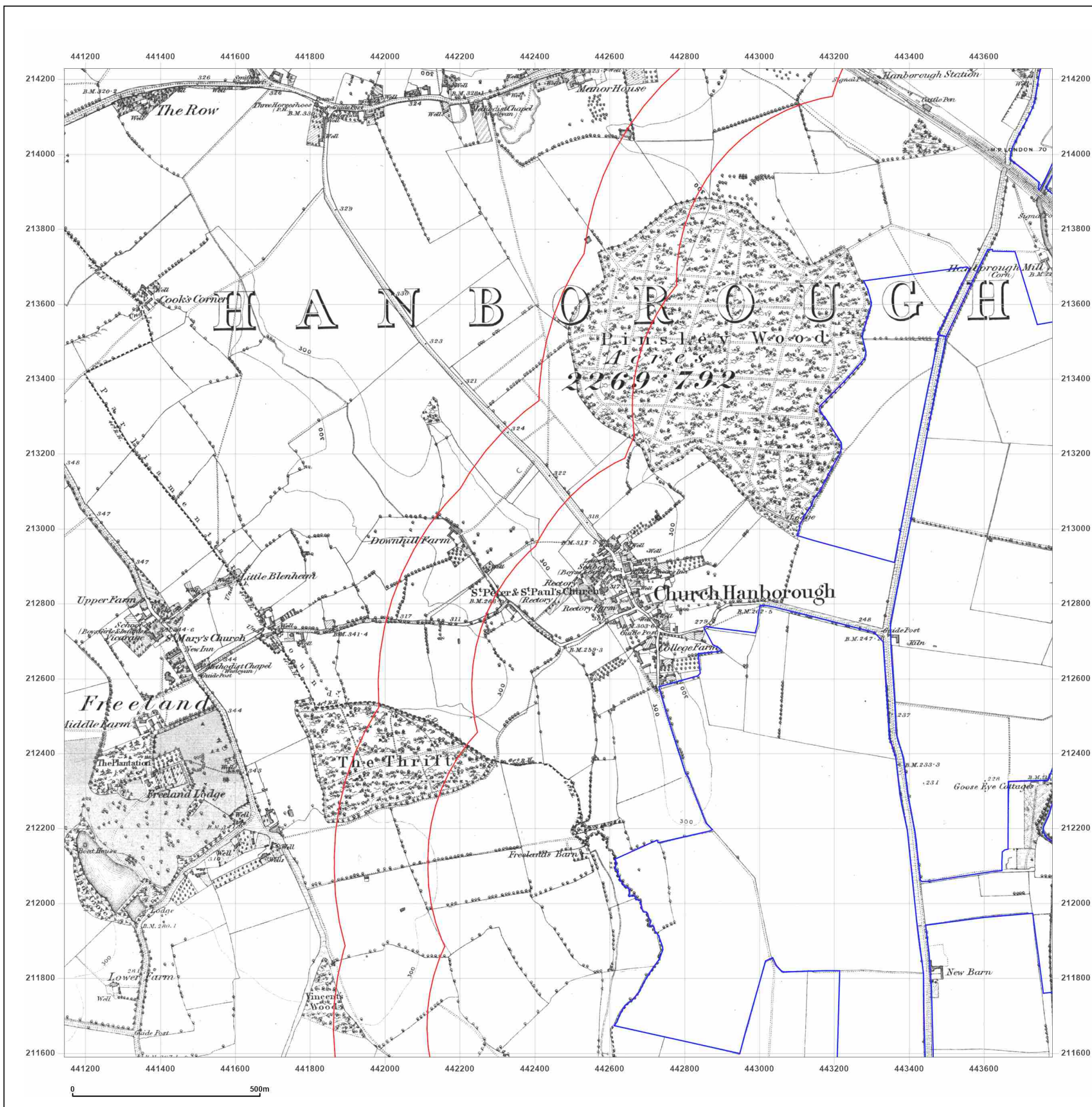


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_2
Grid Ref: 442462, 212908

Map Name: County Series

Map date: 1898-1900

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1875
 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

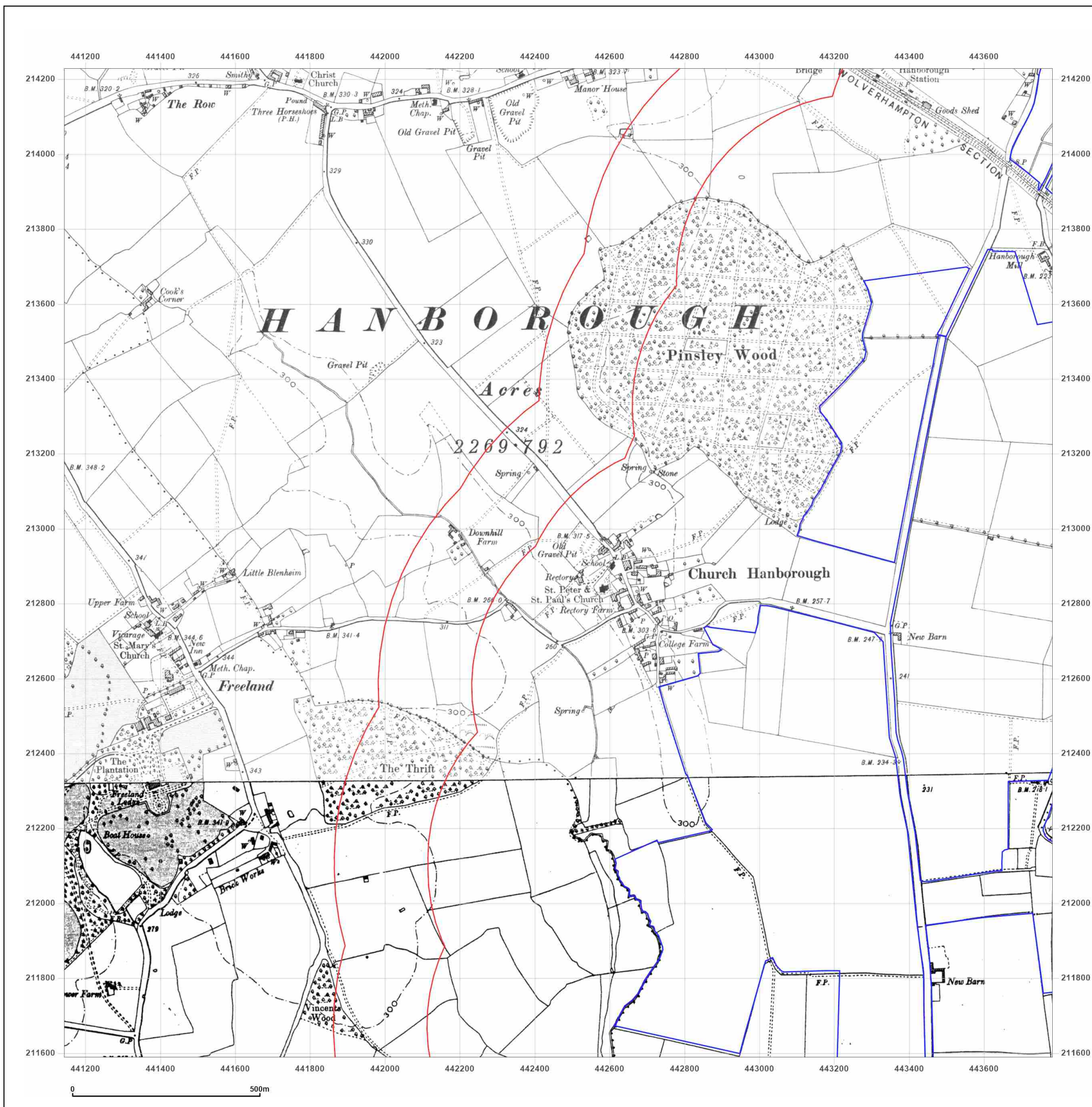


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Production date: 25 May 2022

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Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_2
Grid Ref: 442462, 212908

Map Name: County Series

Map date: 1900

Scale: 1:10,560

Printed at: 1:10,560



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

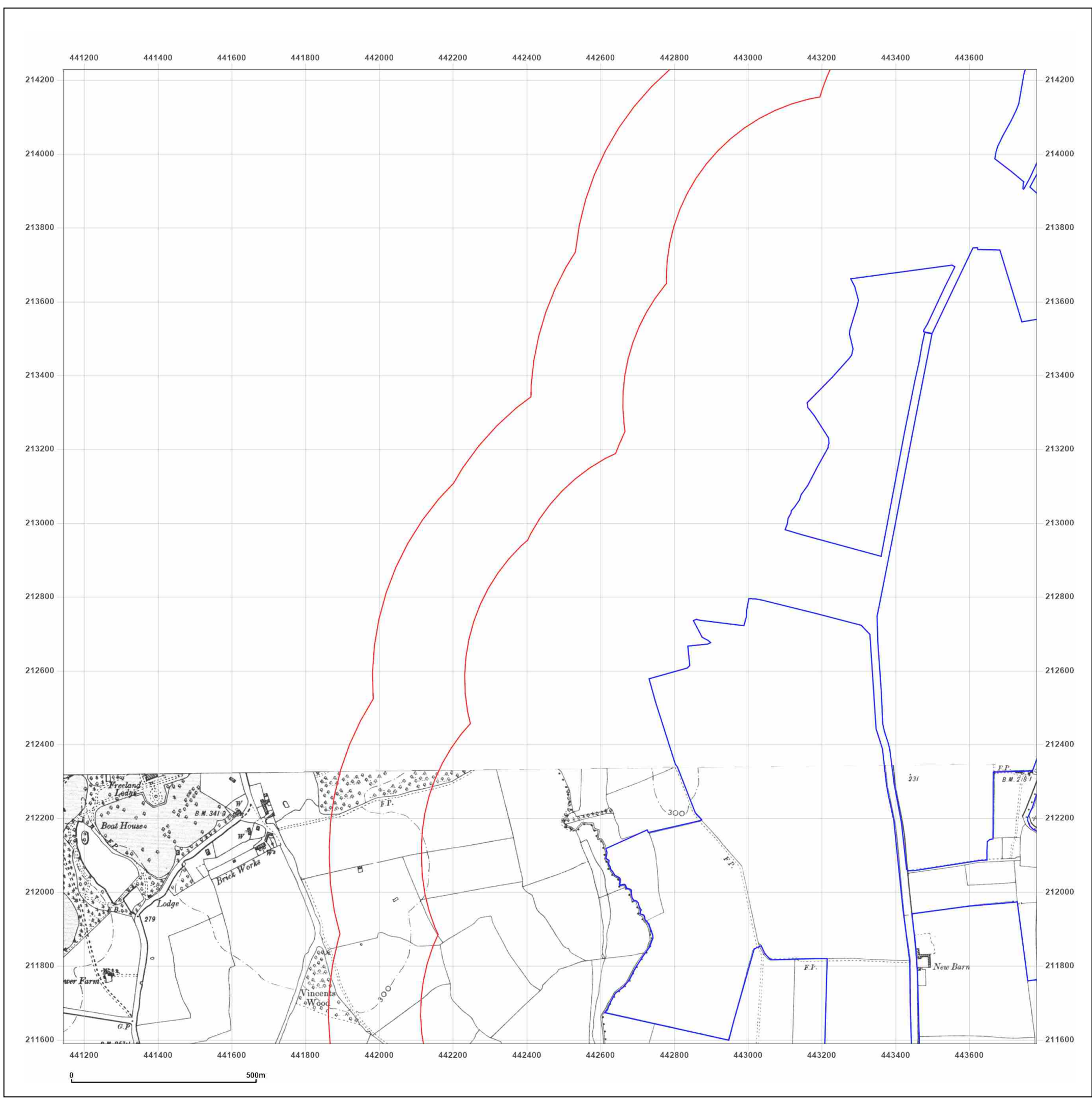


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Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_2
Grid Ref: 442462, 212908

Map Name: County Series

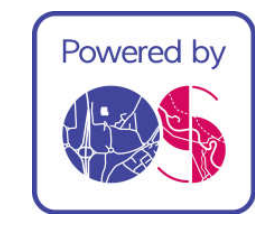
Map date: 1911

Scale: 1:10,560

Printed at: 1:10,560



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

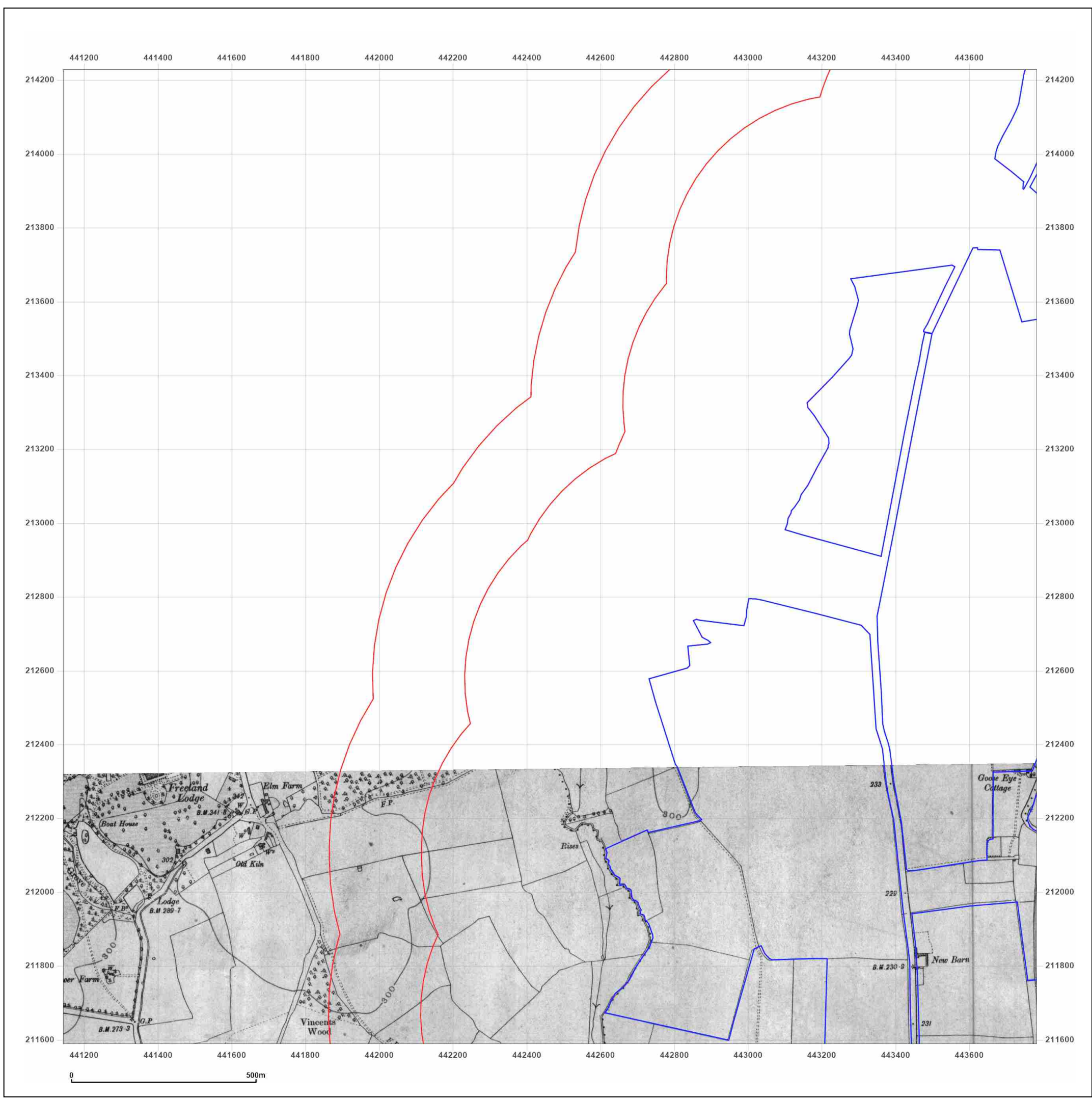


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Production date: 25 May 2022

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Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_2
Grid Ref: 442462, 212908

Map Name: County Series

Map date: 1914

Scale: 1:10,560

Printed at: 1:10,560



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

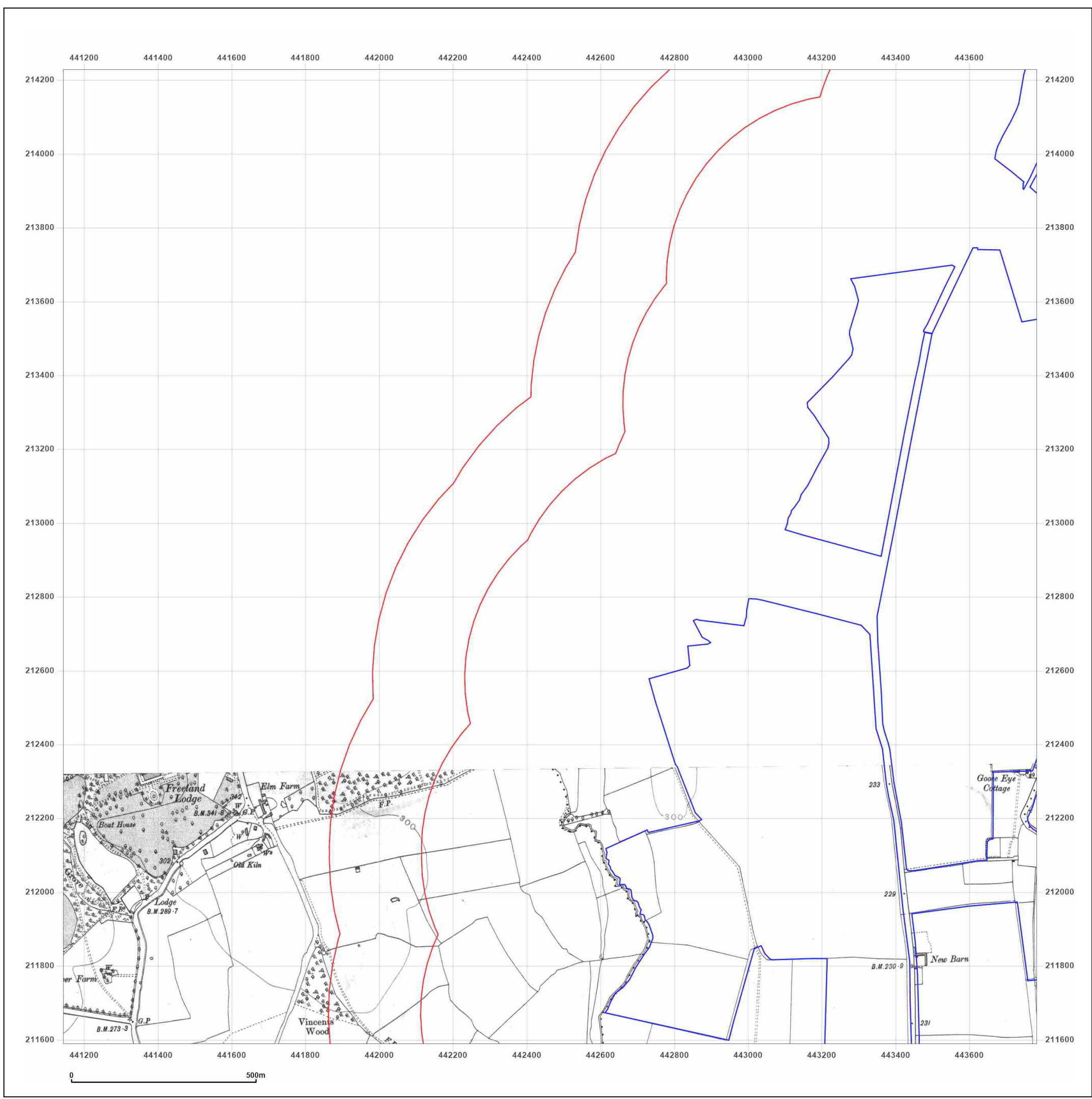


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Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_2
Grid Ref: 442462, 212908

Map Name: County Series

Map date: 1914

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1872
 Revised 1914
 Edition 1914
 Copyright N/A
 Levelled N/A

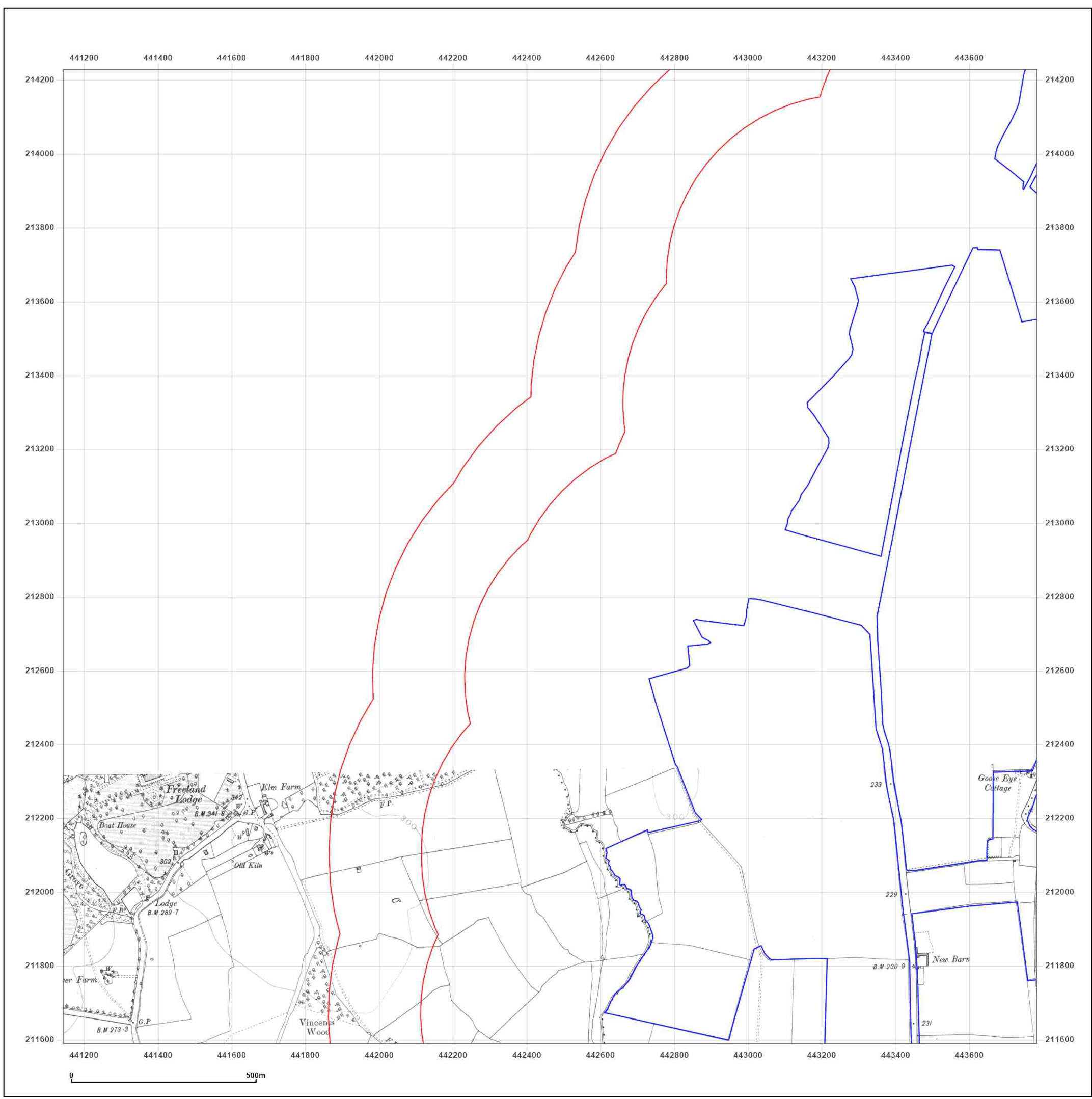


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Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_2
Grid Ref: 442462, 212908

Map Name: County Series

Map date: 1922-1923

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1875
 Revised 1923
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1872
 Revised 1922
 Edition N/A
 Copyright N/A
 Levelled N/A

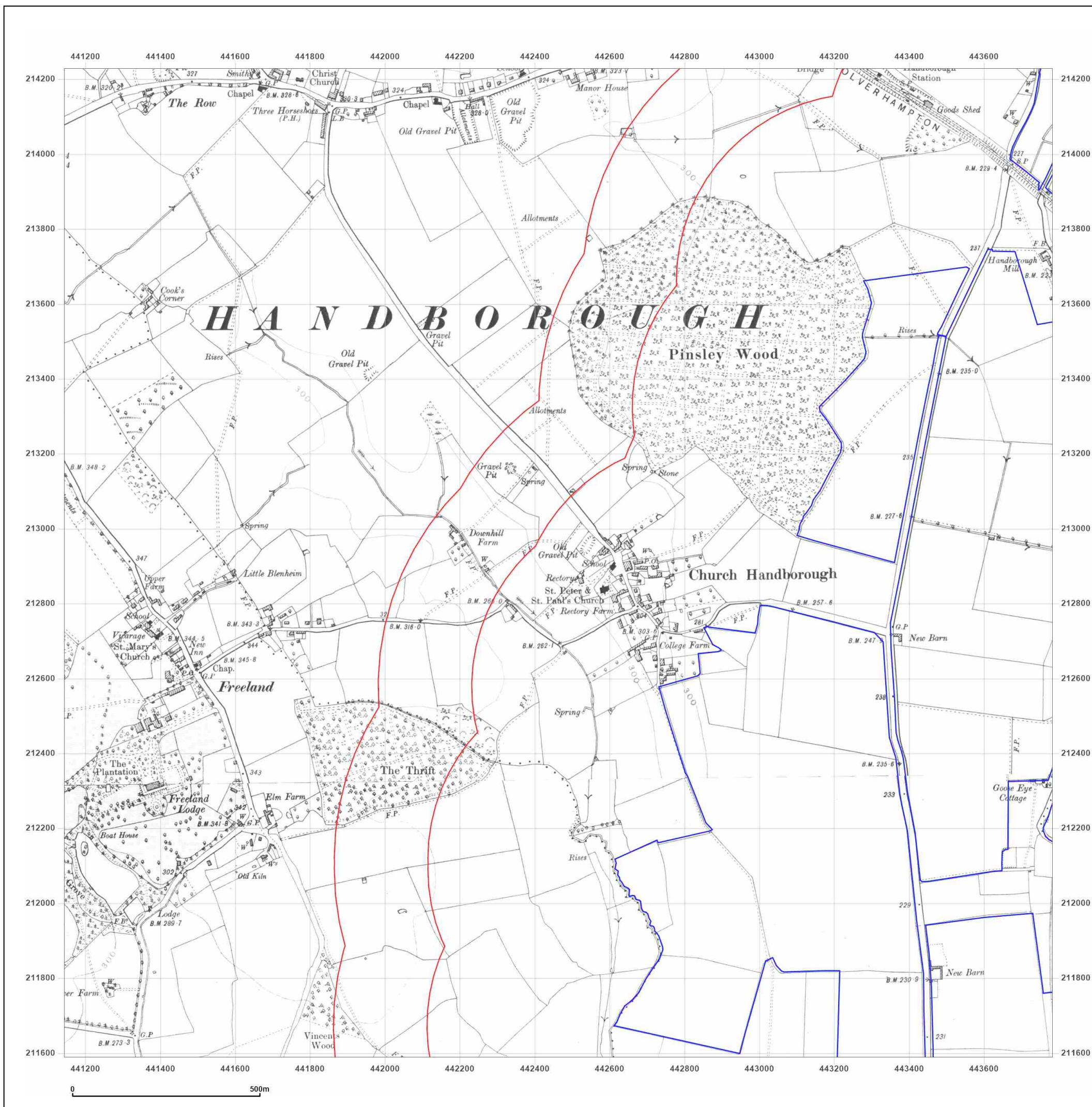


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0 500m

Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_2
Grid Ref: 442462, 212908

Map Name: County Series

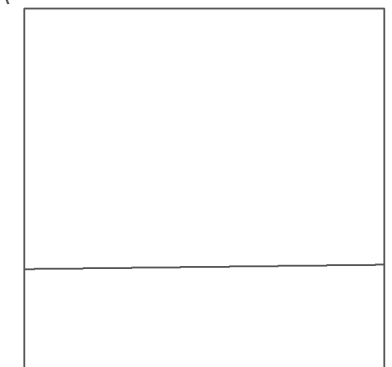
Map date: 1923

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1879
 Revised 1923
 Edition N/A
 Copyright N/A
 Levelled N/A

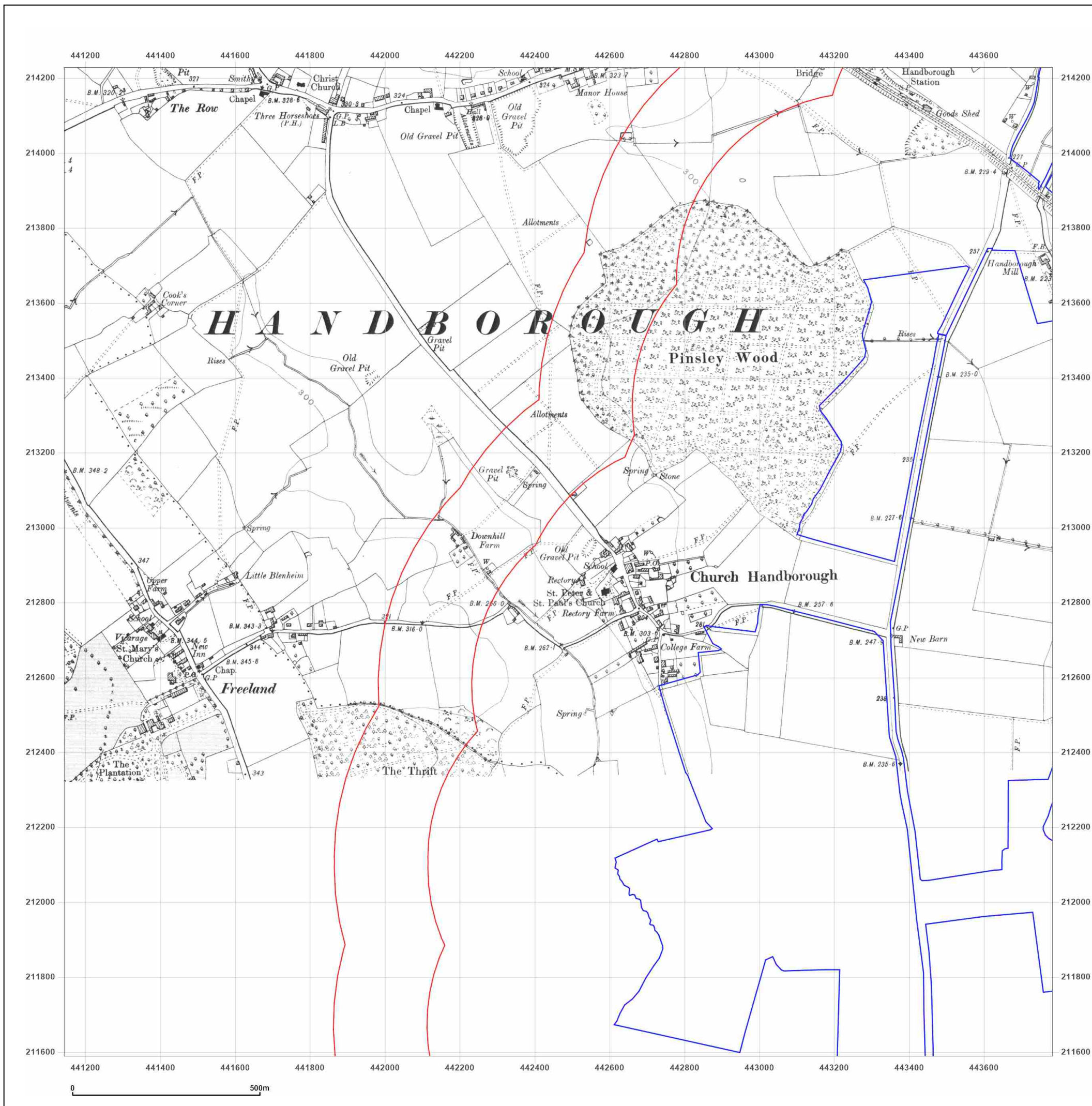


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Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_2
Grid Ref: 442462, 212908

Map Name: Provisional

Map date: 1955

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
 Revised 1954
 Edition 1955
 Copyright N/A
 Levelled N/A

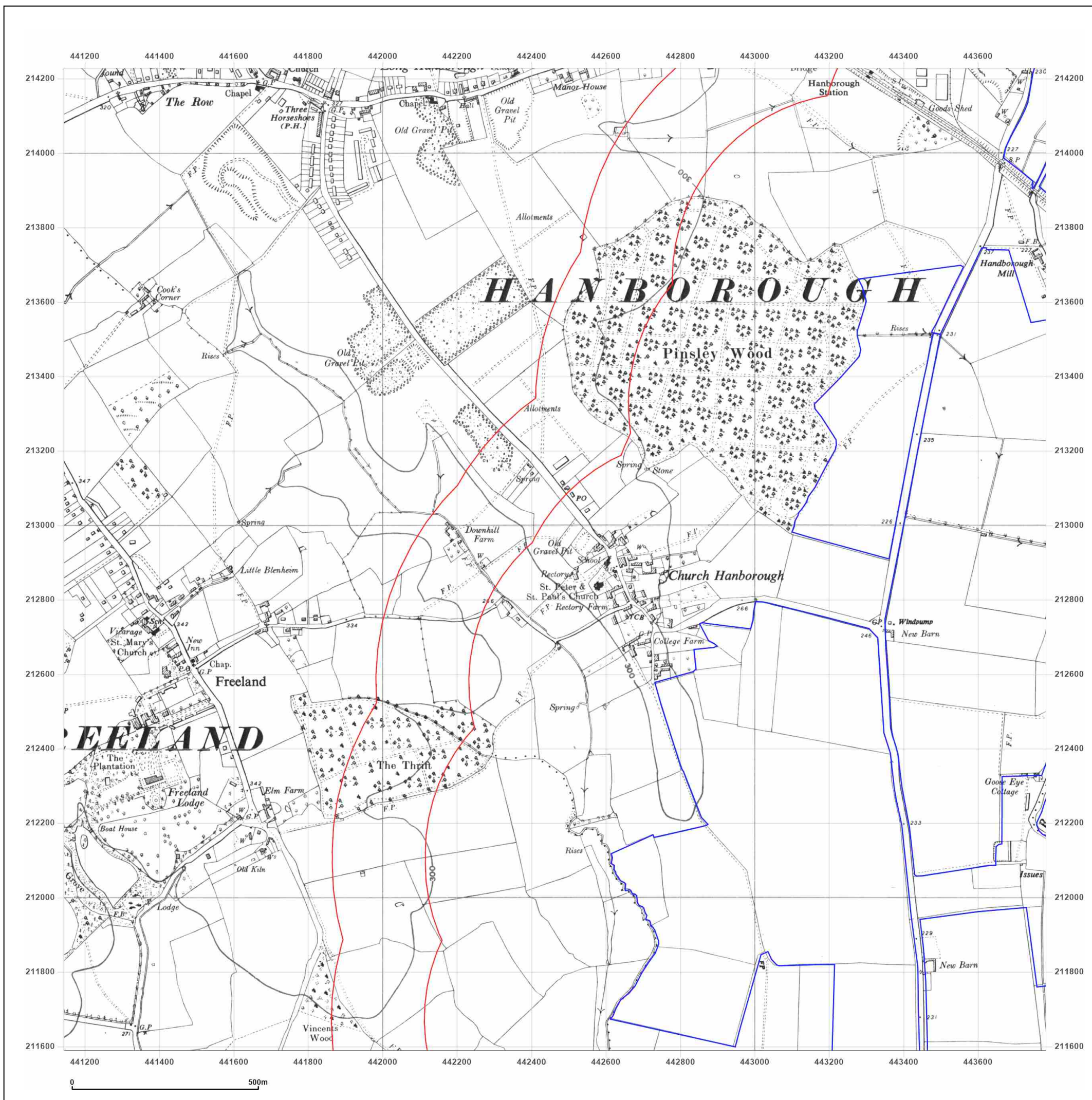


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_2
Grid Ref: 442462, 212908

Map Name: National Grid

Map date: 1980

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1972
 Revised 1979
 Edition N/A
 Copyright 1980
 Levelled 1974

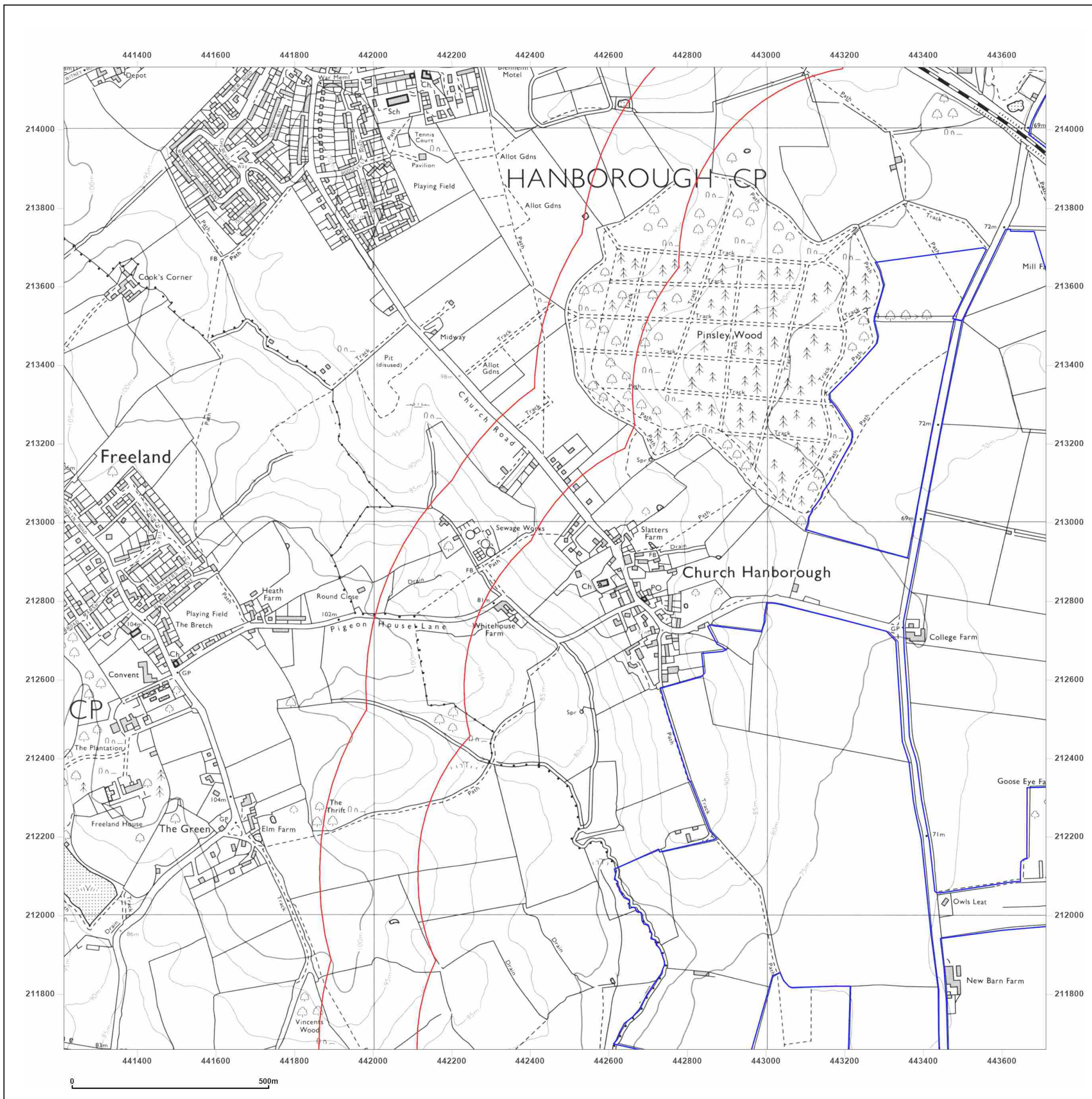


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Site Details:

Middle - BM Solar

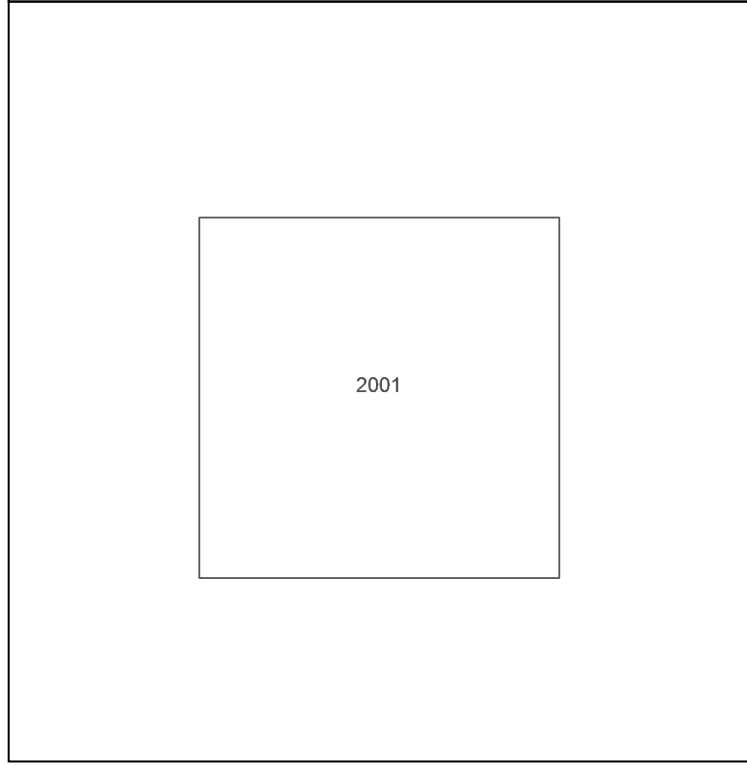
Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_2
Grid Ref: 442462, 212908

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

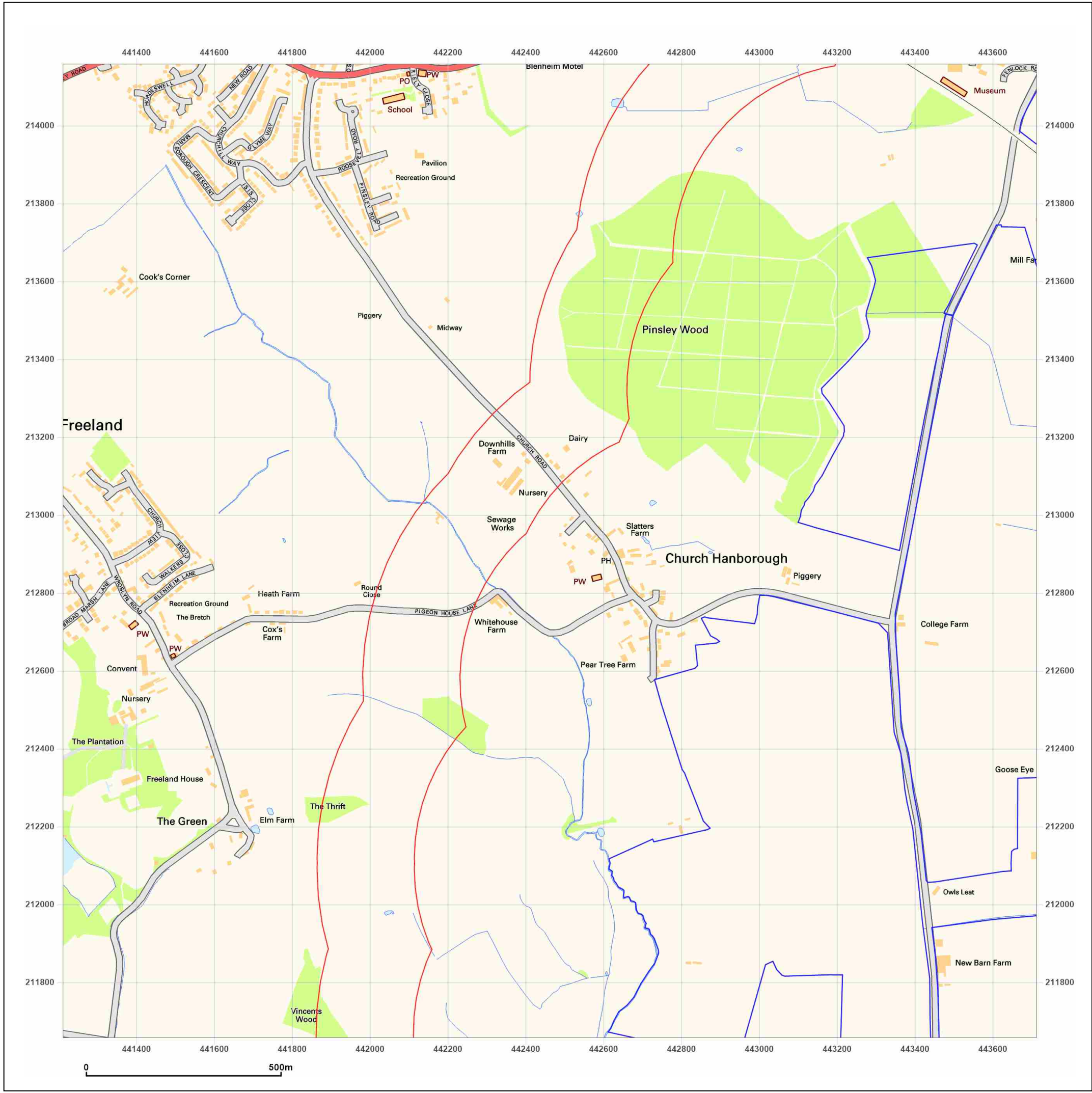


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Production date: 25 May 2022

Map legend available at:



Site Details:

Middle - BM Solar

Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_2
Grid Ref: 442462, 212908

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

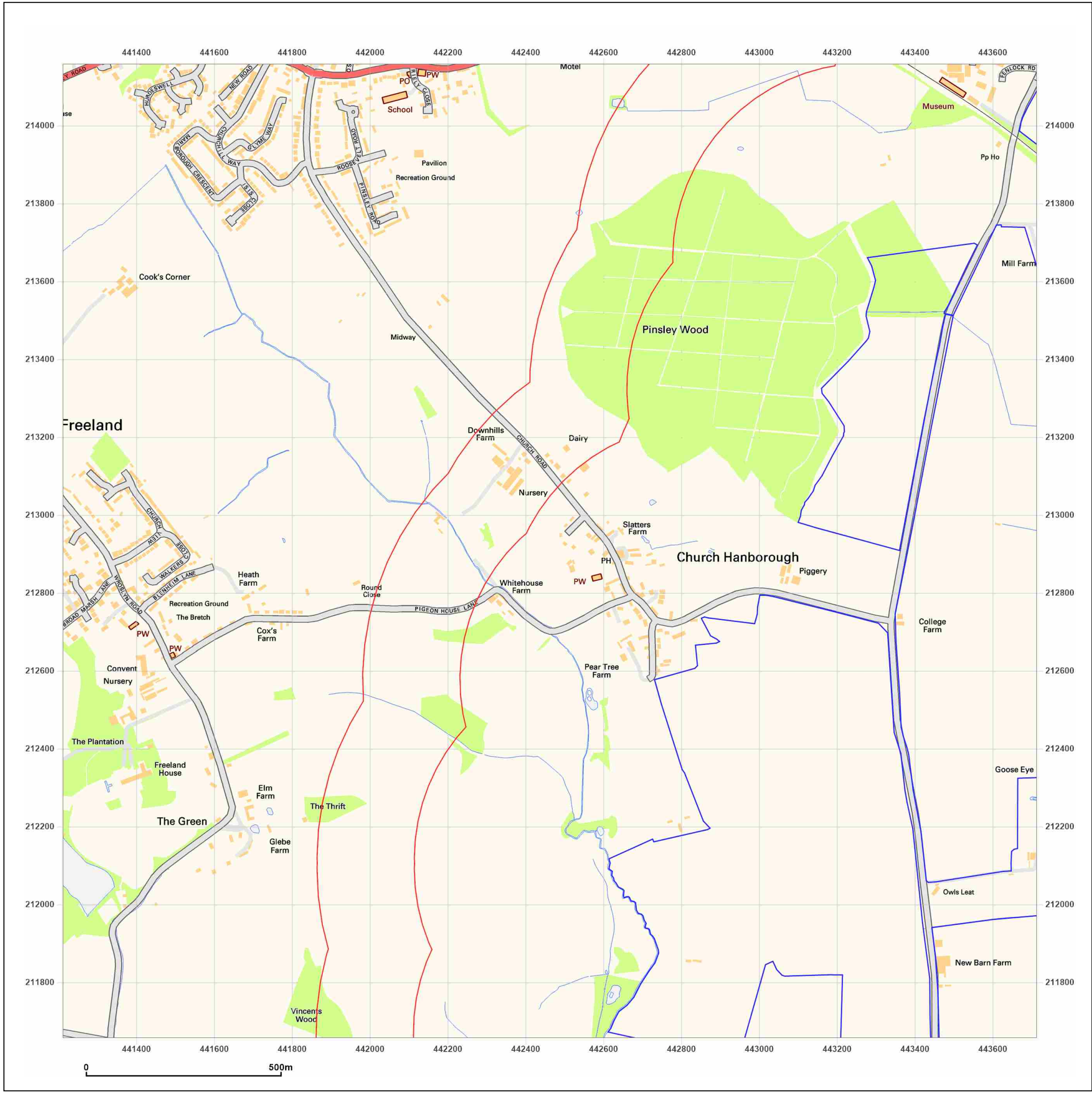


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Site Details:

Middle - BM Solar

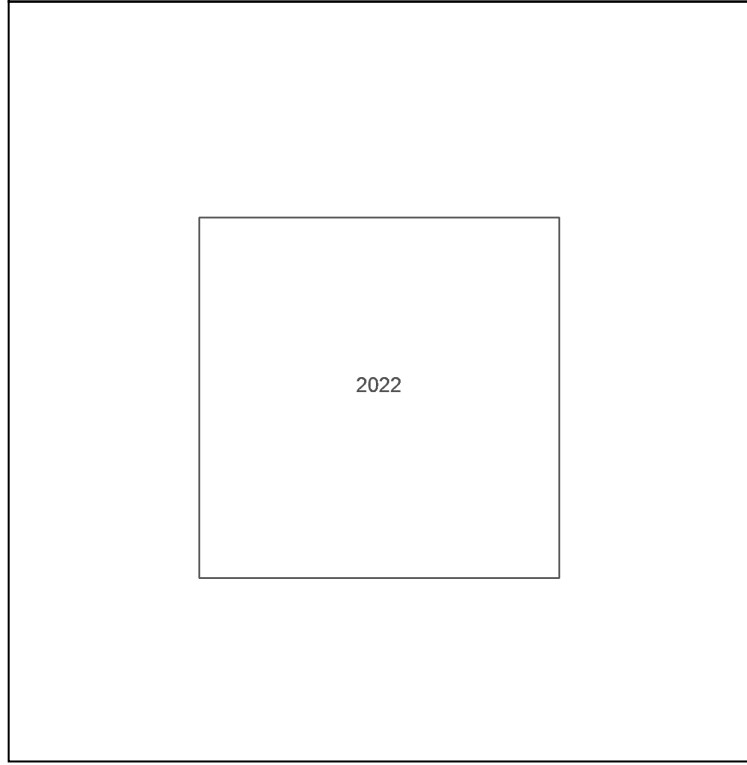
Client Ref: Middle - BM Solar
Report Ref: GSIP-2022-12757-10509_SS_1_2
Grid Ref: 442462, 212908

Map Name: National Grid

Map date: 2022

Scale: 1:10,000

Printed at: 1:10,000

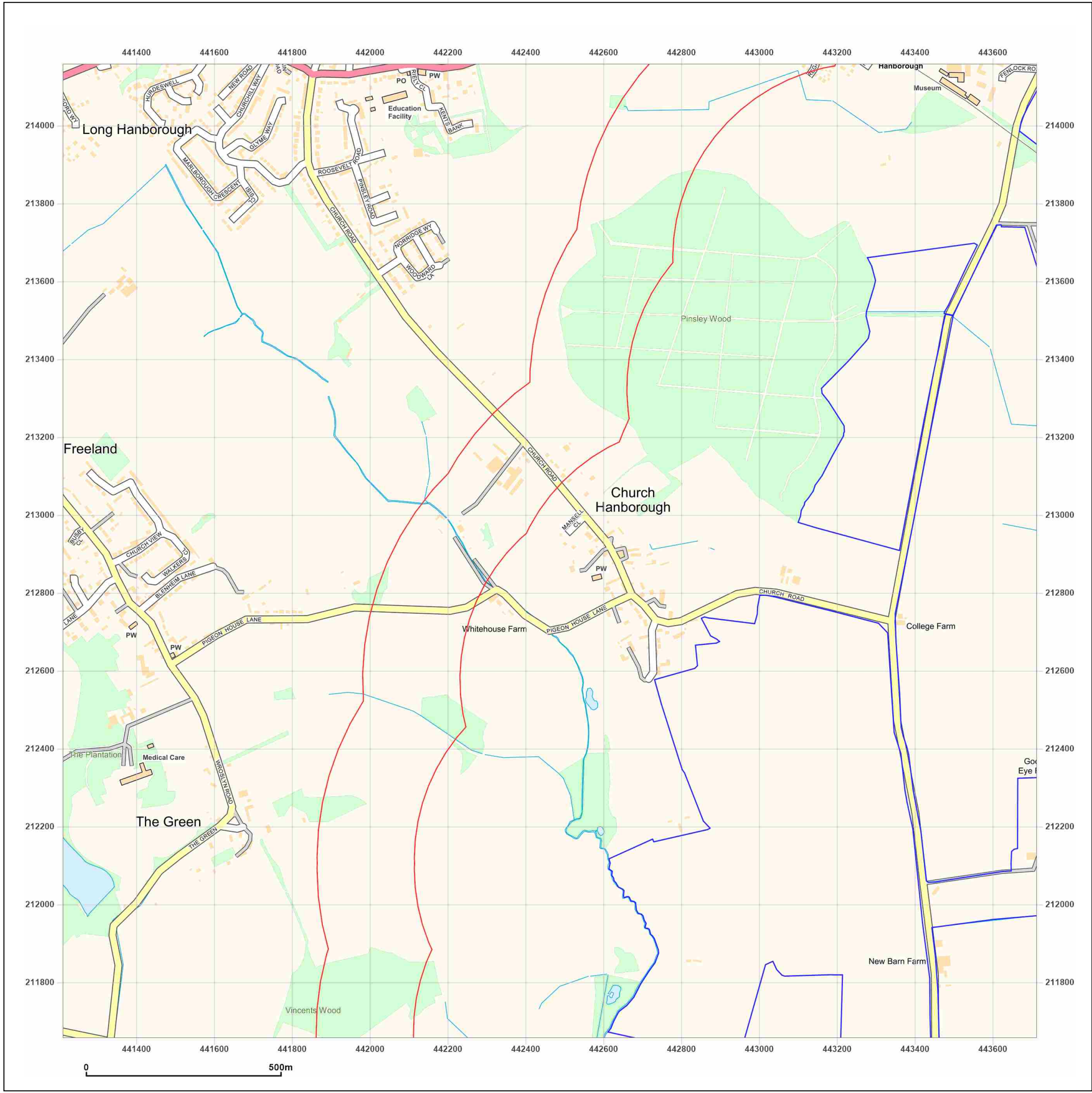


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Production date: 25 May 2022

Map legend available at:



Annex D Groundsure Insights Environmental Data Reports

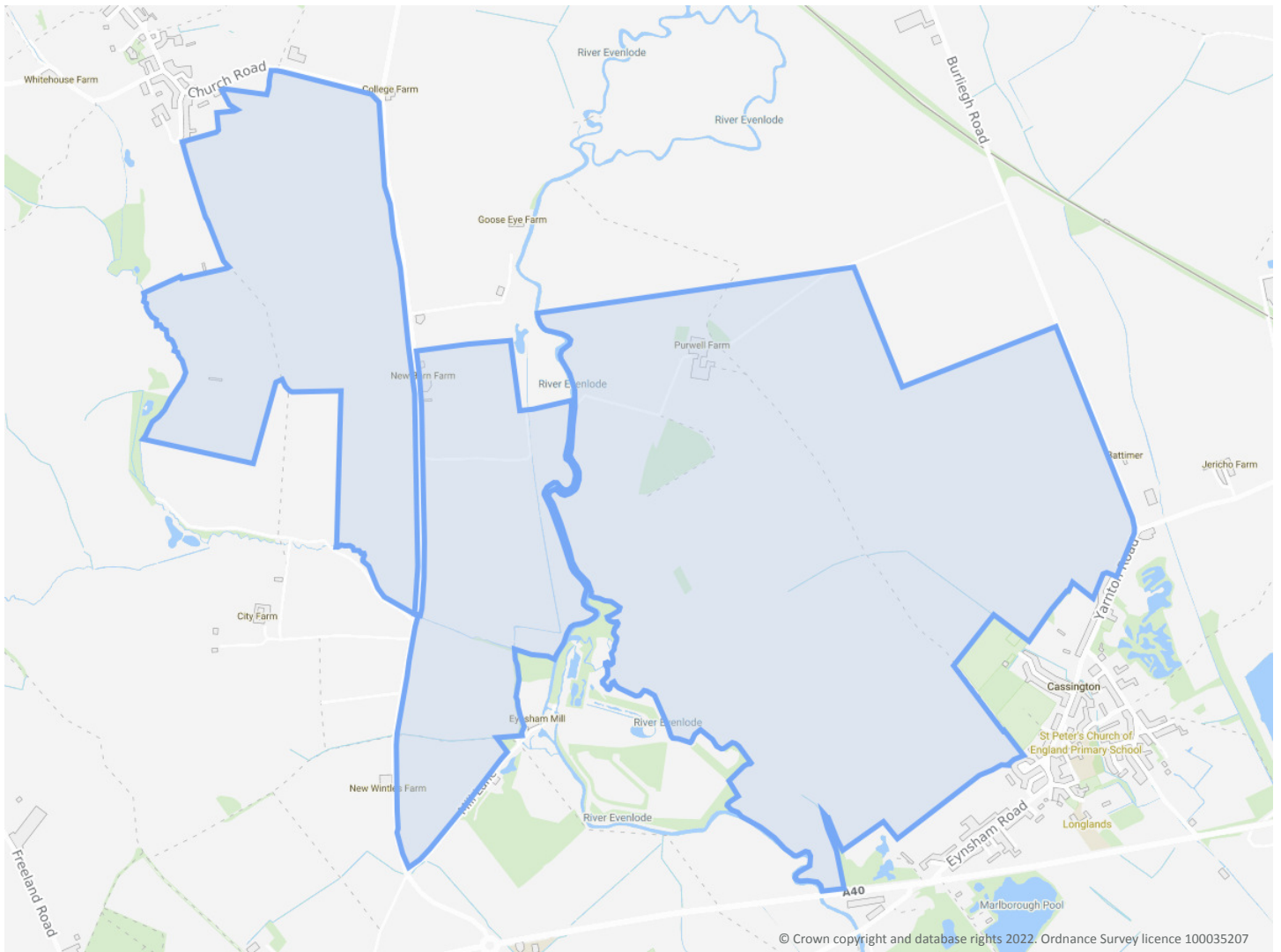
Middle - BM Solar

Order Details

Date: 24/05/2022
Your ref: Middle - BM Solar
Our Ref: GSIP-2022-12757-10510

Site Details

Location: 443854 211314
Area: 342.19 ha
Authority: [West Oxfordshire District Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

N/A: >10ha

Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	Historical industrial land uses	4	8	33	28	-
16	1.2	Historical tanks	0	0	2	1	-
17	1.3	Historical energy features	0	0	3	2	-
17	1.4	Historical petrol stations	0	0	0	2	-
18	1.5	Historical garages	0	1	2	1	-
18	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
19	2.1	Historical industrial land uses	4	9	36	36	-
23	2.2	Historical tanks	0	0	2	1	-
23	2.3	Historical energy features	0	0	8	6	-
24	2.4	Historical petrol stations	0	0	0	4	-
24	2.5	Historical garages	0	1	2	2	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
26	3.1	Active or recent landfill	0	0	0	0	-
26	3.2	Historical landfill (BGS records)	0	0	0	0	-
27	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
27	3.4	Historical landfill (EA/NRW records)	0	0	1	4	-
28	3.5	Historical waste sites	0	0	0	1	-
28	3.6	Licensed waste sites	0	0	6	9	-
34	3.7	Waste exemptions	0	18	11	5	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
37	4.1	Recent industrial land uses	0	0	14	-	-
38	4.2	Current or recent petrol stations	0	0	0	2	-
39	4.3	Electricity cables	0	0	0	0	-
39	4.4	Gas pipelines	0	0	0	0	-
39	4.5	Sites determined as Contaminated Land	0	0	0	0	-



39	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
39	4.7	Regulated explosive sites	0	0	0	0	-
40	4.8	Hazardous substance storage/usage	0	0	0	0	-
40	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
40	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
40	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	2	1	-
41	4.12	Radioactive Substance Authorisations	0	0	0	0	-
41	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	6	9	-
43	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
44	4.15	Pollutant release to public sewer	0	0	0	0	-
44	4.16	List 1 Dangerous Substances	0	0	0	0	-
44	4.17	List 2 Dangerous Substances	0	0	0	0	-
44	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	1	7	-
45	4.19	Pollution inventory substances	0	0	0	0	-
46	4.20	Pollution inventory waste transfers	0	0	0	0	-
46	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
47	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)				
63	5.4	<u>Groundwater vulnerability- soluble rock risk</u>	Identified (within 0m)				
64	5.5	Groundwater vulnerability- local information	None (within 0m)				
65	5.6	<u>Groundwater abstractions</u>	0	0	2	2	2
67	5.7	<u>Surface water abstractions</u>	0	0	0	0	6
68	5.8	<u>Potable abstractions</u>	0	0	0	0	2
69	5.9	Source Protection Zones	0	0	0	0	-
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	<u>Water Network (OS MasterMap)</u>	24	43	55	-	-



80	6.2	<u>Surface water features</u>	1	20	39	-	-
80	6.3	<u>WFD Surface water body catchments</u>	2	-	-	-	-
81	6.4	<u>WFD Surface water bodies</u>	1	0	1	-	-
81	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
82	7.1	<u>Risk of flooding from rivers and the sea</u>	High (within 50m)				
83	7.2	<u>Historical Flood Events</u>	76	45	98	-	-
95	7.3	Flood Defences	0	0	0	-	-
96	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
96	7.5	Flood Storage Areas	0	0	0	-	-
97	7.6	<u>Flood Zone 2</u>	Identified (within 50m)				
98	7.7	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
99	8.1	<u>Surface water flooding</u>	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
101	9.1	<u>Groundwater flooding</u>	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
102	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	0	6
103	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
103	10.3	<u>Special Areas of Conservation (SAC)</u>	0	0	0	0	2
104	10.4	Special Protection Areas (SPA)	0	0	0	0	0
104	10.5	National Nature Reserves (NNR)	0	0	0	0	0
104	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
104	10.7	<u>Designated Ancient Woodland</u>	0	0	1	1	31
106	10.8	Biosphere Reserves	0	0	0	0	0
106	10.9	Forest Parks	0	0	0	0	0
106	10.10	Marine Conservation Zones	0	0	0	0	0
106	10.11	<u>Green Belt</u>	1	0	0	0	2
107	10.12	Proposed Ramsar sites	0	0	0	0	0



107	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
107	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
107	10.15	Nitrate Sensitive Areas	0	0	0	0	0
108	10.16	<u>Nitrate Vulnerable Zones</u>	3	0	0	0	8
109	10.17	<u>SSSI Impact Risk Zones</u>	10	-	-	-	-
114	10.18	<u>SSSI Units</u>	0	0	0	0	9
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
117	11.1	World Heritage Sites	0	0	0	-	-
118	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
118	11.3	National Parks	0	0	0	-	-
118	11.4	<u>Listed Buildings</u>	0	3	23	-	-
120	11.5	<u>Conservation Areas</u>	1	1	0	-	-
120	11.6	Scheduled Ancient Monuments	0	0	0	-	-
121	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
122	12.1	<u>Agricultural Land Classification</u>	Grade 2 (within 250m)				
124	12.2	Open Access Land	0	0	0	-	-
124	12.3	<u>Tree Felling Licences</u>	0	4	0	-	-
125	12.4	<u>Environmental Stewardship Schemes</u>	1	4	4	-	-
125	12.5	<u>Countryside Stewardship Schemes</u>	0	1	3	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
127	13.1	<u>Priority Habitat Inventory</u>	8	18	35	-	-
130	13.2	<u>Habitat Networks</u>	2	0	2	-	-
130	13.3	Open Mosaic Habitat	0	0	0	-	-
130	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
132	14.1	<u>10k Availability</u>	Identified (within 500m)				
133	14.2	<u>Artificial and made ground (10k)</u>	2	2	3	3	-
135	14.3	<u>Superficial geology (10k)</u>	1	0	2	3	-



136	14.4	Landslip (10k)	0	0	0	0	-
137	14.5	<u>Bedrock geology (10k)</u>	1	0	0	1	-
138	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
139	15.1	<u>50k Availability</u>	Identified (within 500m)				
140	15.2	<u>Artificial and made ground (50k)</u>	5	2	4	3	-
141	15.3	Artificial ground permeability (50k)	0	0	-	-	-
142	15.4	<u>Superficial geology (50k)</u>	8	0	7	5	-
143	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
144	15.6	Landslip (50k)	0	0	0	0	-
144	15.7	Landslip permeability (50k)	None (within 50m)				
145	15.8	<u>Bedrock geology (50k)</u>	7	0	3	3	-
146	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
147	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
148	16.1	<u>BGS Boreholes</u>	16	3	21	-	-
Page	Section	Natural ground subsidence					
151	17.1	<u>Shrink swell clays</u>	Moderate (within 50m)				
153	17.2	<u>Running sands</u>	Low (within 50m)				
155	17.3	<u>Compressible deposits</u>	Moderate (within 50m)				
157	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
158	17.5	<u>Landslides</u>	Moderate (within 50m)				
160	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
162	18.1	Natural cavities	0	0	0	0	-
163	18.2	<u>BritPits</u>	4	2	9	8	-
167	18.3	<u>Surface ground workings</u>	3	3	31	-	-
168	18.4	Underground workings	0	0	0	0	0
168	18.5	<u>Historical Mineral Planning Areas</u>	7	2	2	3	-

169	18.6	Non-coal mining	0	0	0	0	0
170	18.7	Mining cavities	0	0	0	0	0
170	18.8	JPB mining areas	None (within 0m)				
170	18.9	Coal mining	None (within 0m)				
170	18.10	Brine areas	None (within 0m)				
170	18.11	Gypsum areas	None (within 0m)				
171	18.12	Tin mining	None (within 0m)				
171	18.13	Clay mining	None (within 0m)				

Page	Section	Radon					
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172 **19.1** **Radon** **Less than 1% (within 0m)**

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
173	20.1	BGS Estimated Background Soil Chemistry	137	19	-	-	-
182	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
182	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
183	21.1	Underground railways (London)	0	0	0	-	-
183	21.2	Underground railways (Non-London)	0	0	0	-	-
183	21.3	Railway tunnels	0	0	0	-	-
183	21.4	Historical railway and tunnel features	0	0	0	-	-
183	21.5	Royal Mail tunnels	0	0	0	-	-
184	21.6	Historical railways	0	0	0	-	-
184	21.7	Railways	0	0	0	-	-
184	21.8	Crossrail 1	0	0	0	0	-
184	21.9	Crossrail 2	0	0	0	0	-
184	21.10	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 24/08/2019

Site Area: 342.19ha



Contact us with any questions at:

info@groundsure.com

08444 159 000

Date: 24 May 2022

Recent site history - 2018 aerial photograph



Capture Date: 28/06/2018

Site Area: 342.19ha



Contact us with any questions at:

info@groundsure.com

08444 159 000

Date: 24 May 2022

Recent site history - 2009 aerial photograph



Capture Date: 19/08/2009

Site Area: 342.19ha



Contact us with any questions at:

info@groundsure.com

08444 159 000

Date: 24 May 2022



Recent site history - 2000 aerial photograph



Capture Date: 12/08/2000

Site Area: 342.19ha



Contact us with any questions at:

info@groundsure.com

08444 159 000

Date: 24 May 2022

Recent site history - 1999 aerial photograph



Capture Date: 02/09/1999

Site Area: 342.19ha



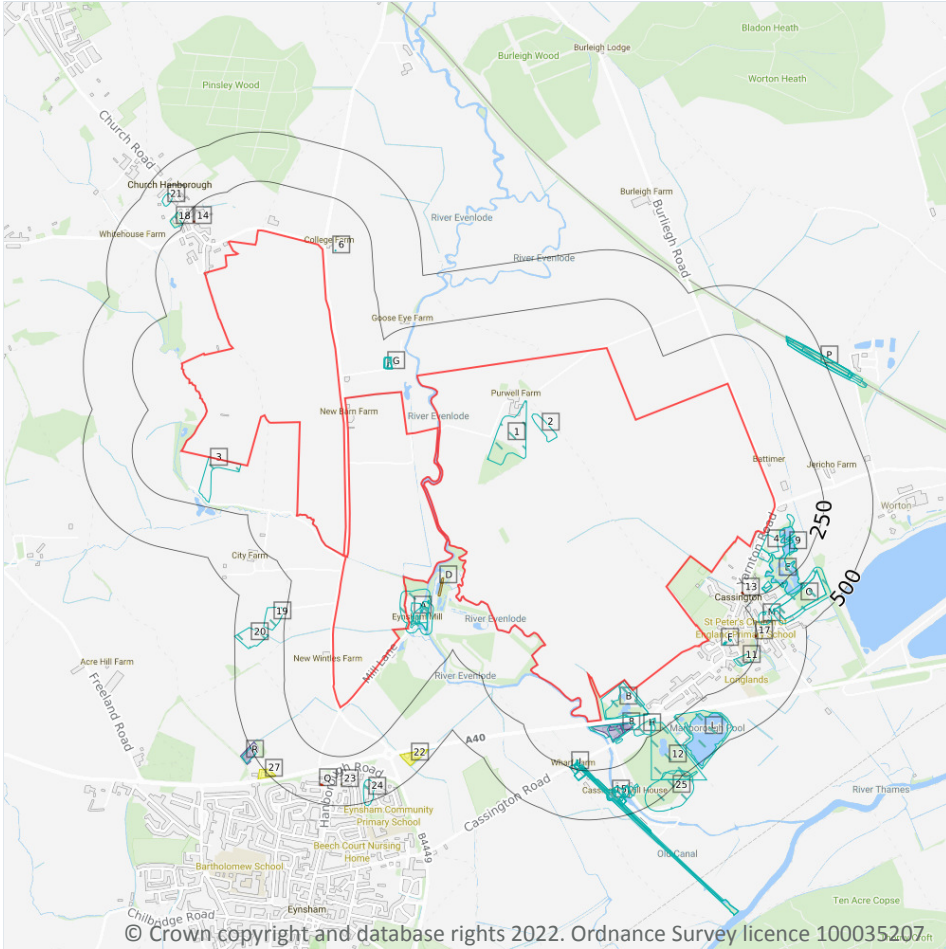
Contact us with any questions at:

info@groundsure.com

08444 159 000

Date: 24 May 2022

1 Past land use



Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations
- Historical garages

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1.1 Historical industrial land uses

Records within 500m **73**

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 13**

ID	Location	Land use	Dates present	Group ID
1	On site	Disused Sand Pit	1950	1757320



ID	Location	Land use	Dates present	Group ID
2	On site	Unspecified Pit	1950	1778296
3	On site	Unspecified Disused Pit	1978	1766741
A	On site	Unspecified Mills	1900	1798097
B	0m SW	Unspecified Disused Pit	1978	1766742
B	2m SE	Unspecified Pit	1950	1778294
A	7m E	Paper Mill	1876	1773121
A	8m E	Unspecified Disused Mills	1914 - 1922	1815872
4	18m SE	Nursery	1992	1772309
C	29m S	Garage	1978	1780270
A	32m E	Unspecified Mill	1978	1758805
A	50m E	Unspecified Mills	1900	1832307
C	53m SE	Unspecified Pit	1950	1778295
5	57m SE	Unspecified Depot	1992	1764000
6	62m E	Unspecified Kiln	1880	1769408
E	71m E	Unspecified Disused Pit	1979	1818332
E	71m E	Unspecified Disused Pit	1992	1830357
F	78m E	Smithy	1914	1840018
F	78m E	Smithy	1922	1807652
F	83m E	Smithy	1900	1826864
7	89m S	Boat House	1876	1763371
F	107m E	Smithy	1900	1779760
G	120m N	Unspecified Pit	1876	1793923
G	124m N	Unspecified Pit	1922	1834844
G	124m N	Unspecified Pit	1914	1810048
G	127m N	Unspecified Pit	1950	1831051
9	130m E	Unspecified Pit	1938	1778282
10	136m SE	Sand Pit	1876	1753274
11	162m SE	Grave Yard	1876	1762904



ID	Location	Land use	Dates present	Group ID
H	174m SE	Unspecified Works	1978	1771575
12	177m SE	Disused Workings	1992	1761787
H	192m SE	Unspecified Disused Pit	1979	1766743
I	200m SE	Unspecified Depot	1992	1784315
15	203m S	Old Canal	1970 - 1988	1793503
16	204m S	Old Canal	1900	1841061
J	210m S	Unspecified Wharf	1900	1819258
K	214m S	Old Canal	1914	1781608
K	216m S	Old Canal	1922	1828878
J	217m S	Unspecified Wharf	1876 - 1900	1806482
I	219m S	Unspecified Depot	1979	1787846
J	223m S	Unspecified Wharf	1914	1829106
J	224m S	Unspecified Wharf	1922	1799593
J	226m S	Unspecified Wharf	1950	1847046
L	233m SE	Unspecified Pit	1968	1778290
18	249m W	Grave Yard	1880	1762903
19	258m W	Gravel Pit	1978	1758019
M	276m E	Refuse Heap	1922	1770812
L	296m SE	Unspecified Disused Pit	1979	1766746
N	297m S	Old Canal	1956	1838461
O	304m SE	Burial Ground	1968	1759834
M	307m NE	Unspecified Ground Workings	1900	1755492
O	327m SE	Unspecified Disused Pit	1979	1816470
O	327m SE	Unspecified Disused Pit	1992	1788961
20	328m W	Gravel Pit	1978	1758018
N	347m S	Unspecified Mill	1900	1833774
N	350m S	Corn Mill	1914 - 1922	1812045
N	357m S	Unspecified Mill	1900	1839793



ID	Location	Land use	Dates present	Group ID
21	358m NW	Old Gravel Pit	1898 - 1950	1810155
P	363m NE	Cuttings	1900 - 1968	1836004
P	364m NE	Cuttings	1876	1785630
P	367m NE	Cuttings	1914	1788719
N	370m SE	Corn Mill	1876	1818593
P	370m NE	Cuttings	1922 - 1938	1782313
P	371m NE	Cuttings	1900	1802321
N	372m SE	Unspecified Mill	1956	1758804
N	390m S	Unspecified Mill	1988	1804004
N	390m S	Unspecified Mill	1970	1846086
24	393m S	Old Gravel Pit	1956	1778676
P	412m NE	Cuttings	1979	1818893
P	412m NE	Cuttings	1992	1836417
25	418m SE	Unspecified Disused Pit	1971	1766745
26	418m SE	Unspecified Ground Workings	1968	1755510
R	489m SW	Garage	1978	1780268

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

3

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
D	52m SE	Tanks	1994	287702
D	62m SE	Tanks	1994	287701



ID	Location	Land use	Dates present	Group ID
23	390m S	Unspecified Tank	1969	285034

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	5
----------------------------	----------

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
13	184m SE	Electricity Substation	1972 - 1994	175980
14	200m NW	Electricity Substation	1972 - 1994	182437
17	238m E	Electricity Substation	1972 - 1994	181146
Q	400m S	Electricity Substation	1985 - 1987	182215
Q	403m S	Electricity Substation	1969 - 1995	184230

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	2
----------------------------	----------

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'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
22	378m SE	Filling Station	1985 - 1994	3153
27	477m SW	Filling Station	1985 - 1994	3208



This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

4

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
C	29m S	Garage	1994	55687
C	53m SE	Garage	1972	57296
8	97m E	Commercial Vehicle Repair Works	1972	54899
R	465m SW	Garage	1972 - 1994	58397

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

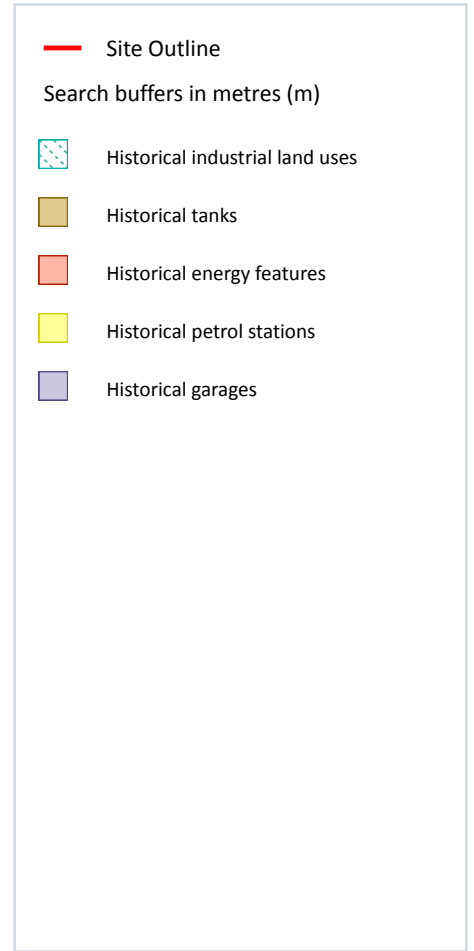
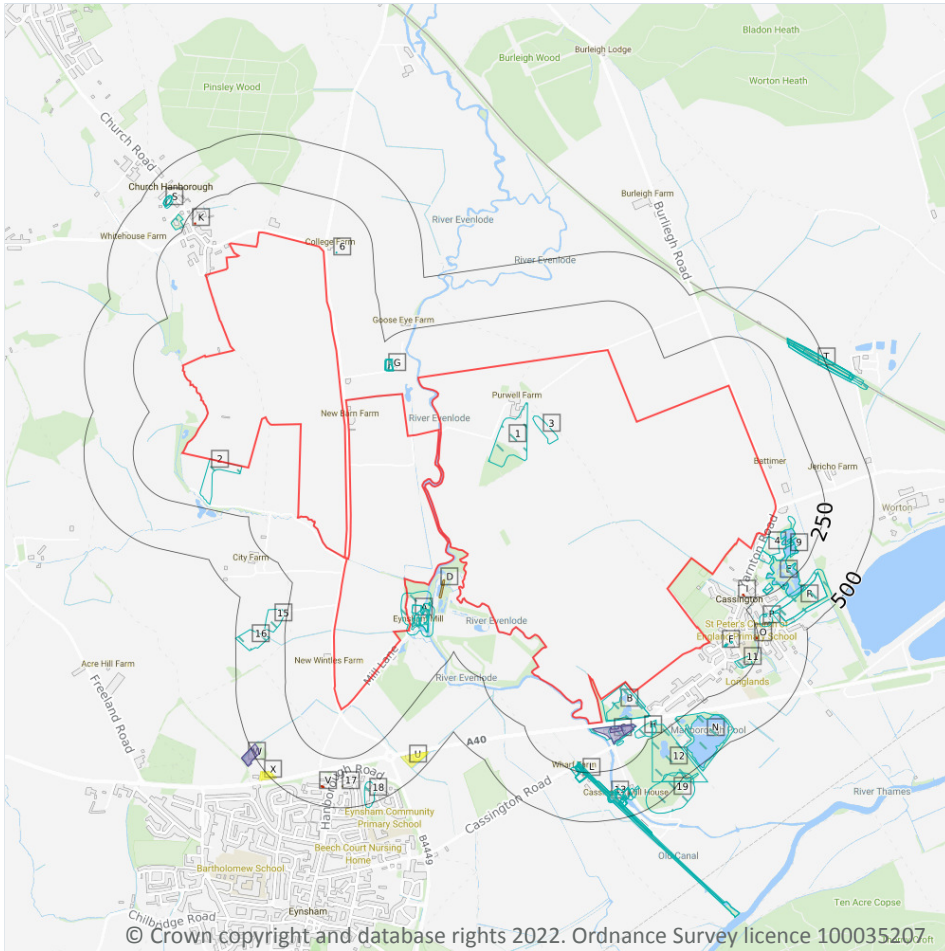
0

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



2.1 Historical industrial land uses

Records within 500m

85

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 19**

ID	Location	Land Use	Date	Group ID
1	On site	Disused Sand Pit	1950	1757320
2	On site	Unspecified Disused Pit	1978	1766741
3	On site	Unspecified Pit	1950	1778296

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Mills	1900	1798097
B	0m SW	Unspecified Disused Pit	1978	1766742
B	2m SE	Unspecified Pit	1950	1778294
A	7m E	Paper Mill	1876	1773121
A	8m E	Unspecified Disused Mills	1914	1815872
4	18m SE	Nursery	1992	1772309
A	27m E	Unspecified Disused Mills	1922	1815872
C	29m S	Garage	1978	1780270
A	32m E	Unspecified Mill	1978	1758805
A	50m E	Unspecified Mills	1900	1832307
C	53m SE	Unspecified Pit	1950	1778295
5	57m SE	Unspecified Depot	1992	1764000
6	62m E	Unspecified Kiln	1880	1769408
E	71m E	Unspecified Disused Pit	1979	1818332
E	71m E	Unspecified Disused Pit	1992	1830357
F	78m E	Smithy	1914	1840018
F	78m E	Smithy	1922	1807652
F	83m E	Smithy	1900	1826864
7	89m S	Boat House	1876	1763371
F	107m E	Smithy	1900	1779760
G	120m N	Unspecified Pit	1876	1793923
G	124m N	Unspecified Pit	1922	1834844
G	124m N	Unspecified Pit	1914	1810048
G	124m N	Unspecified Pit	1914	1810048
G	127m N	Unspecified Pit	1950	1831051
9	130m E	Unspecified Pit	1938	1778282
10	136m SE	Sand Pit	1876	1753274
11	162m SE	Grave Yard	1876	1762904



ID	Location	Land Use	Date	Group ID
H	174m SE	Unspecified Works	1978	1771575
12	177m SE	Disused Workings	1992	1761787
H	192m SE	Unspecified Disused Pit	1979	1766743
J	200m SE	Unspecified Depot	1992	1784315
L	203m S	Old Canal	1978	1793503
13	204m S	Old Canal	1900	1841061
L	210m S	Unspecified Wharf	1900	1819258
M	214m S	Old Canal	1914	1781608
M	216m S	Old Canal	1922	1828878
L	217m S	Unspecified Wharf	1900	1806482
J	219m S	Unspecified Depot	1979	1787846
L	221m S	Unspecified Wharf	1876	1806482
L	223m S	Unspecified Wharf	1914	1829106
L	223m S	Unspecified Wharf	1914	1829106
L	224m S	Unspecified Wharf	1922	1799593
L	226m S	Unspecified Wharf	1950	1847046
N	233m SE	Unspecified Pit	1968	1778290
14	249m W	Grave Yard	1880	1762903
15	258m W	Gravel Pit	1978	1758019
P	276m E	Refuse Heap	1922	1770812
N	296m SE	Unspecified Disused Pit	1979	1766746
Q	297m S	Old Canal	1988	1793503
Q	297m S	Old Canal	1956	1838461
Q	297m S	Old Canal	1970	1793503
R	304m SE	Burial Ground	1968	1759834
P	307m NE	Unspecified Ground Workings	1900	1755492
R	327m SE	Unspecified Disused Pit	1979	1816470
R	327m SE	Unspecified Disused Pit	1992	1788961



ID	Location	Land Use	Date	Group ID
16	328m W	Gravel Pit	1978	1758018
Q	347m S	Unspecified Mill	1900	1833774
Q	350m S	Corn Mill	1914	1812045
Q	357m S	Unspecified Mill	1900	1839793
S	358m NW	Old Gravel Pit	1923	1810155
Q	361m S	Corn Mill	1922	1812045
T	363m NE	Cuttings	1900	1836004
T	364m NE	Cuttings	1876	1785630
T	367m NE	Cuttings	1914	1788719
S	369m NW	Old Gravel Pit	1923	1810155
S	369m NW	Old Gravel Pit	1898	1810155
S	369m NW	Old Gravel Pit	1950	1810155
Q	370m SE	Corn Mill	1876	1818593
T	370m NE	Cuttings	1938	1782313
T	370m NE	Cuttings	1922	1782313
T	371m NE	Cuttings	1900	1802321
Q	372m SE	Unspecified Mill	1956	1758804
T	386m NE	Cuttings	1968	1836004
Q	390m S	Unspecified Mill	1988	1804004
Q	390m S	Unspecified Mill	1970	1846086
18	393m S	Old Gravel Pit	1956	1778676
T	412m NE	Cuttings	1979	1818893
T	412m NE	Cuttings	1992	1836417
19	418m SE	Unspecified Disused Pit	1971	1766745
20	418m SE	Unspecified Ground Workings	1968	1755510
W	489m SW	Garage	1978	1780268

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

3

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

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
D	52m SE	Tanks	1994	287702
D	62m SE	Tanks	1994	287701
17	390m S	Unspecified Tank	1969	285034

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

14

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

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
I	184m SE	Electricity Substation	1994	175980
I	185m SE	Electricity Substation	1972	175980
I	186m SE	Electricity Substation	1989	175980
K	200m NW	Electricity Substation	1972	182437
K	200m NW	Electricity Substation	1994	182437
O	238m E	Electricity Substation	1994	181146
O	239m E	Electricity Substation	1972	181146
O	240m E	Electricity Substation	1989	181146
V	400m S	Electricity Substation	1985	182215
V	400m S	Electricity Substation	1985	182215
V	400m S	Electricity Substation	1987	182215



ID	Location	Land Use	Date	Group ID
V	403m S	Electricity Substation	1995	184230
V	403m S	Electricity Substation	1983	184230
V	403m S	Electricity Substation	1969	184230

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

4

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'.

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
U	378m SE	Filling Station	1994	3153
U	411m SE	Filling Station	1985	3153
X	477m SW	Filling Station	1985	3208
X	479m SW	Filling Station	1994	3208

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

5

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

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
C	29m S	Garage	1994	55687
C	53m SE	Garage	1972	57296
8	97m E	Commercial Vehicle Repair Works	1972	54899
W	465m SW	Garage	1994	58397

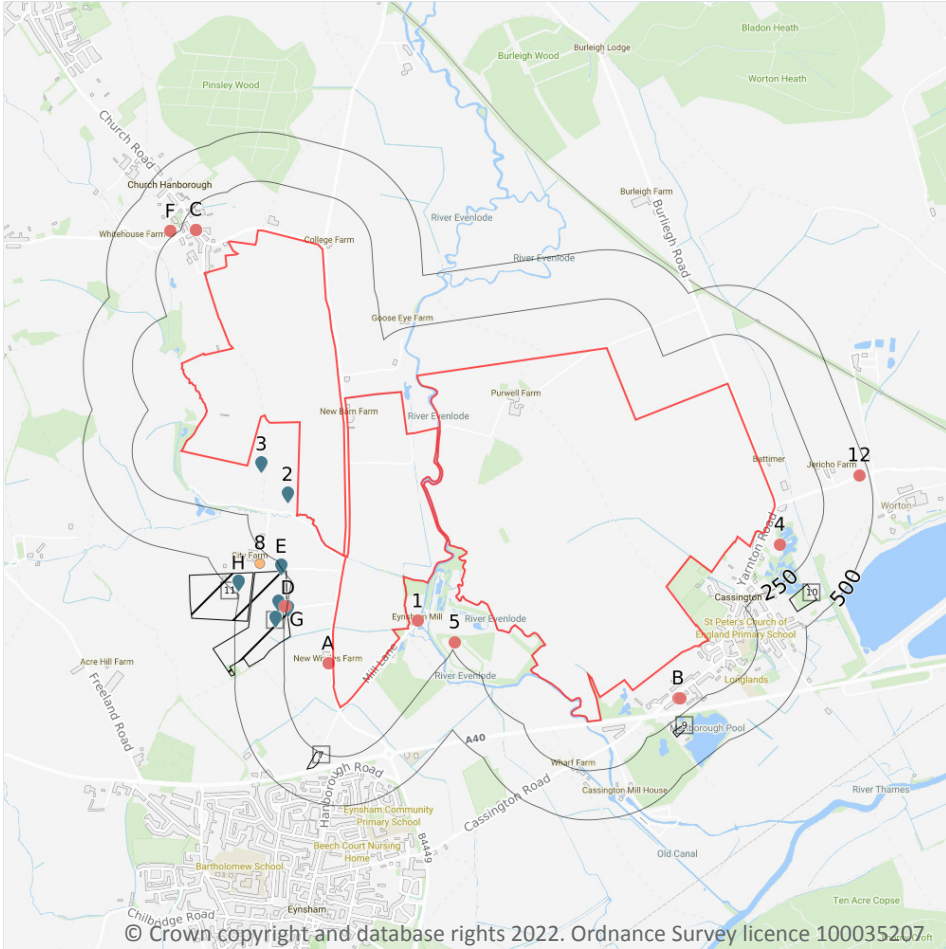


ID	Location	Land Use	Date	Group ID
W	488m SW	Garage	1972	58397

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical waste sites
- ◆ 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
5

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 26**

ID	Location	Details		
6	216m W	Site Address: New Wintles Farm, Lower Road, Eynsham, Witney, Oxfordshire Licence Holder Address: Cholswell Court, Shippon, Abingdon, Oxfordshire	Waste Licence: Yes Site Reference: - Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 30/11/1992 Licence Surrender: 26/04/2018	Operator: Mc Kenna Environmental Limited Licence Holder: Mc Kenna Environmental Limited First Recorded - Last Recorded: -
7	255m SW	Site Address: Eynsham A40, A40 Eynsham, Oxfordshire Licence Holder Address: -	Waste Licence: Yes Site Reference: TP0374, 13.6.4310, OCC/020 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 13/01/1978 Licence Surrender: 31/12/1982	Operator: - Licence Holder: Eynsham Consolidated Charities First Recorded - Last Recorded: 31/12/1982
9	292m SE	Site Address: Wayside, Cassington, Witney, Oxfordshire Licence Holder Address: -	Waste Licence: Yes Site Reference: TP0573, OCC/078, W10232, 13.7.232 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 02/06/1987 Licence Surrender: 31/12/1991	Operator: Smiths (Bletchingdon) Licence Holder: Smith and Sons First Recorded - Last Recorded: -

ID	Location	Details		
10	335m SE	Site Address: Bell Lane, Cassington, Witney, Oxfordshire Licence Holder Address: -	Waste Licence: Yes Site Reference: W10016, OCC/028, TP0088, 13.7.016 Waste Type: Inert, Household, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 01/06/1978 Licence Surrender: -	Operator: J Curtis and Sons Licence Holder: J Curtis and Sons First Recorded 01/01/1969 Last Recorded: 31/12/1978
11	364m SW	Site Address: City Farm, Lower Road, Eynsham, Oxfordshire Licence Holder Address: 17, Cranberry Road, Witney, Oxfordshire	Waste Licence: Yes Site Reference: - Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 10/09/1996 Licence Surrender: 26/04/2018	Operator: Mckenna Environmental Limited Licence Holder: Mckenna Environmental Limited First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m

1

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

Features are displayed on the Waste and landfill map on **page 26**

ID	Location	Address	Further Details	Date
8	282m SW	Site Address: New Wintles Farm, Eynsham, Witney, Oxfordshire, OX29 4EG	Type of Site: Recycling Facility Planning application reference: MW.0162/15 Description: Scheme comprises construction of recycling facility. Data source: Historic Planning Application Data Type: Point	-

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

3.6 Licensed waste sites

Records within 500m

15

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

Features are displayed on the Waste and landfill map on **page 26**



ID	Location	Details		
2	52m W	Site Name: City Farm Site Address: City Farm, Lower Road, Eynsham, Oxfordshire, OX29 4EG Correspondence Address: -	Type of Site: Use of waste for reclamation etc 100,000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCK005 EPR reference: EA/EPR/BB3738RM/A001 Operator: Mc Kenna Plant Hire (Oxford) Ltd Waste Management licence No: 103305 Annual Tonnage: 99999	Issue Date: 14/10/2011 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
3	66m E	Site Name: City Farm Site Address: City Farm, Lower Road, Eynsham, Oxfordshire, OX29 4EG Correspondence Address: -	Type of Site: Use of waste for reclamation etc 100,000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCK005 EPR reference: EA/EPR/BB3738RM/S004 Operator: Mc Kenna Environmental Limited Waste Management licence No: 103305 Annual Tonnage: 0	Issue Date: 14/10/2011 Effective Date: - Modified: 05/08/2014 Surrendered Date: May 26 2015 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
D	245m W	Site Name: New Wintles Farm Site Address: Mr Brian Gray, New Wintles Farm, Lower Road, Eynsham, Witney, Oxfordshire, OX29 4EG Correspondence Address: -	Type of Site: Landfill taking other wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCK001 EPR reference: EA/EPR/VP3699EY/V004 Operator: Mckenna Environmental Limited Waste Management licence No: 86149 Annual Tonnage: 74999	Issue Date: 30/11/1992 Effective Date: - Modified: 05/08/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

ID	Location	Details		
D	245m W	Site Name: New Wintles Farm Site Address: Mr Brian Gray, New Wintles Farm, Lower Road, Eynsham, Witney, Oxfordshire, OX29 4EG Correspondence Address: -	Type of Site: Landfill taking other wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCK001 EPR reference: EA/EPR/VP3699EY/S006 Operator: Mc Kenna Environmental Limited Waste Management licence No: 86149 Annual Tonnage: 0	Issue Date: 30/11/1992 Effective Date: - Modified: 05/08/2014 Surrendered Date: Apr 26 2018 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
E	248m SW	Site Name: New Wintles Farm Site Address: Mr Brian Gray, New Wintles Farm, Hanborough Road, Eynsham, Witney, Oxon, OX29 4EG Correspondence Address: McKenna Plant Hire (Oxford) Ltd, London Road, Wheatley, Oxon, OX33 1LH	Type of Site: Landfill taking other wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCK001 EPR reference: - Operator: Mc Kenna Plant Hire (Oxford) Ltd Waste Management licence No: 86149 Annual Tonnage: 74999	Issue Date: 30/11/1992 Effective Date: - Modified: 10/09/1996 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
E	248m SW	Site Name: New Wintles Farm Site Address: Mr Brian Gray, New Wintles Farm, Hanborough Road, Eynsham, Witney, Oxfordshire, OX29 4EG Correspondence Address: -	Type of Site: Landfill taking other wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCK001 EPR reference: EA/EPR/VP3699EY/V002 Operator: Mc Kenna Plant Hire (Oxford) Ltd Waste Management licence No: 86149 Annual Tonnage: 74999	Issue Date: 30/11/1992 Effective Date: - Modified: 10/09/1996 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure

ID	Location	Details		
G	299m W	Site Name: Aggregate Recycling Facility Site Address: New Wintles Farm, Lower Road, Eynsham, Oxfordshire, OX29 4EG Correspondence Address: -	Type of Site: Inert & Excavation WTS with treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DAV199 EPR reference: EA/EPR/DB3701XR/T001 Operator: David Einig Contracting Limited Waste Management licence No: 103965 Annual Tonnage: 250000	Issue Date: 01/05/2012 Effective Date: 10/12/2015 Modified: 05/08/2014 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Transferred
G	299m W	Site Name: Aggregate Recycling Facility Site Address: New Wintles Farm, Lower Road, Eynsham, Oxfordshire, OX29 4EG Correspondence Address: -	Type of Site: Inert & Excavation WTS with treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCK007 EPR reference: EA/EPR/FB3533AB/V002 Operator: Mc Kenna Environmental Limited Waste Management licence No: 103965 Annual Tonnage: 250000	Issue Date: 01/05/2012 Effective Date: - Modified: 05/08/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
G	299m W	Site Name: New Wintles Aggregate Recycling Facility Site Address: New Wintles Farm, Eynsham, Oxfordshire, OX29 4EG Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DAV199 EPR reference: EA/EPR/DB3701XR/V002 Operator: David Einig Contracting Limited Waste Management licence No: 103965 Annual Tonnage: 250000	Issue Date: 01/05/2012 Effective Date: 10/12/2015 Modified: 02/05/2017 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
G	299m W	Site Name: Aggregates Recycling Facility Site Address: New Wintles Farm, Eynsham, Oxfordshire, OX29 4EG Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: OMH001 EPR reference: EA/EPR/JB3108TQ/T001 Operator: O Malley Haulage Limited Waste Management licence No: 103965 Annual Tonnage: 250000	Issue Date: 01/05/2012 Effective Date: 26/03/2020 Modified: 02/05/2017 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
D	300m W	Site Name: New Wintles Farm Site Address: Mr Brian Gray, McKenna Plant Hire (Oxford) Ltd, New Wintles Farm, Eynsham, Witney, Oxon, OX29 4EG Correspondence Address: McKenna Plant Hire (Oxford) Ltd, London Road, Wheatley, Oxon, OX33 1LH	Type of Site: Landfill taking other wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCK001 EPR reference: - Operator: McKenna Plant Hire (Oxford) Ltd Waste Management licence No: 86149 Annual Tonnage: 74999	Issue Date: 30/11/1992 Effective Date: - Modified: 10/09/1996 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
H	456m SW	Site Name: City Farm Site Address: Mr Brian Gray, McKenna Plant Hire (Oxford) Ltd, City Farm, Eynsham, Witney, Oxon, OX29 4EG Correspondence Address: McKenna Plant Hire (Oxford) Ltd, London Road, Wheatley, Oxfordshire, OX33 1LH	Type of Site: Landfill taking other wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCK002 EPR reference: - Operator: McKenna Plant Hire (Oxford) Ltd Waste Management licence No: 86161 Annual Tonnage: 250000	Issue Date: 10/09/1996 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure

ID	Location	Details		
H	456m SW	Site Name: City Farm Site Address: Mr Brian Gray, McKenna Plant Hire (Oxford) Ltd, City Farm, Eynsham, Witney, Oxfordshire, OX29 4EG Correspondence Address: -	Type of Site: Landfill taking other wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCK002 EPR reference: EA/EPR/WP3199EC/A001 Operator: McKenna Plant Hire (Oxford) Ltd Waste Management licence No: 86161 Annual Tonnage: 250000	Issue Date: 10/09/1996 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure
H	456m SW	Site Name: City Farm Site Address: Mr Brian Gray, City Farm, Lower Road, Eynsham, Oxfordshire, OX29 4EG Correspondence Address: -	Type of Site: Landfill taking other wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCK002 EPR reference: EA/EPR/WP3199EC/S005 Operator: Mckenna Environmental Limited Waste Management licence No: 86161 Annual Tonnage: 0	Issue Date: 10/09/1996 Effective Date: - Modified: 05/08/2014 Surrendered Date: Apr 26 2018 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
H	456m SW	Site Name: City Farm Site Address: Mr Brian Gray, City Farm, Lower Road, Eynsham, Oxfordshire, OX29 4EG Correspondence Address: -	Type of Site: Landfill taking other wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCK002 EPR reference: EA/EPR/WP3199EC/S005 Operator: Mc Kenna Environmental Limited Waste Management licence No: 86161 Annual Tonnage: 0	Issue Date: 10/09/1996 Effective Date: - Modified: 05/08/2014 Surrendered Date: Apr 26 2018 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered

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



3.7 Waste exemptions

Records within 500m
34

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

Features are displayed on the Waste and landfill map on **page 26**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	28m W	NEW WINTLES FARM, EYNHAM, WITNEY, OX29 4EG	WEX217709	Using waste exemption	On a Farm	Use of waste in construction
A	28m W	NEW WINTLES FARM, EYNHAM, WITNEY, OX29 4EG	WEX217709	Using waste exemption	On a Farm	Use of waste for a specified purpose
A	28m W	NEW WINTLES FARM, EYNHAM, WITNEY, OX29 4EG	WEX217709	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	28m W	NEW WINTLES FARM, EYNHAM, WITNEY, OX29 4EG	WEX217709	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
A	28m W	NEW WINTLES FARM, EYNHAM, WITNEY, OX29 4EG	WEX217709	Disposing of waste exemption	On a Farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	28m W	NEW WINTLES FARM, EYNHAM, WITNEY, OX29 4EG	WEX217709	Disposing of waste exemption	On a Farm	Burning waste in the open
A	28m W	NEW WINTLES FARM, EYNHAM, WITNEY, OX29 4EG	WEX064812	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	28m W	NEW WINTLES FARM, EYNHAM, WITNEY, OX29 4EG	WEX064812	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	28m W	NEW WINTLES FARM, EYNHAM, WITNEY, OX29 4EG	WEX064812	Disposing of waste exemption	On a farm	Burning waste in the open
A	28m W	NEW WINTLES FARM, EYNHAM, WITNEY, OX29 4EG	WEX064812	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	28m W	NEW WINTLES FARM, EYNHAM, WITNEY, OX29 4EG	WEX064812	Using waste exemption	On a farm	Use of waste in construction



ID	Location	Site	Reference	Category	Sub-Category	Description
A	28m W	NEW WINTLES FARM, EYNHAM, WITNEY, OX29 4EG	WEX064812	Using waste exemption	On a farm	Use of waste for a specified purpose
A	28m W	New Wintles Farm Hanborough Road WITNEY OX29 4EG	EPR/PE5480TF /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
A	28m W	New Wintles Farm Hanborough Road WITNEY OX29 4EG	EPR/PE5480TF /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	28m W	New Wintles Farm Hanborough Road WITNEY OX29 4EG	EPR/PE5480TF /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
A	28m W	New Wintles Farm Hanborough Road WITNEY OX29 4EG	EPR/PE5480TF /A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	28m W	New Wintles Farm Hanborough Road WITNEY OX29 4EG	EPR/PE5480TF /A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
1	41m E	EYNHAM MILL, EYNHAM, WITNEY, OX29 4EJ	WEX073262	Disposing of waste exemption	Not on a farm	Burning waste in the open
4	99m SE	YARNTON ROAD, CASSINGTON, WITNEY, OX29 4DY	WEX202009	Using waste exemption	Not on a farm	Use of waste in construction
B	174m SE	-	WEX263149	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
B	174m SE	59, EYNHAM ROAD, CASSINGTON, WITNEY, OX29 4DJ	WEX123485	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
C	177m W	NAP Field, Church Hanborough, Oxford, OX29 8AB	WEX181709	Using waste exemption	On a farm	Use of waste for a specified purpose
C	177m W	NAP Field, Church Hanborough, Oxford, OX29 8AB	WEX181709	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	177m W	NAP Field, Church Hanborough, Oxford, OX29 8AB	WEX181709	Disposing of waste exemption	On a farm	Burning waste in the open

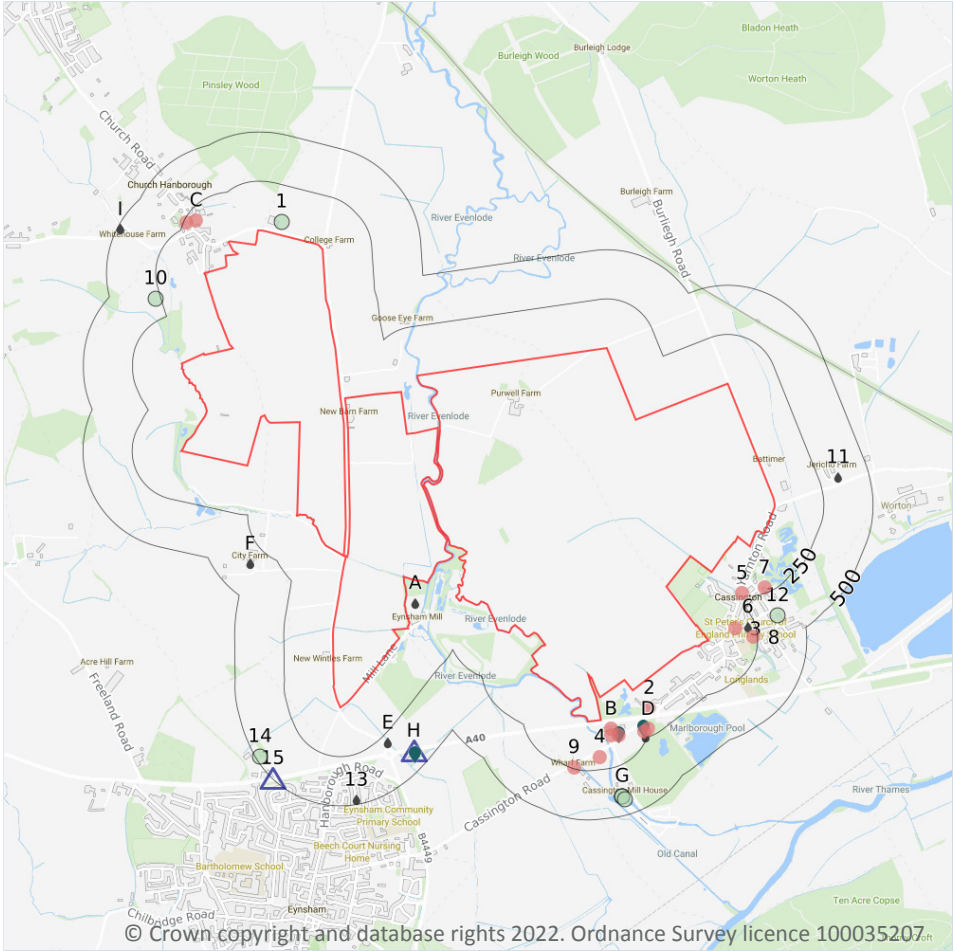


ID	Location	Site	Reference	Category	Sub-Category	Description
C	177m W	NPA Field, Church Hanborough, Oxfordshire, OX29 8AB	WEX018347	Disposing of waste exemption	On a farm	Burning waste in the open
C	177m W	NPA Field, Church Hanborough, Oxfordshire, OX29 8AB	WEX018347	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
C	177m W	NPA Field, Church Hanborough, Oxfordshire, OX29 8AB	WEX018347	Using waste exemption	On a farm	Use of waste for a specified purpose
B	181m SE	59 Eynsham Road WITNEY Oxfordshire OX29 4DJ	EPR/PF0600XK /A001	Using waste exemption	Non-Agricultural Waste Only	Burning of waste as a fuel in a small appliance
5	213m S	-	WEX293023	Disposing of waste exemption	Not on a farm	Burning waste in the open
D	264m W	New Wintles Farm Hanborough Road WITNEY OX29 4EG	EPR/AF0601M K/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
F	274m NW	npa - Field Church Hanborough Oxfordshire OX29 8AB	EPR/ME5755JF /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
F	274m NW	npa - Field Church Hanborough Oxfordshire OX29 8AB	EPR/ME5755JF /A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of silver
F	274m NW	npa - Field Church Hanborough Oxfordshire OX29 8AB	EPR/ME5755JF /A001	Using waste exemption	Non-Agricultural Waste Only	Use of effluent to clean a highway gravel bed
12	451m E	Cassington Nurseries Yarnton Road Witney Oxfordshire OX29 4DY	EPR/EF0407V U/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- ▲ Current or recent petrol stations
- ◆ Licensed pollutant release (Part A(2)/B)
- ◆ Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m **14**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 37**

ID	Location	Company	Address	Activity	Category
B	68m SE	Rygor Commercial	Eynsham Road, Cassington, Witney, Oxfordshire, OX29 4DD	Vehicle Repair, Testing and Servicing	Repair and Servicing
B	94m SE	Mast (Telecommunication)	Oxfordshire, OX29	Telecommunications Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
B	116m SE	Bartco Ltd	Partridge Yard, Eynsham Road, Cassington, Witney, Oxfordshire, OX29 4EU	Industrial Coatings and Finishings	Industrial Products
2	122m SE	Thames Liquid Waste Disposal	The Willows, Eynsham Road, Cassington, Witney, Oxfordshire, OX29 4DF	Waste Storage, Processing and Disposal	Infrastructure and Facilities
3	150m NE	Cassington Furnishings	Old School House, The Green, Cassington, Witney, Oxfordshire, OX29 4DN	Carpets, Flooring, Rugs and Soft Furnishings	Consumer Products
4	185m S	Mast (Telecommunication)	Oxfordshire, OX29	Telecommunications Features	Infrastructure and Facilities
5	188m SE	Electricity Sub Station	Oxfordshire, OX29	Electrical Features	Infrastructure and Facilities
C	198m NW	Electricity Sub Station	Oxfordshire, OX29	Electrical Features	Infrastructure and Facilities
D	212m S	Hoppers	Oxfordshire, OX29	Hoppers and Silos	Farming
D	216m S	Hopper	Oxfordshire, OX29	Hoppers and Silos	Farming
7	222m S	Tony Eldridge Scaffolding	Bell Lane, Cassington, Witney, Oxfordshire, OX29 4DS	Construction and Tool Hire	Hire Services
8	230m E	Electricity Sub Station	Oxfordshire, OX29	Electrical Features	Infrastructure and Facilities
C	235m NW	Church Hanbrewery	Tithe Barn, Church Hanborough, Witney, Oxfordshire, OX29 8AB	Alcoholic Drinks	Foodstuffs
9	243m S	V W Vanshack	Wharf Farm Buildings, Eynsham Road, Cassington, Witney, Oxfordshire, OX29 4DB	Vehicle Repair, Testing and Servicing	Repair and Servicing

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

2

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 37**

ID	Location	Company	Address	LPG	Status
H	415m SE	BP	A40, Eynsham, Witney, Oxfordshire, OX29 4EN	No	Open



ID	Location	Company	Address	LPG	Status
15	498m SW	ESSO	A40, Eynsham, Witney, Oxfordshire, OX29 4EN	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.



4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

3

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

Features are displayed on the Current industrial land use map on **page 37**

ID	Location	Address	Details	
B	117m SE	Bartco Ltd, Partridge Yard, Cassington, Witney, OX29 4EU	Process: Respraying of Road Vehicles Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
D	201m S	Smiths Concrete, Premix Depot, Eynsham Road, Cassington, Witney, OX29 4DE	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

ID	Location	Address	Details	
H	431m SE	Eynsham Filling Station (Total), Old Witney Road, Eynsham, OX29 4EN	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0
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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	15
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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 37**

ID	Location	Address	Details	
A	51m E	ISIS FISH FARM, EYNHAM MILL, EYNHAM, OXON, OX8 1EJ	Effluent Type: AGRICULTURE - FISH FARMING - NOT WATER COMPANY Permit Number: CTCR.1618 Permit Version: 1 Receiving Water: BACK CHANNEL OF EVENLODE	Status: REVOKED - UNSPECIFIED Issue date: 05/09/1979 Effective Date: 05/09/1979 Revocation Date: 01/04/1993
A	51m E	EYNHAM MILL FARM, EYNHAM, OXON, OXON, OX8 1EJ	Effluent Type: AGRICULTURE - FISH FARMING - NOT WATER COMPANY Permit Number: CTCR.1526 Permit Version: 1 Receiving Water: BACK CHANNEL OF EVENLODE	Status: REVOKED - UNSPECIFIED Issue date: 04/05/1977 Effective Date: 04/05/1977 Revocation Date: 15/05/1991
6	211m E	REAR OF THE GREEN, CASSINGTON, OXFORD, OX8 1DW	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTWC.0899 Permit Version: 1 Receiving Water: GRAVEL OVERLYING OXFORD CLAY	Status: REVOKED - UNSPECIFIED Issue date: 23/05/1986 Effective Date: 23/05/1986 Revocation Date: 07/10/1996

ID	Location	Address	Details	
D	241m E	SMITHS CONCRETE LTD, EYNHAM ROAD, SMITHS CONCRETE LTD EYNHAM ROA, D CASSINGTON OXFORDSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - UNSPECIFIED Permit Number: CNTM.1001 Permit Version: 1 Receiving Water: ALLUVIUM	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 30/07/1993 Effective Date: 30/07/1993 Revocation Date: 24/04/2007
D	241m E	SMITHS CONCRETE LTD, EYNHAM ROAD, SMITHS CONCRETE LTD EYNHAM ROA, D CASSINGTON OXFORDSHIRE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: CNTM.1001 Permit Version: 2 Receiving Water: ALLUVIUM	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 24/04/2007 Effective Date: 24/04/2007 Revocation Date: 20/12/2012
D	241m E	SMITHS CONCRETE LTD, EYNHAM ROAD, SMITHS CONCRETE LTD EYNHAM ROA, D CASSINGTON OXFORDSHIRE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: CNTM.1001 Permit Version: 3 Receiving Water: ALLUVIUM	Status: VARIED UNDER EPR 2010 Issue date: 21/12/2012 Effective Date: 21/12/2012 Revocation Date: -
E	290m SE	HERON SELF SERVICE FILLING STATION, HERON SELF SERVICE FILLING STATI, ON A40 EYNHAM OXON	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCU.1403 Permit Version: 1 Receiving Water: OXFORD CLAYSTRATA	Status: TRANSFERRED FROM WRA 1963 Issue date: 16/06/1983 Effective Date: 16/06/1983 Revocation Date: -
E	290m SE	LITTLE CHEF RESTAURANT, EYNHAM, OX, LITTLE CHEF RESTAURANT EYNHAM, OXON	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.0683 Permit Version: 1 Receiving Water: EYNHAM MEADDITCH	Status: REVOKED - UNSPECIFIED Issue date: 21/02/1986 Effective Date: 21/02/1986 Revocation Date: 21/07/1993
E	290m SE	LITTLE CHEF RESTAURANT, EYNHAM, OX, LITTLE CHEF RESTAURANT EYNHAM, OXON	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTWC.0682 Permit Version: 1 Receiving Water: EYNHAM MEADBROOK	Status: REVOKED - UNSPECIFIED Issue date: 21/02/1986 Effective Date: 21/02/1986 Revocation Date: 10/07/1987
F	341m SW	FIVE RESIDENTIAL UNITS, CITY FARM, FIVE RESIDENTIAL UNITS CITY FAR, M EYNHAM OXFORDSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CATM.2956 Permit Version: 1 Receiving Water: TERRACE DEPOSITS	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 16/07/1997 Effective Date: 16/07/1997 Revocation Date: 20/12/2012



ID	Location	Address	Details	
F	341m SW	FIVE RESIDENTIAL UNITS, CITY FARM, FIVE RESIDENTIAL UNITS CITY FAR, M EYNSHAM OXFORDSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CATM.2956 Permit Version: 2 Receiving Water: TERRACE DEPOSITS	Status: VARIED UNDER EPR 2010 Issue date: 21/12/2012 Effective Date: 21/12/2012 Revocation Date: -
11	345m E	JERICHO FARM, CASSINGTON, OXFORDSHI, JERICHO FARM CASSINGTON OXFORD, SHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CNTW.0765 Permit Version: 1 Receiving Water: DITCH TRIB OF BATTENER BROOK	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 10/10/1990 Effective Date: 10/10/1990 Revocation Date: 01/10/1996
13	476m S	Eynsham Wytham View	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.0936 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 07/02/1997
I	484m NW	CHURCH HANBOROUGH STW, CHURCH HANBO, CHURCH HANBOROUGH STW CHURCH HA, NBOROUGH OXON	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CSSC.5783 Permit Version: 1 Receiving Water: HANBOROUGH STREAM	Status: TRANSFERRED FROM COPA 1974 Issue date: 10/11/1985 Effective Date: 10/11/1985 Revocation Date: 31/03/2005
I	484m NW	Church Hanborough	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TEMP.2486 Permit Version: 1 Receiving Water: HANBOROUGH STREAM	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 11/04/2005

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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



4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m

0

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

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

4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

8

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 37**

ID	Location	Details	
1	67m N	Incident Date: 18/02/2003 Incident Identification: 137606 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
10	275m W	Incident Date: 05/11/2003 Incident Identification: 200097 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Vegetable Cuttings and Deposits	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
12	373m E	Incident Date: 27/03/2003 Incident Identification: 146555 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	400m S	Incident Date: 03/03/2003 Incident Identification: 140582 Pollutant: Other Pollutant Pollutant Description: Microbiological	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
G	400m S	Incident Date: 03/03/2003 Incident Identification: 140582 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
G	400m S	Incident Date: 03/03/2003 Incident Identification: 140582 Pollutant: Contaminated Water:Other Pollutant Pollutant Description: Suspended Solids:Microbiological	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
G	421m S	Incident Date: 22/04/2002 Incident Identification: 73577 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
14	477m SW	Incident Date: 28/08/2002 Incident Identification: 103502 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m

0

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

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



4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m

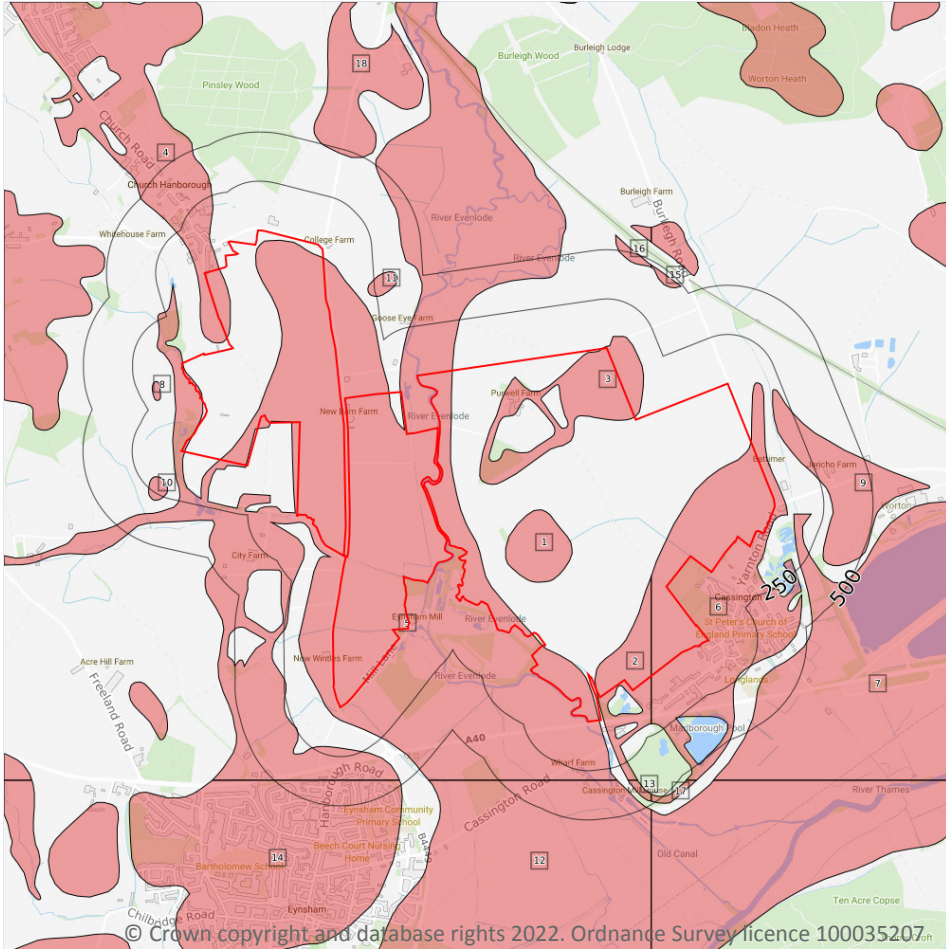
0

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

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



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

18

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 47**

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	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

ID	Location	Designation	Description
3	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
4	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
5	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
6	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
7	104m 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
8	137m SW	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
9	145m 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
10	171m SW	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
11	216m 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
12	298m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
13	336m SE	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
14	370m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
15	434m NE	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

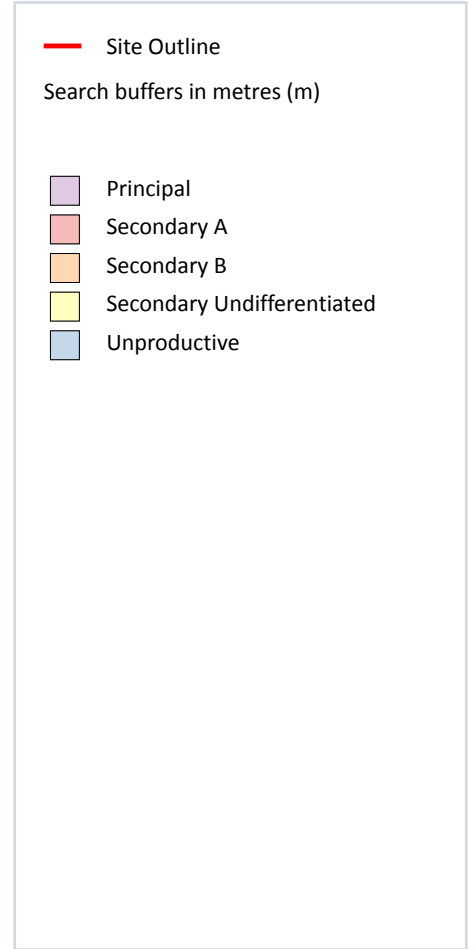
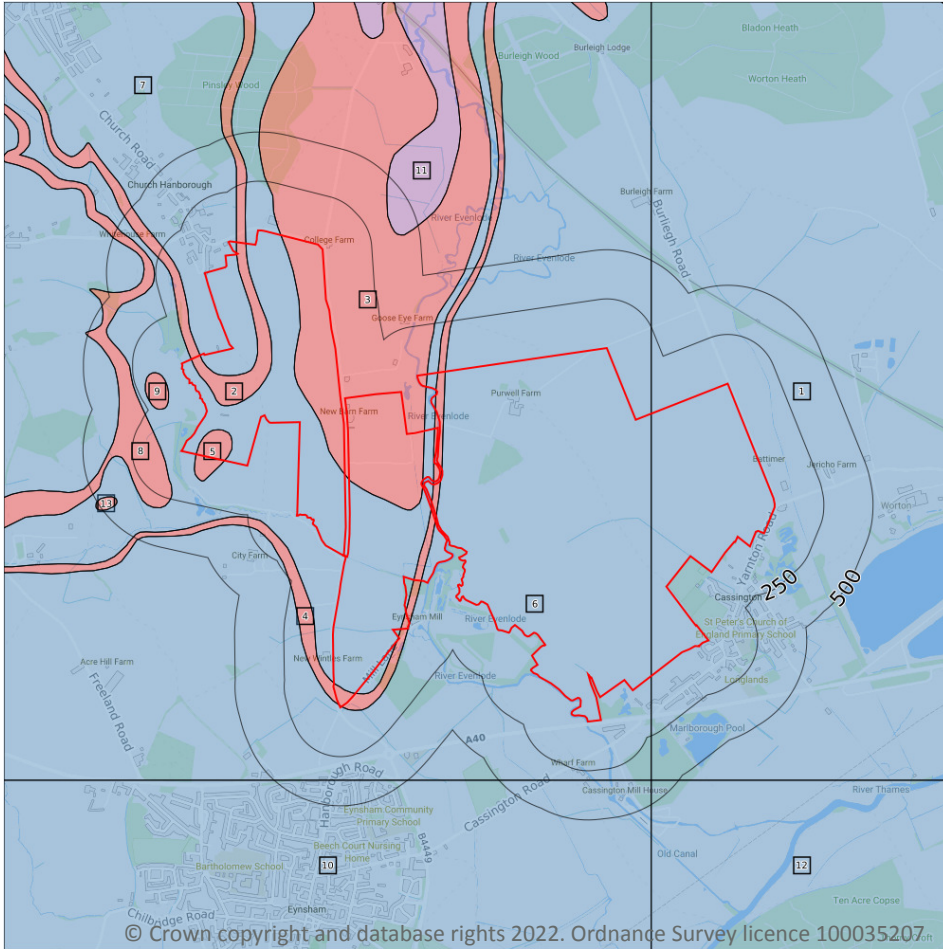


ID	Location	Designation	Description
16	453m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
17	456m SE	Secondary 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
18	474m 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

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



Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

13

Aquifer status of groundwater held within bedrock geology.

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

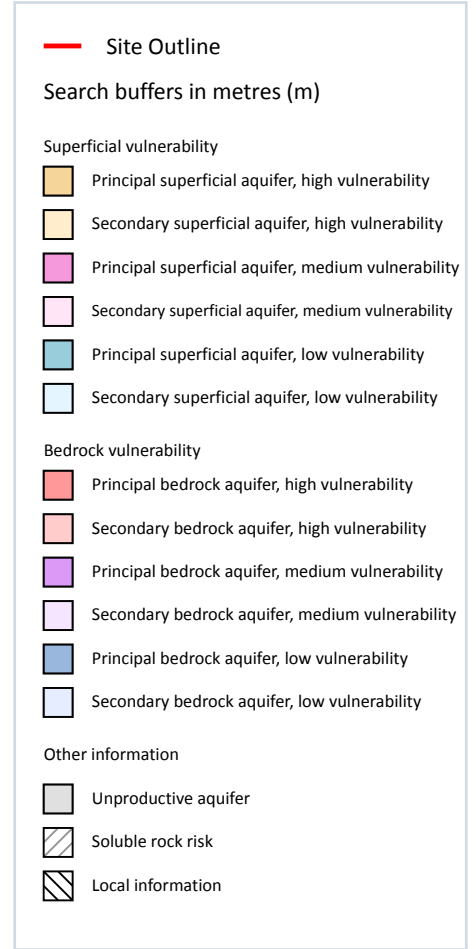
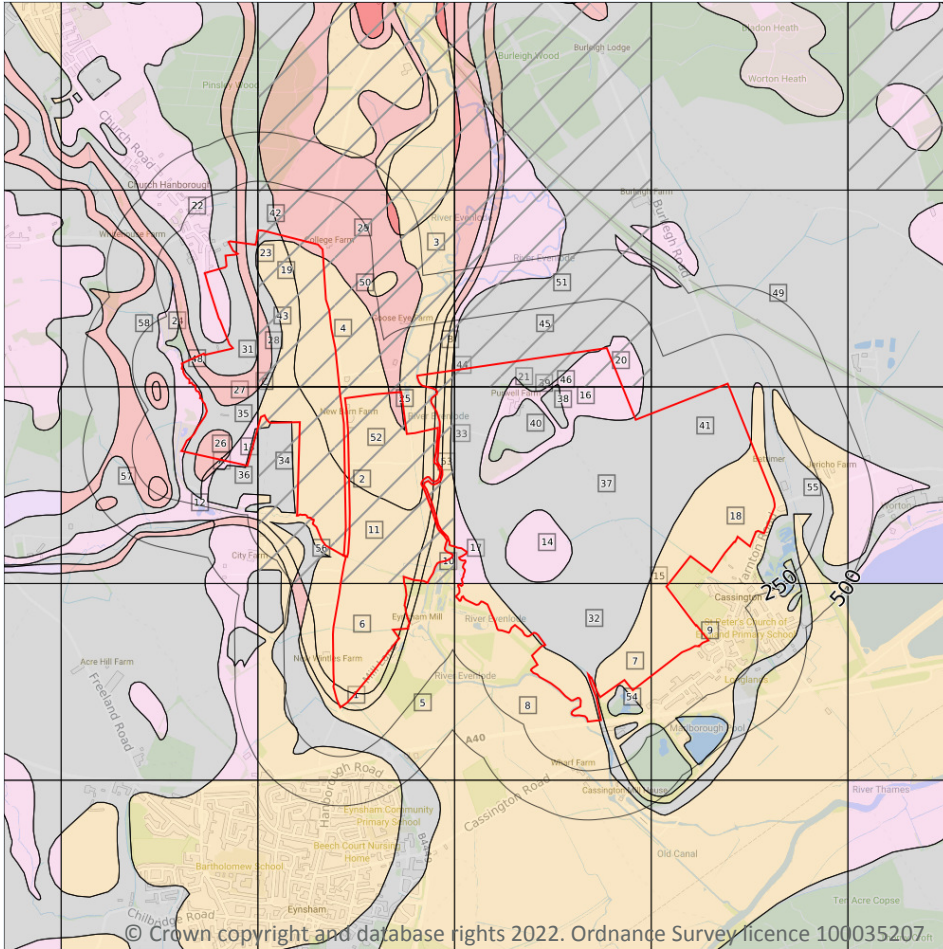
ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	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
4	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
5	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
6	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
7	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
8	95m 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
9	102m SW	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
10	298m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
11	368m E	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
12	399m SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
13	411m SW	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

61

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: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
3	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: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
4	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: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
7	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
8	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
9	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
10	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
11	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
12	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
13	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
14	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
15	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
16	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
17	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
18	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
19	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
20	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
21	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
22	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
23	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
24	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
25	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
26	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
27	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
28	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
29	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
30	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
31	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
32	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
33	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
34	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
35	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
36	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
37	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
38	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
39	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
40	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
41	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
42	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
43	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
44	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
45	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
46	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
47	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
48	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
49	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
52	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: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
53	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: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
A	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
B	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: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
B	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
B	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Medium	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
C	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: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
C	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
54	7m SE	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
55	22m E	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
56	29m SW	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
57	40m W	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
58	45m W	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive 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

3

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
2	Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.	27.0%
50	Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.	32.0%
51	Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.	3.0%

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

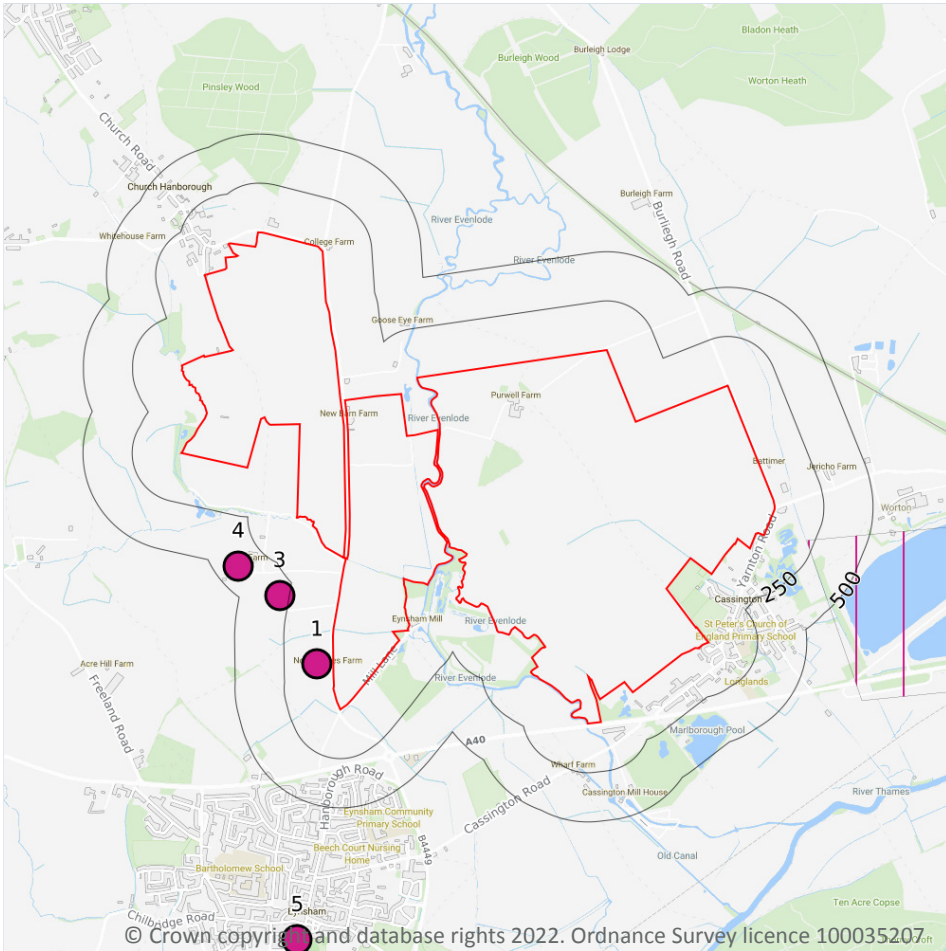
5.5 Groundwater vulnerability- local information

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



5.6 Groundwater abstractions

Records within 2000m

6

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 65**

ID	Location	Details	
1	83m W	Status: Historical Licence No: 28/39/12/0059 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: NEW WINTLES FARM, EYNSHAM Data Type: Point Name: SOLLOWAY Easting: 443300 Northing: 210600	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: 01/01/1992 Version End Date: -
2	210m E	Status: Active Licence No: TH/039/0013/011 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: THAMES GROUNDWATER Point: THAMES FIRST AND SECOND TERRACE DEPOSITS, CASSINGTON QUARRY Data Type: Poly4 Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 445790 Northing: 211229	Annual Volume (m ³): 1,504,895 Max Daily Volume (m ³): 4,882 Original Application No: NPS/NA/001301 Original Start Date: 14/05/2021 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 14/05/2021 Version End Date: -
3	299m W	Status: Historical Licence No: 28/39/12/0212 Details: Dust suppression Direct Source: THAMES GROUNDWATER Point: NEW WINTLES FARM, EYNSHAM Data Type: Point Name: McKENNA PLANT HIRE Easting: 443110 Northing: 210950	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/11/1996 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 21/11/1996 Version End Date: -
4	386m SW	Status: Historical Licence No: 28/39/12/0179 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: CITY FARM, EYNSHAM, OXON Data Type: Point Name: WATTS Easting: 442900 Northing: 211100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/07/1976 Expiry Date: - Issue No: 100 Version Start Date: 28/07/1976 Version End Date: -
5	1190m S	Status: Historical Licence No: 28/39/11/0005 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: ABBEY FARM, EYNSHAM, OXFORDSHIRE POINT A Data Type: Point Name: COOK Easting: 443200 Northing: 209200	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: 16/12/1998 Version End Date: -



ID	Location	Details	
-	1722m E	Status: Active Licence No: TH/039/0013/008 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: REACH Data Type: Line Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 447650 Northing: 211050	Annual Volume (m ³): 871,200 Max Daily Volume (m ³): 2,904 Original Application No: NPS/WR/030169 Original Start Date: 30/08/2019 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 30/08/2019 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

6

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 65**

ID	Location	Details	
-	1444m SE	Status: Historical Licence No: 28/39/16/0009 Details: Spray Irrigation - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: UNIVERSITY FIELD STATION, WYTHAM, OXFORD (A & B) Data Type: Line Name: OXFORD UNIVERSITY Easting: 446600 Northing: 210100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/04/1966 Version End Date: -
-	1444m SE	Status: Active Licence No: 28/39/16/0009 Details: Spray Irrigation - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: UNIVERSITY FIELD STATION, WYTHAM, OXFORD (A & B) - R.THAMES Data Type: Line Name: OXFORD UNIVERSITY Easting: 446600 Northing: 210100	Annual Volume (m ³): 43,187 Max Daily Volume (m ³): 600.07 Original Application No: WRA./1030 Original Start Date: 04/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/04/1966 Version End Date: -



ID	Location	Details	
-	1837m S	Status: Historical Licence No: 28/39/16/0053 Details: Potable Water Supply - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: SWINFORD INTAKE POINT 'A' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 444300 Northing: 208500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/07/1967 Expiry Date: - Issue No: 100 Version Start Date: 10/07/1967 Version End Date: -
-	1837m S	Status: Active Licence No: 28/39/16/0078 Details: Potable Water Supply - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: SWINFORD INTAKE - RIVER THAMES Data Type: Point Name: Thames Water Utilities Ltd Easting: 444300 Northing: 208500	Annual Volume (m ³): 55,312,169 Max Daily Volume (m ³): 300,042 Original Application No: WRL/39/16/60 Original Start Date: 18/09/2002 Expiry Date: - Issue No: 1 Version Start Date: 18/09/2002 Version End Date: -
-	1909m E	Status: Historical Licence No: 28/39/16/0009 Details: Spray Irrigation - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: UNIVERSITY FIELD STATION, WYTHAM (C & D) Data Type: Line Name: OXFORD UNIVERSITY Easting: 447100 Northing: 210100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/04/1966 Version End Date: -
-	1909m E	Status: Active Licence No: 28/39/16/0009 Details: Spray Irrigation - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: UNIVERSITY FIELD STATION, WYTHAM (C & D) - SEACOURT STREAM Data Type: Line Name: OXFORD UNIVERSITY Easting: 447100 Northing: 210100	Annual Volume (m ³): 43,187 Max Daily Volume (m ³): 600.07 Original Application No: WRA./1030 Original Start Date: 04/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/04/1966 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

2

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 65**

ID	Location	Details	
-	1837m S	Status: Historical Licence No: 28/39/16/0053 Details: Potable Water Supply - Direct Direct Source: THAMES SURFACE WATER - NON TIDAL Point: SWINFORD INTAKE POINT 'A' Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 444300 Northing: 208500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/07/1967 Expiry Date: - Issue No: 100 Version Start Date: 10/07/1967 Version End Date: -
-	1837m S	Status: Active Licence No: 28/39/16/0078 Details: Potable Water Supply - Storage Direct Source: THAMES SURFACE WATER - NON TIDAL Point: SWINFORD INTAKE - RIVER THAMES Data Type: Point Name: Thames Water Utilities Ltd Easting: 444300 Northing: 208500	Annual Volume (m ³): 55,312,169 Max Daily Volume (m ³): 300,042 Original Application No: WRL/39/16/60 Original Start Date: 18/09/2002 Expiry Date: - Issue No: 1 Version Start Date: 18/09/2002 Version End Date: -

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

5.9 Source Protection Zones

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

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

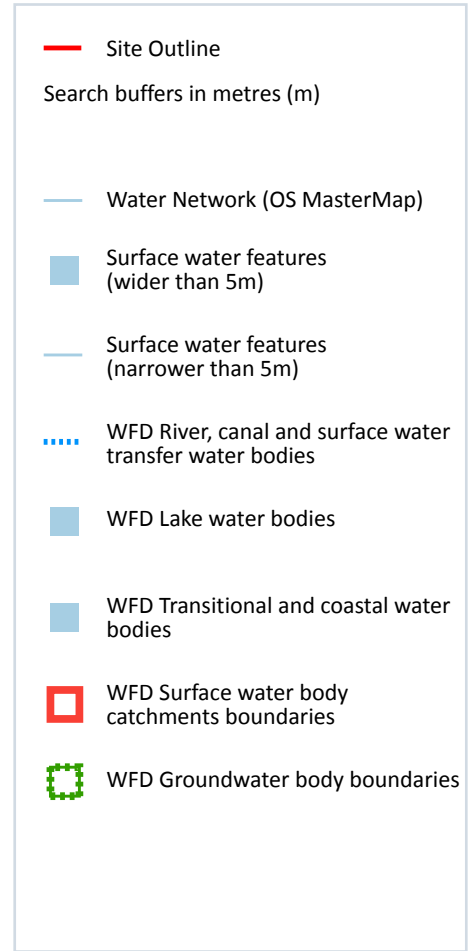
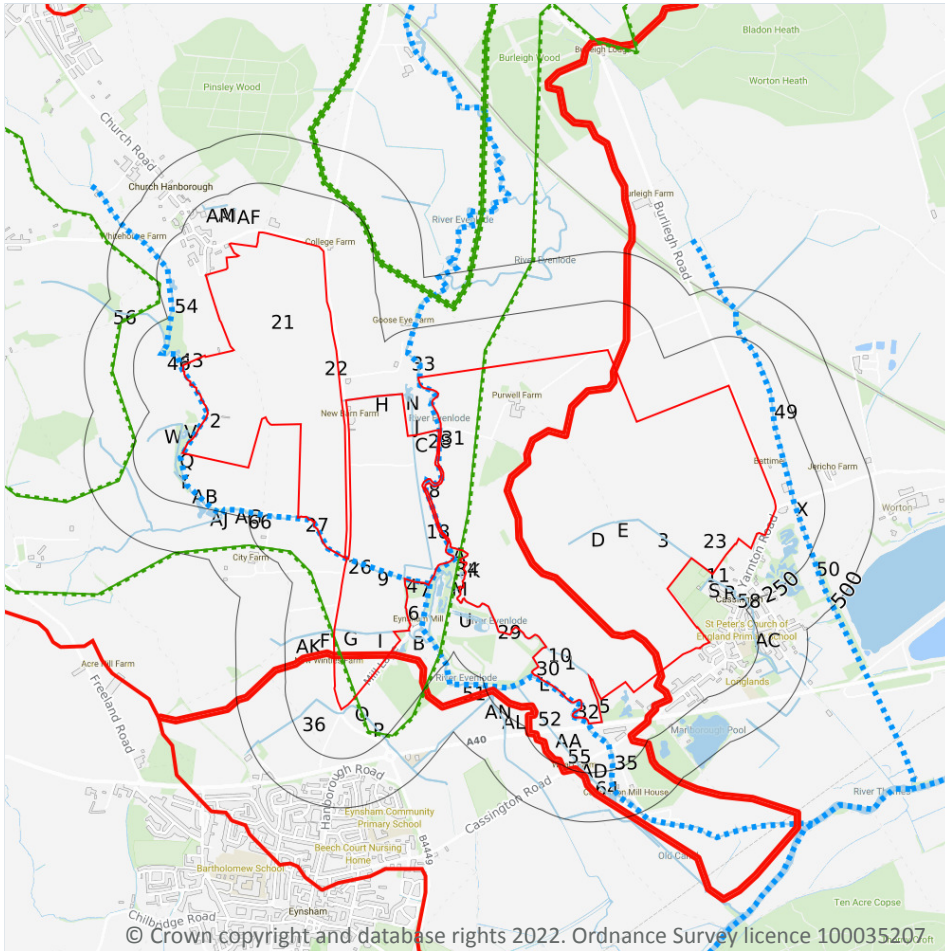
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0
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Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

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

6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m

122

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

Features are displayed on the Hydrology map on **page 70**

ID	Location	Type of water feature	Ground level	Permanence	Name
1	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
8	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
9	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
18	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
C	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
26	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
K	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
27	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
28	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
29	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
30	1m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
31	1m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	1m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
M	2m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
32	2m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
L	3m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
N	3m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
33	3m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
M	4m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
34	4m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode



ID	Location	Type of water feature	Ground level	Permanence	Name
35	4m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
M	5m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
M	5m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
L	5m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
M	5m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
M	6m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
K	7m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	8m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	11m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	11m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
36	11m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Eynsham Mead Ditch
O	19m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	21m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Eynsham Mead Ditch



ID	Location	Type of water feature	Ground level	Permanence	Name
R	25m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	25m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	26m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	26m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
B	28m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	29m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
M	32m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	River Evenlode
M	34m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
M	37m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	40m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	42m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	49m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	50m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
U	50m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
U	50m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	52m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	52m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
B	52m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
B	52m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
U	54m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
U	55m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	56m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	56m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	56m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	60m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
U	61m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
43	63m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	64m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
U	66m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	71m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	71m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
46	77m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	78m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	81m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
V	84m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	87m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
49	94m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	94m E	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
50	94m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
B	96m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
B	100m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
51	101m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Evenlode
L	101m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
Y	103m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
52	104m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
Y	117m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
54	127m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	130m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
55	131m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
56	132m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
58	135m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	136m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
AB	136m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AC	154m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	163m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	194m S	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
AJ	194m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	195m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AK	202m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AK	205m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	206m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
64	209m S	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Old Canal
AL	215m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AM	216m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	218m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
66	231m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AN	232m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AM	233m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AM	234m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

60

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

Features are displayed on the Hydrology map on **page 70**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

2

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
22	On site	River	Evenlode (Glyme to Thames)	GB106039029880	Evenlode	Cotswolds
23	On site	River	Thames (Evenlode to Thame)	GB106039030334	Ock	Gloucestershire and the Vale



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

6.4 WFD Surface water bodies

Records identified

2

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
J	On site	River	Evenlode (Glyme to Thames)	GB106039029880	Poor	Fail	Poor	2019
48	94m E	River	Thames (Evenlode to Thame)	GB106039030334	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site

1

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

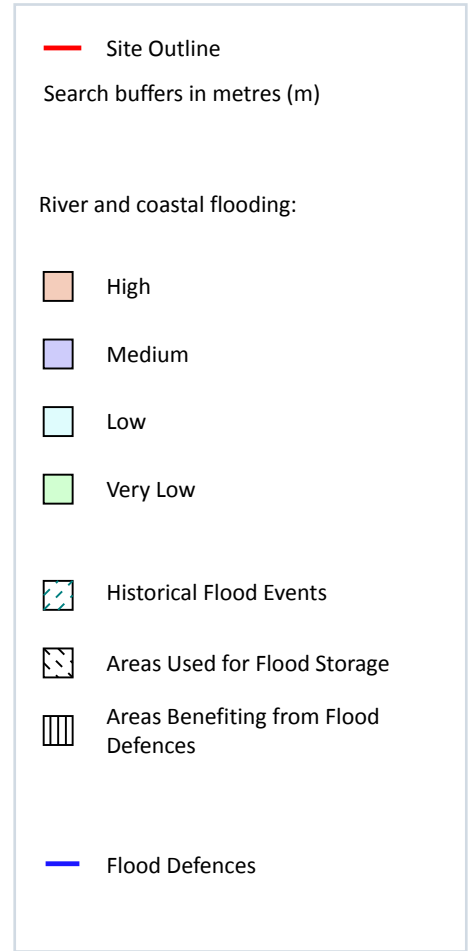
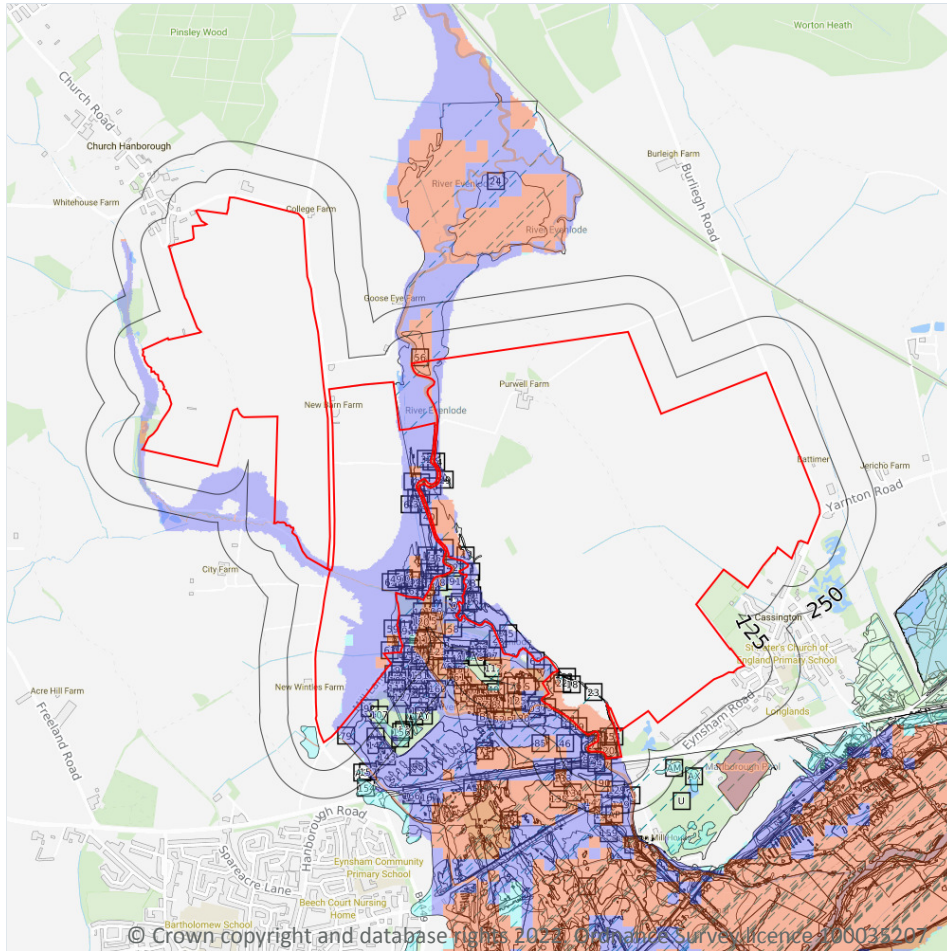
Features are displayed on the Hydrology map on **page 70**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
21	On site	Kemble Forest Marble	GB40602G600500	Poor	Poor	Good	2019

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



7 River and coastal flooding



7.1 Risk of flooding from rivers and the sea

Records within 50m

43

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).

Features are displayed on the River and coastal flooding map on **page 82**

Distance	Flood risk category
On site	High
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	219
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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.

Features are displayed on the River and coastal flooding map on **page 82**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
17	On site	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
18	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
19	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
20	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
21	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
22	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
23	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
24	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
25	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
26	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
27	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
28	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
29	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
30	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
31	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
32	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
33	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
34	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
35	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
36	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
37	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
38	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
39	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
40	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
41	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
42	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
43	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
44	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
45	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
46	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
47	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
48	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
49	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
50	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
51	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
52	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
53	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
54	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
55	On site	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
56	On site	06octoberautumn1993	1993-01-01 1993-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
57	On site	06januarynewyear2003	2002-12-23 2003-01-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
58	On site	Cassington Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
59	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
60	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
61	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
62	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
63	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
A	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
A	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
B	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
C	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
E	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
E	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
F	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
F	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
G	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
G	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
G	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
G	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
G	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
G	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
G	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
G	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
G	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
H	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
H	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
I	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
I	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
J	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
K	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
K	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
L	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
M	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
M	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
N	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
N	On site	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
O	0m E	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
O	1m E	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
H	1m NW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
O	1m E	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
65	1m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
71	6m SW	Cassington Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
Q	8m W	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
73	11m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
R	13m W	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
76	13m W	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
77	16m S	06marchspring1947	1947-01-01 1947-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
78	16m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
79	17m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
80	18m W	Cassington Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
S	18m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
L	20m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
T	20m E	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
81	21m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
U	23m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
84	25m SE	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
85	25m SW	Cassington Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
V	27m NW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
Q	30m W	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
T	30m E	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
87	32m SW	Cassington Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
88	34m S	Cassington Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
89	34m E	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
90	35m S	Cassington Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
91	36m W	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
V	36m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
92	36m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
Q	37m W	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
93	37m E	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
94	39m SW	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
95	39m SE	Cassington Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
96	43m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
97	43m W	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
98	44m S	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
L	44m S	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
W	44m SE	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
X	46m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
W	47m SE	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
W	47m SE	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
100	47m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
Y	49m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
Z	50m SE	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
T	51m E	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
102	52m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
103	52m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AA	52m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
106	59m SE	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
P	64m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AB	65m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
107	65m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
108	67m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
110	73m S	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
111	74m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
112	76m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
Z	78m SE	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
AC	79m W	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
113	80m E	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AD	81m SW	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AE	82m SE	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
115	83m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AF	84m E	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AB	87m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
119	92m E	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AF	93m E	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
120	93m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
122	96m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
123	97m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
124	98m SE	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
125	98m W	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
S	99m W	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
126	101m SE	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
127	106m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
129	116m S	06januarynewyear2003	2002-12-23 2003-01-12	Drainage	Channel capacity exceeded (no raised defences)	Fluvial
130	117m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
131	126m SE	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
X	128m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
X	130m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AE	133m SE	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
133	137m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
134	139m SW	06januarynewyear2003	2002-12-23 2003-01-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AH	145m SE	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
AI	146m S	06decemberwinter2000	2000-01-01 2000-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AJ	149m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AK	152m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AC	154m W	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
135	158m SW	Cassington Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
138	158m SW	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AH	158m SE	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
AL	160m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
140	162m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AK	163m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AM	164m SE	Cassington Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
142	167m SE	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
AJ	168m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
143	169m SE	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
144	170m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
145	178m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
146	187m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AO	188m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
147	193m S	Cassington Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
148	194m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
149	195m S	06januarynewyear2003	2002-12-23 2003-01-12	Other	Local drainage/surface water	Fluvial
150	197m W	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AQ	201m S	06decemberwinter2000	2000-01-01 2000-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AR	205m W	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AS	206m E	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
AS	207m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AS	208m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
Y	208m SE	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
AR	209m W	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
151	210m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
152	214m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
153	217m S	Cassington Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AS	218m E	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
154	219m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AS	221m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
156	222m SE	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
157	222m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
158	222m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
159	223m S	Cassington Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
160	224m SE	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
AS	227m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AW	227m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
161	230m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
163	232m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AW	234m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AX	234m SE	06februarywinter1979	1979-01-01 1979-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AS	234m SE	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
AS	236m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AY	239m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
164	240m SW	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AS	241m SE	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AW	241m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AZ	242m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AZ	242m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
166	246m W	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
BA	247m W	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
AP	248m S	06januarynewyear2003	2002-12-23 2003-01-12	Other	Local drainage/surface water	Fluvial
167	249m SE	Eynsham Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial

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

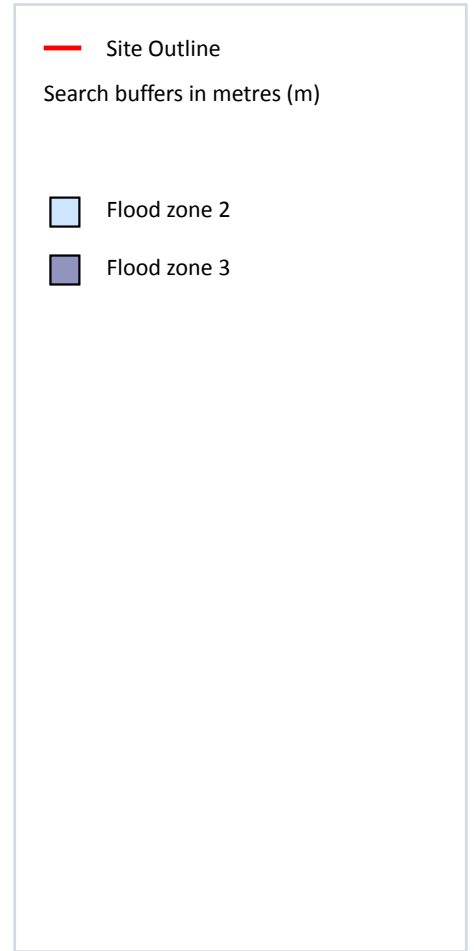
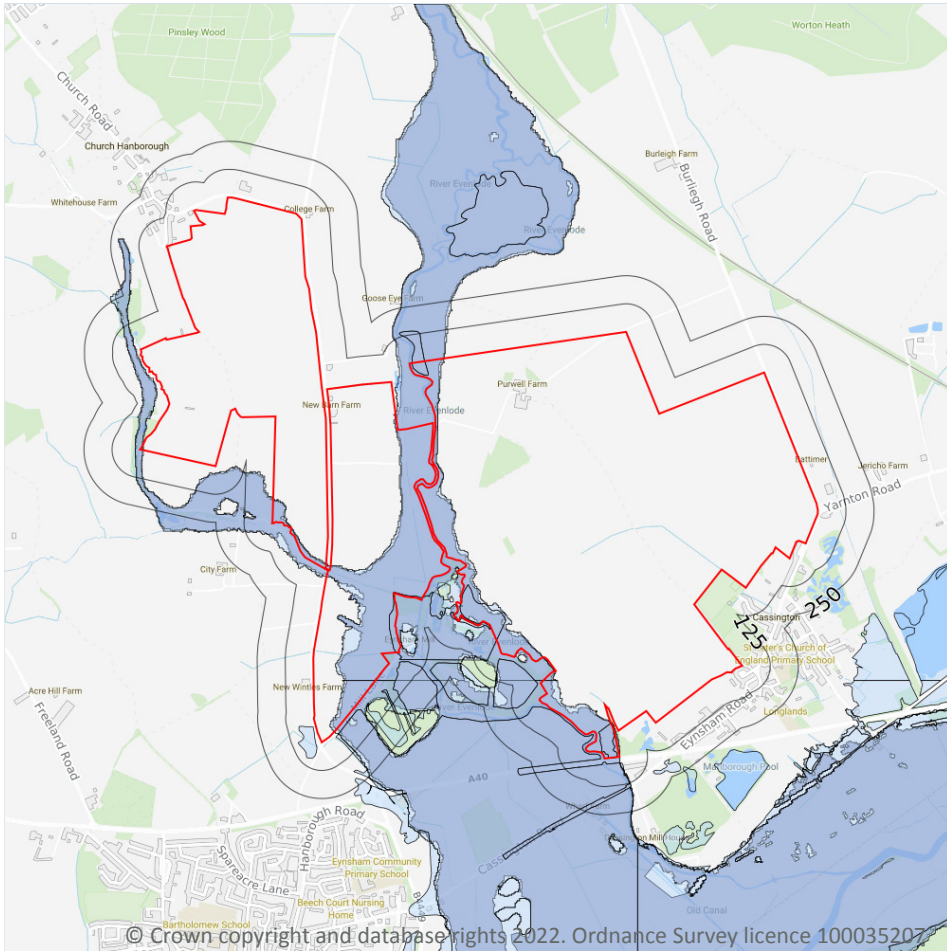
0

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

1

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.

Features are displayed on the River and coastal flooding map on **page 82**

Location	Type
----------	------

On site Zone 2 - (Fluvial /Tidal Models)

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

7.7 Flood Zone 3

Records within 50m

1

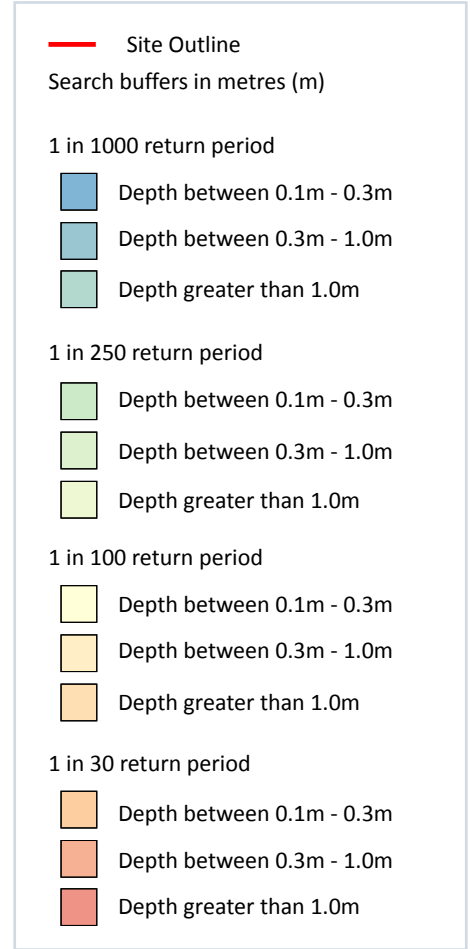
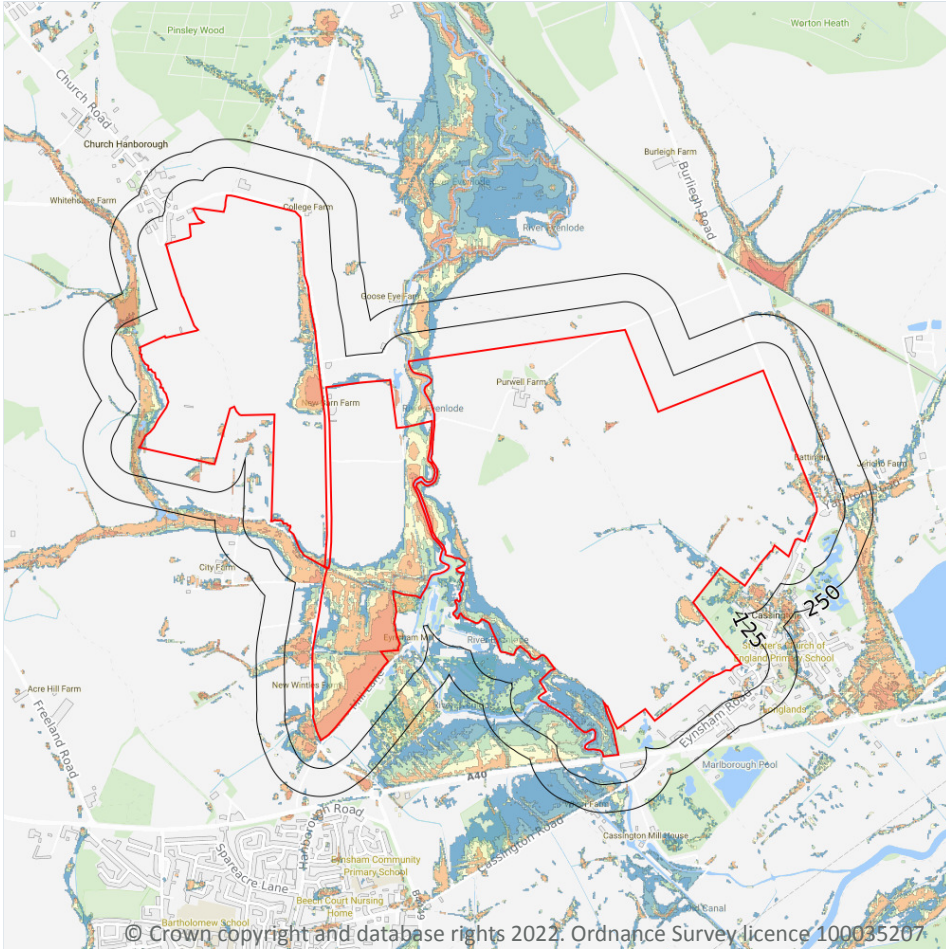
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 82**

Location	Type
On site	Zone 3 - (Fluvial Models)

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

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

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.

Features are displayed on the Surface water flooding map on **page 99**

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.

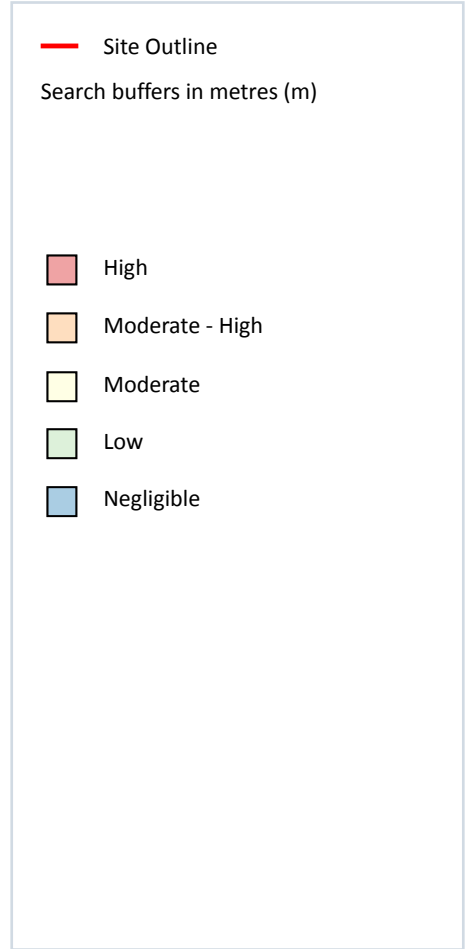
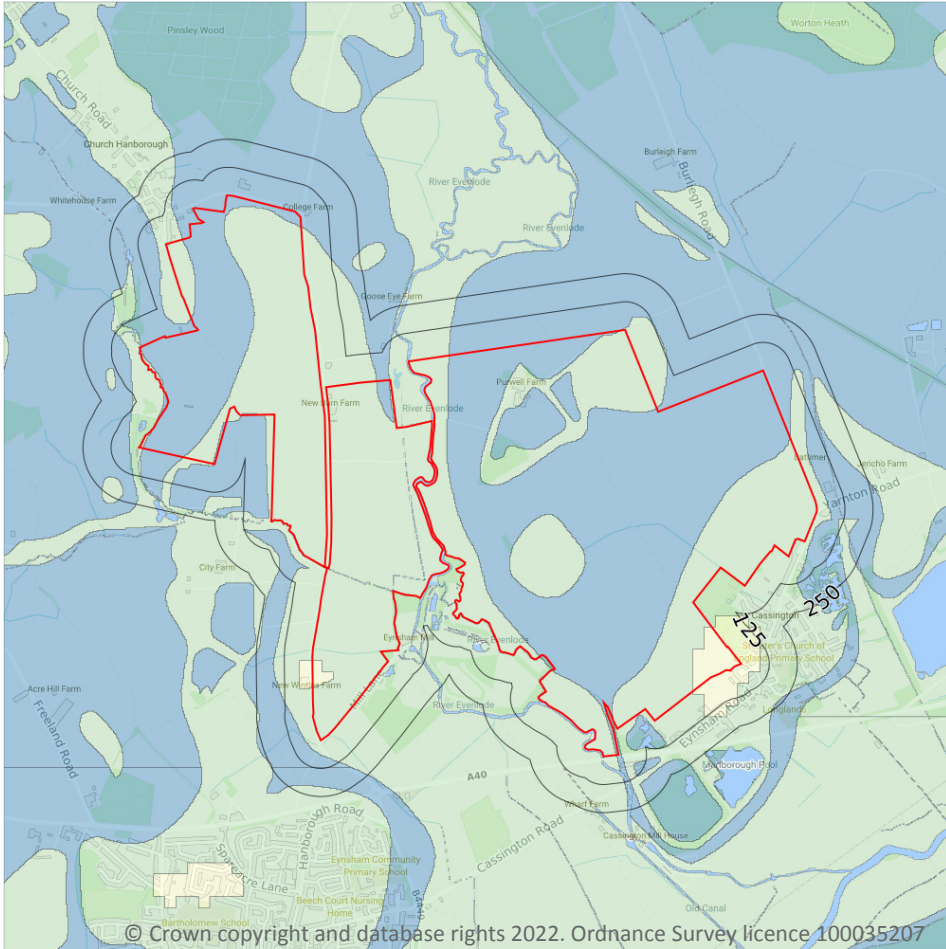
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

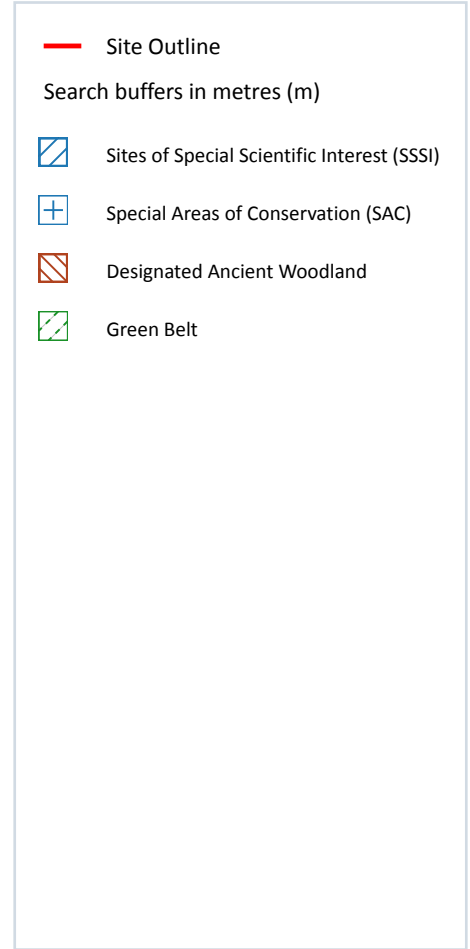
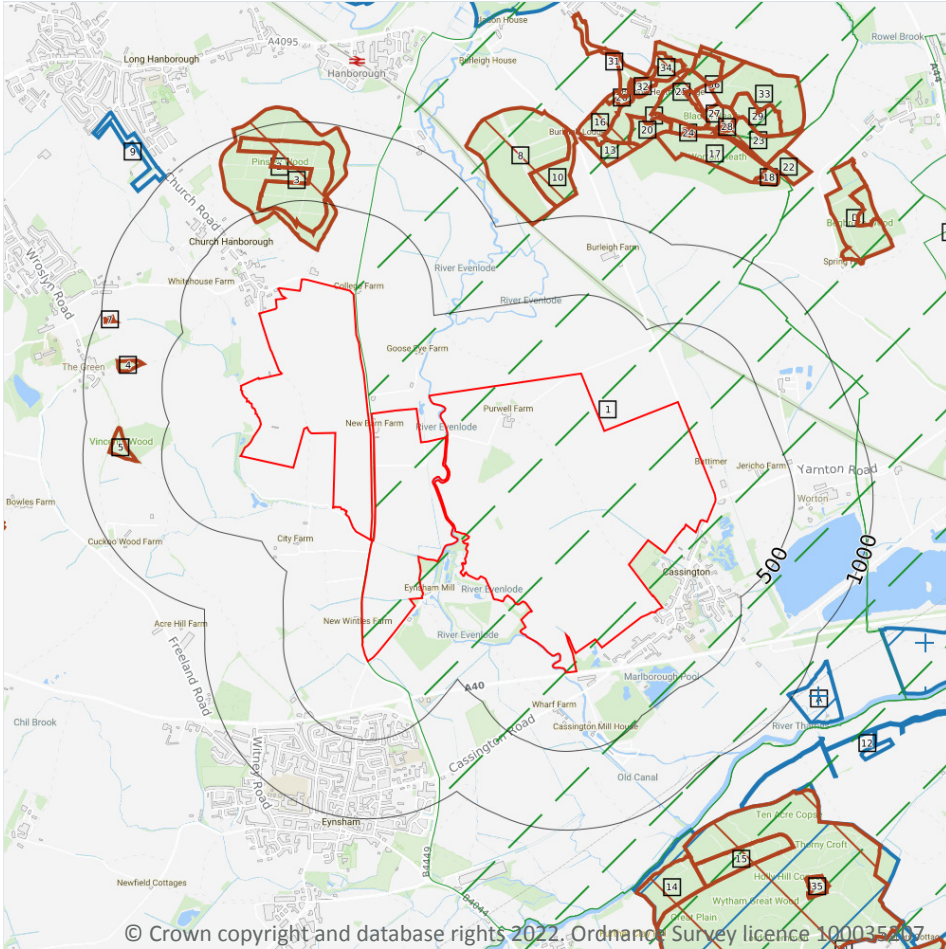
Highest risk on site	Moderate
Highest risk within 50m	Moderate

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 101**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

6

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 102**

ID	Location	Name	Data source
A	972m SE	Cassington Meadows	Natural England

ID	Location	Name	Data source
9	1016m NW	Long Hanborough Gravel Pit	Natural England
B	1240m SE	Wytham Woods	Natural England
12	1247m SE	Wytham Ditches and Flushes	Natural England
C	1298m SE	Pixey and Yarnton Meads	Natural England
30	1775m N	Blenheim Park	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

2

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

Features are displayed on the Environmental designations map on **page 102**

ID	Location	Name	Features of interest	Habitat description	Data source
A	972m SE	Oxford Meadows	Lowland hay meadows; Creeping marshwort.	Improved grassland; Humid grassland, Mesophile grassland	Natural England
C	1298m SE	Oxford Meadows	Lowland hay meadows; Creeping marshwort.	Improved grassland; Humid grassland, Mesophile grassland	Natural England

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



10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

33

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 102**

ID	Location	Name	Woodland Type
2	200m N	Pinsley Wood	Ancient & Semi-Natural Woodland
3	299m N	Pinsley Wood	Ancient Replanted Woodland
4	635m W	The Thrift	Ancient & Semi-Natural Woodland
5	661m W	Vincent's Wood	Ancient & Semi-Natural Woodland

ID	Location	Name	Woodland Type
7	901m NW	The Thrift	Ancient & Semi-Natural Woodland
8	981m N	Burleigh Wood	Ancient Replanted Woodland
10	1071m N	Burleigh Wood	Ancient & Semi-Natural Woodland
B	1279m SE	Wytham Great Wood	Ancient & Semi-Natural Woodland
13	1328m N	Bladon Heath	Ancient Replanted Woodland
14	1360m SE	Further Clay Hill	Ancient Replanted Woodland
D	1391m NE	Begbroke Wood	Ancient & Semi-Natural Woodland
15	1440m SE	Hither Clay Hill (Part Of Wytham Geat Wood)	Ancient Replanted Woodland
16	1457m N	Bladon Heath	Ancient & Semi-Natural Woodland
17	1471m N	Worton Heath	Ancient Replanted Woodland
18	1476m N	Worton Heath	Ancient & Semi-Natural Woodland
19	1483m N	Bladon Heath	Ancient & Semi-Natural Woodland
20	1489m N	Bladon Heath	Ancient Replanted Woodland
21	1564m W	Castles Copse	Ancient Replanted Woodland
22	1565m NE	Unknown	Ancient & Semi-Natural Woodland
D	1600m NE	Begbroke Wood	Ancient Replanted Woodland
23	1605m N	Worton Heath?	Ancient & Semi-Natural Woodland
24	1649m NE	Bladon Heath	Ancient Replanted Woodland
25	1703m N	Bladon Heath	Ancient & Semi-Natural Woodland
26	1713m N	Bladon Heath	Ancient Replanted Woodland
27	1746m NE	Bladon Heath	Ancient Replanted Woodland
28	1748m N	Worton Heath	Ancient & Semi-Natural Woodland
29	1774m N	Bladon Heath	Ancient Replanted Woodland
31	1777m N	Bladon Heath	Ancient & Semi-Natural Woodland
32	1793m N	Bladon Heath	Ancient Replanted Woodland
33	1819m N	Bladon Heath	Ancient & Semi-Natural Woodland
34	1923m N	Bladon Heath	Ancient Replanted Woodland
35	1943m SE	Wytham Great Wood	Ancient Replanted Woodland



ID	Location	Name	Woodland Type
36	1992m NE	Bladon Heath	Ancient Replanted Woodland

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

10.8 Biosphere Reserves

Records within 2000m **0**

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

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

10.9 Forest Parks

Records within 2000m **0**

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m **0**

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

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

10.11 Green Belt

Records within 2000m **3**

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

Features are displayed on the Environmental designations map on **page 102**

ID	Location	Name	Local Authority name
1	On site	Oxford	West Oxfordshire
6	853m NE	Oxford	Cherwell



ID	Location	Name	Local Authority name
11	1074m SE	Oxford	Vale of White Horse

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

10.12 Proposed Ramsar sites

Records within 2000m	0
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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
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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
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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
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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

11

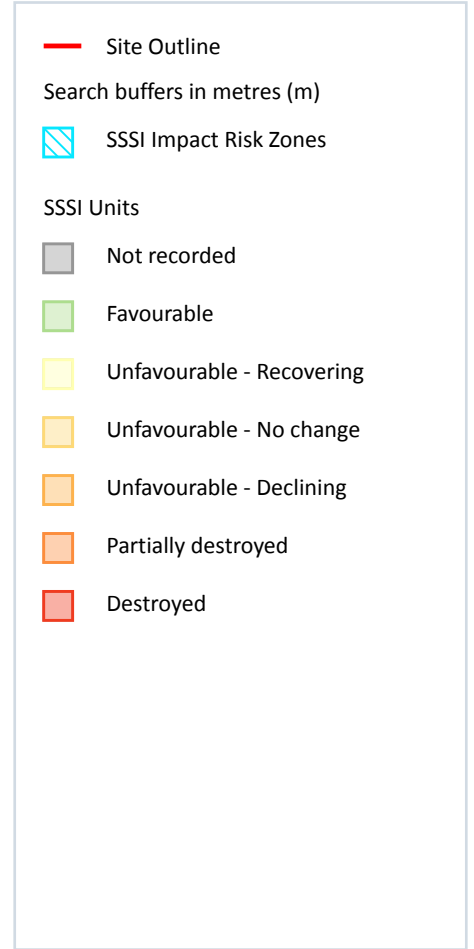
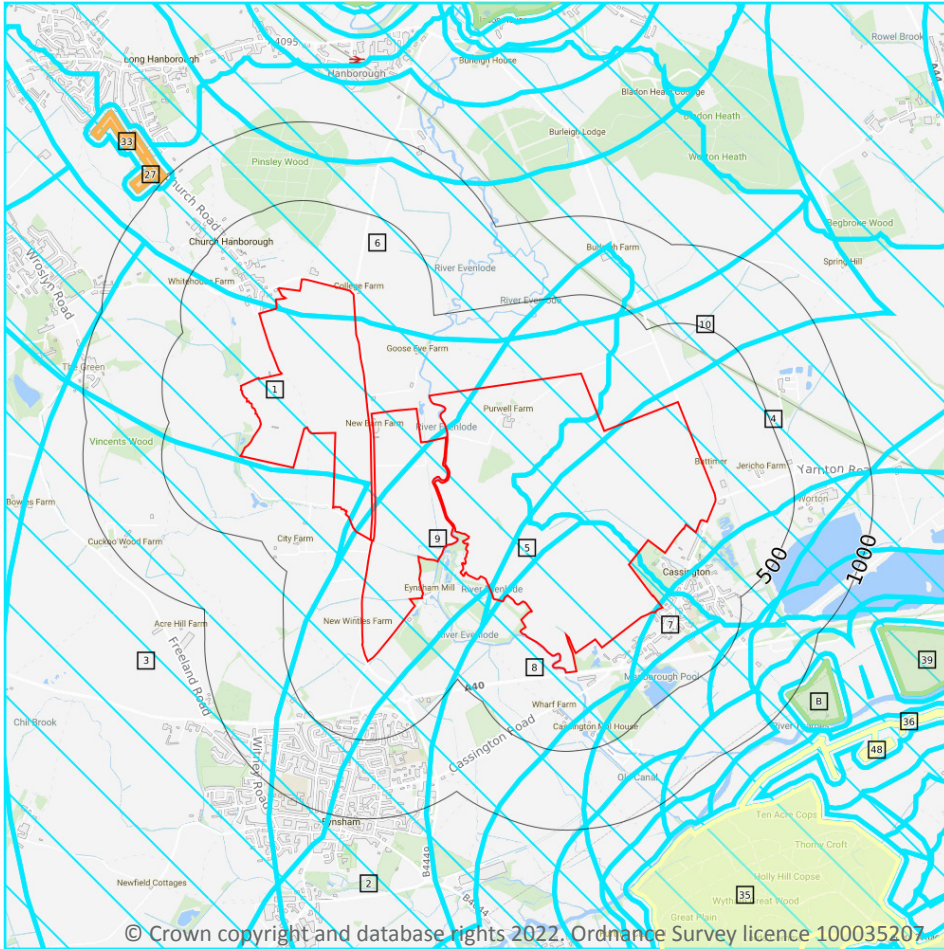
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	Evenlode (Glyme to Thames) NVZ	Surface Water	473	Existing
On site	Evenlode (Glyme to Thames) NVZ	Surface Water	473	Existing
On site	THAMES (LEACH TO EVENLODE) NVZ	Surface Water	482	Existing
630m SW	Chil and Limb Brooks (source to B4044) NVZ	Surface Water	480	Existing
770m S	THAMES (LEACH TO EVENLODE) NVZ	Surface Water	482	Existing
1211m E	Cherwell (Ray to Thames) and Woodeaton Brook NVZ	Surface Water	472	Existing
1265m NW	Evenlode (Bledington to Glyme confluence) NVZ	Surface Water	475	Existing
1411m NW	Cotswold Jurassic	Groundwater	83	Existing
1775m N	Glyme (Dorn confluence to Evenlode) NVZ	Surface Water	474	Existing
1840m N	Glyme (Dorn confluence to Evenlode) NVZ	Surface Water	474	Existing
1893m N	Cotswold Jurassic	Groundwater	83	Existing

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



SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

10

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 109**

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</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>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t).</p> <p>Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>
2	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</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>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).</p> <p>Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>
3	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Oil & gas exploration/extraction.</p> <p>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t).</p> <p>Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>

ID	Location	Type of developments requiring consultation
4	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>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>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).</p> <p>Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m³/day 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 total net additional gross internal floorspace following development is 1,000m² or more.</p>
5	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>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>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).</p> <p>Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m³/day 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 total net additional gross internal floorspace following development is 1,000m² or more.</p>

ID	Location	Type of developments requiring consultation
6	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>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>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).</p> <p>Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m³/day 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 total net additional gross internal floorspace following development is 1,000m² or more.</p>
7	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>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 footprint exceeds 1ha.</p> <p>Residential - Residential development of 100 units or more.</p> <p>Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas.</p> <p>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).</p> <p>Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m³/day 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>



ID	Location	Type of developments requiring consultation
8	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>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 footprint exceeds 1ha.</p> <p>Rural residential - Any residential development of 100 or more houses outside existing settlements/urban areas.</p> <p>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).</p> <p>Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m³/day 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 total net additional gross internal floorspace following development is 1,000m² or more.</p>
9	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</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>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t).</p> <p>Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>
10	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</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>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t).</p> <p>Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>

This data is sourced from Natural England.



10.18 SSSI Units

Records within 2000m

9

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 109**

ID: B
 Location: 972m SE
 SSSI name: Cassington Meadows
 Unit name: 1
 Broad habitat: Neutral Grassland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Floodplain fen (lowland)	Favourable	26/11/2021
H6510 Lowland hay meadows (A. pratensis, S. officinalis)	Favourable	09/12/2021
Lowland neutral grassland (MG4)	Favourable	26/11/2021

ID: 27
 Location: 1016m NW
 SSSI name: Long Hanborough Gravel Pit
 Unit name: South
 Broad habitat: Earth Heritage
 Condition: Unfavourable - Declining
 Reportable features:

Feature name	Feature condition	Date of assessment
ED - Quaternary of the Thames	Unfavourable - Declining	12/12/2012

ID: 33
 Location: 1193m NW
 SSSI name: Long Hanborough Gravel Pit
 Unit name: North
 Broad habitat: Earth Heritage
 Condition: Unfavourable - Declining
 Reportable features:



Feature name	Feature condition	Date of assessment
ED - Quaternary of the Thames	Unfavourable - Declining	11/12/2012

ID: 35
 Location: 1240m SE
 SSSI name: Wytham Woods
 Unit name: Wytham Great Wood
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Unfavourable - Recovering	17/05/2012

ID: 36
 Location: 1247m SE
 SSSI name: Wytham Ditches and Flushes
 Unit name: ~2km Of Ditches
 Broad habitat: Standing Open Water And Canals
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Ditches	Unfavourable - Recovering	05/08/2014
Nationally scarce plant - Sium latifolium, Greater Water-parsnip	Favourable	05/08/2014

ID: 39
 Location: 1298m SE
 SSSI name: Pixey and Yarnton Meads
 Unit name: West Mead
 Broad habitat: Neutral Grassland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
H6510 Lowland hay meadows (A. pratensis, S. officinalis)	Favourable	22/07/2020
Lowland neutral grassland (MG4)	Favourable	22/07/2020



ID: 48
Location: 1570m SE
SSSI name: Wytham Ditches and Flushes
Unit name: Fen
Broad habitat: Fen, Marsh And Swamp - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland fens, including basin, flood-plain, open water transition and valley fens	Unfavourable - Recovering	05/08/2014

ID: 54
Location: 1775m N
SSSI name: Blenheim Park
Unit name: 2
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Invert. assemblage A211 heartwood decay	Favourable	17/06/2020
Invert. assemblage A212 bark and sapwood decay	Favourable	17/06/2020
Invert. assemblage A213 fungal fruiting body	Favourable	17/06/2020

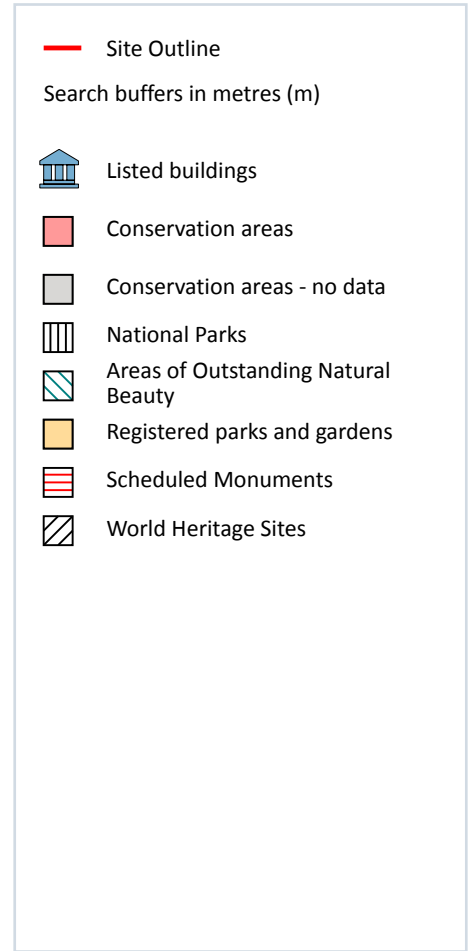
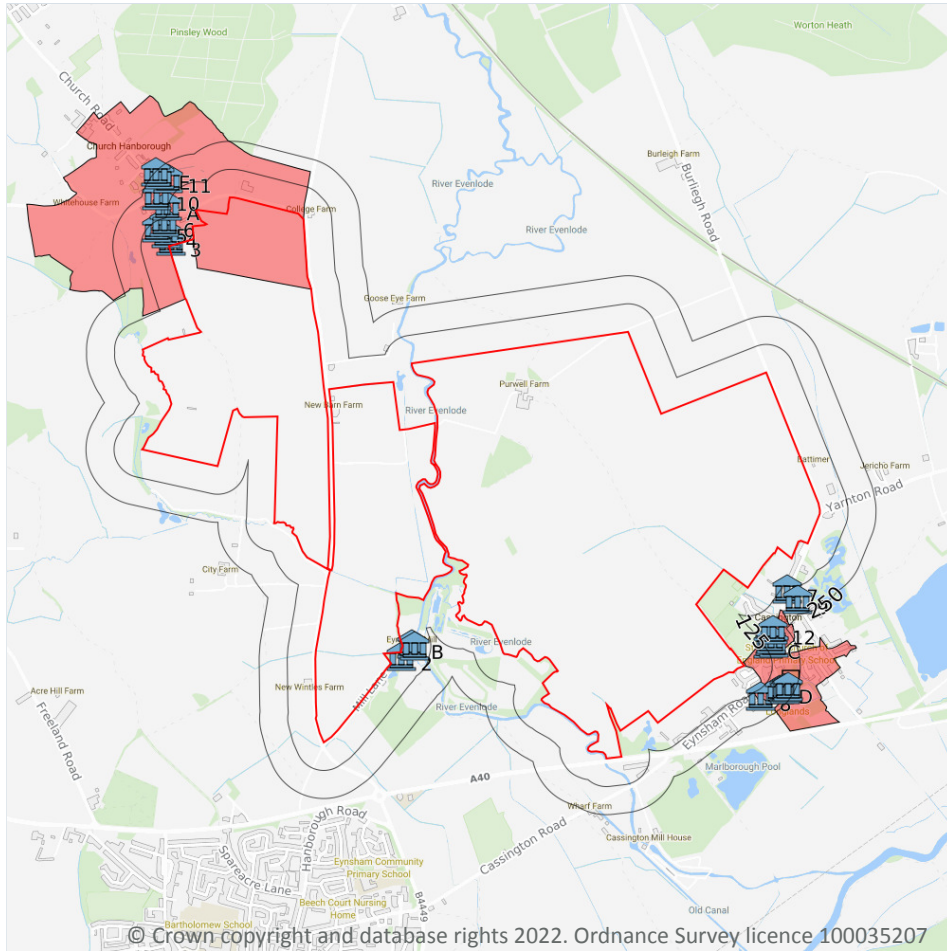
ID: 57
Location: 1861m NE
SSSI name: Blenheim Park
Unit name: 3
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Invert. assemblage A211 heartwood decay	Favourable	17/06/2020
Invert. assemblage A212 bark and sapwood decay	Favourable	17/06/2020
Invert. assemblage A213 fungal fruiting body	Favourable	17/06/2020

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

26

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

Features are displayed on the Visual and cultural designations map on **page 117**

ID	Location	Name	Grade	Reference Number	Listed date
2	17m S	Bridge Approximately 40 Metres South West of Eynsham Mill, Eynsham, West Oxfordshire, Oxfordshire, OX29	II	1283836	17/10/1988
3	18m N	Dunbar, Hanborough, West Oxfordshire, Oxfordshire, OX29	II	1198923	29/06/1988
B	42m E	Eynsham Mill, Eynsham, West Oxfordshire, Oxfordshire, OX29	II	1198409	17/10/1988
B	53m E	Bridge and Attached Weir Walls Approximately 1 Metre East of Eynsham Mill, Eynsham, West Oxfordshire, Oxfordshire, OX29	II	1368246	17/10/1988



ID	Location	Name	Grade	Reference Number	Listed date
4	58m N	Outbuilding and Attached Wall Approximately 50 Metres South of The Barn House, Hanborough, West Oxfordshire, Oxfordshire, OX29	II	1367969	29/06/1988
5	99m NW	2 Barns Approximately 20 Metres West South West of The Barn House, Hanborough, West Oxfordshire, Oxfordshire, OX29	II	1198943	16/05/1986
6	110m N	The Barn House, Hanborough, West Oxfordshire, Oxfordshire, OX29	II	1198930	29/06/1988
A	129m W	Shepherds Well, Hanborough, West Oxfordshire, Oxfordshire, OX29	II	1367968	29/06/1988
7	136m S	The Laurels, Cassington, West Oxfordshire, Oxfordshire, OX29	II	1053043	29/06/1988
C	145m NE	The Cottage, Cassington, West Oxfordshire, Oxfordshire, OX29	II	1198588	29/06/1988
8	152m SE	Phoenix Cottage, Cassington, West Oxfordshire, Oxfordshire, OX29	II	1283788	29/06/1988
C	158m NE	Stork Cottage, Cassington, West Oxfordshire, Oxfordshire, OX29	II	1053042	29/06/1988
C	166m NE	Cassington War Memorial, Cassington, West Oxfordshire, Oxfordshire, OX29	II	1474377	08/04/2021
C	168m NE	Osborne Cottage, Cassington, West Oxfordshire, Oxfordshire, OX29	II	1198582	29/06/1988
9	183m S	Lime Cottage, Cassington, West Oxfordshire, Oxfordshire, OX29	II	1053036	29/06/1988
10	187m W	Thatched Cottage, Hanborough, West Oxfordshire, Oxfordshire, OX29	II	1198921	29/06/1988
D	188m SE	Base of Churchyard Cross Approximately 12 Metres West North West of Nave of Church of St Peter, Cassington, West Oxfordshire, Oxfordshire, OX29	II	1053040	29/06/1988
11	190m NW	Barn Approximately 30 Metres East South East of Mylors, Hanborough, West Oxfordshire, Oxfordshire, OX29	II	1052996	29/06/1988
12	198m NE	Hampton House, Cassington, West Oxfordshire, Oxfordshire, OX29	II	1367911	29/06/1988
D	203m SE	Chest Tomb Approximately 4 Metres North East of North Porch of Church of St Peter, Cassington, West Oxfordshire, Oxfordshire, OX29	II	1283784	29/06/1988
D	208m SE	Headstone Approximately 4.5 Metres North of Chancel of Church of St Peter, Cassington, West Oxfordshire, Oxfordshire, OX29	II	1367950	29/06/1988



ID	Location	Name	Grade	Reference Number	Listed date
D	212m SE	Church of St Peter, Cassington, West Oxfordshire, Oxfordshire, OX29	I	1367949	12/09/1955
D	213m SE	Group of 5 Headstones Approximately 3 Metres North of Chancel of Church of St Peter, Cassington, West Oxfordshire, Oxfordshire, OX29	II	1283782	29/06/1988
D	218m SE	Chest Tomb Approximately 6 Metres North East of Chancel of Church of St Peter, Cassington, West Oxfordshire, Oxfordshire, OX29	II	1053039	29/06/1988
E	228m NW	Mylors and Attached Outbuilding, Hanborough, West Oxfordshire, Oxfordshire, OX29	II	1052995	29/06/1988
E	250m NW	The Ferrets, Hanborough, West Oxfordshire, Oxfordshire, OX29	II	1198907	07/01/1975

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

11.5 Conservation Areas

Records within 250m

2

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

Features are displayed on the Visual and cultural designations map on **page 117**

ID	Location	Name	District	Date of designation
A	On site	Church Hanborough	West Oxfordshire	10/05/1990
1	6m E	Cassington	West Oxfordshire	30/11/1992

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial



sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

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

11.7 Registered Parks and Gardens

Records within 250m

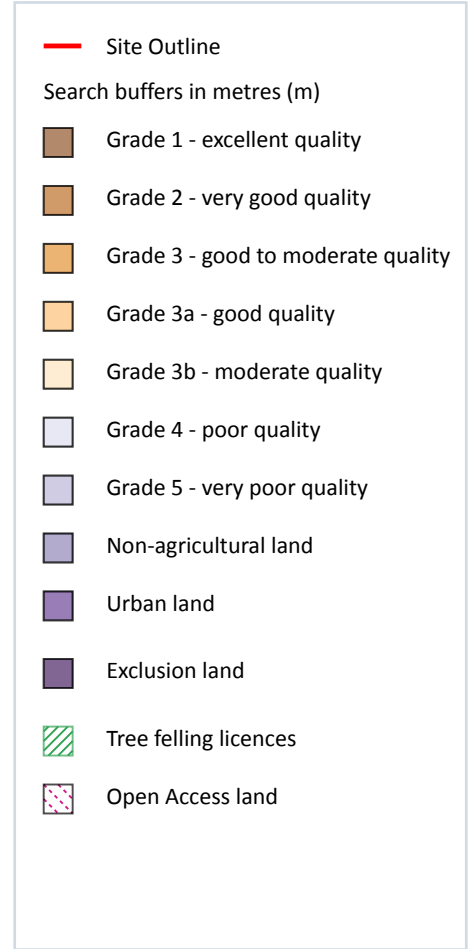
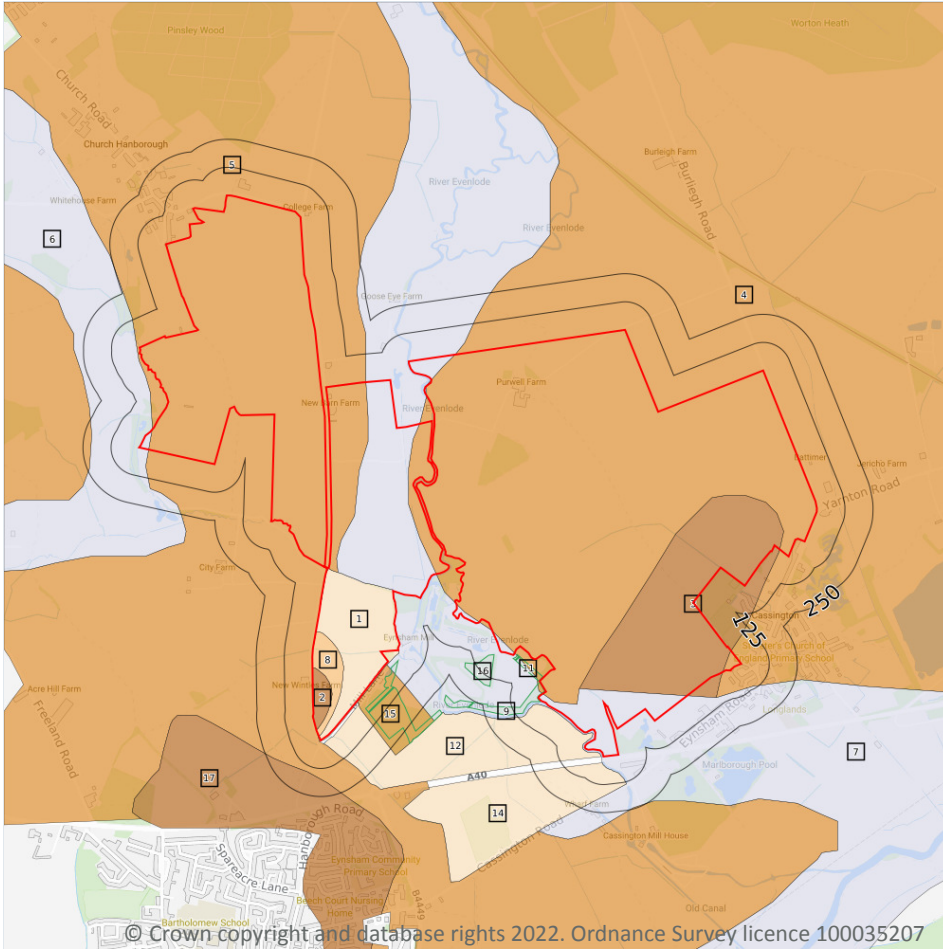
0

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

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



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

11

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 122**

ID	Location	Classification	Description
1	On site	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

ID	Location	Classification	Description
2	On site	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
3	On site	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
4	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.
5	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.
6	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
7	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
8	On site	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.
12	7m SW	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
14	29m S	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.



ID	Location	Classification	Description
17	152m SW	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0
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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	4
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Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

Features are displayed on the Agricultural designations map on **page 122**

ID	Location	Description	Reference	Application date
9	3m SW	Selective Fell/Thin (Unconditional)	019/230/09-10	07/10/2009
11	4m NW	Selective Fell/Thin (Unconditional)	019/230/09-10	07/10/2009
15	29m SE	Selective Fell/Thin (Unconditional)	019/230/09-10	07/10/2009
16	32m SW	Selective Fell/Thin (Unconditional)	019/230/09-10	07/10/2009

This data is sourced from the Forestry Commission.



12.4 Environmental Stewardship Schemes

Records within 250m
9

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.

Location	Reference	Scheme	Start Date	End date
On site	AG00352385	Organic Entry Level plus Higher Level Stewardship	01/06/2011	31/05/2021
1m W	AG00352385	Organic Entry Level plus Higher Level Stewardship	01/06/2011	31/05/2021
1m W	AG00299601	Organic Entry Level plus Higher Level Stewardship	01/01/2010	31/12/2019
14m SW	AG00299601	Organic Entry Level plus Higher Level Stewardship	01/01/2010	31/12/2019
45m SW	AG00299601	Organic Entry Level plus Higher Level Stewardship	01/01/2010	31/12/2019
131m NW	AG00299601	Organic Entry Level plus Higher Level Stewardship	01/01/2010	31/12/2019
183m SW	AG00299601	Organic Entry Level plus Higher Level Stewardship	01/01/2010	31/12/2019
200m NW	AG00358666	Entry Level plus Higher Level Stewardship	01/03/2012	28/02/2022
238m NW	AG00299601	Organic Entry Level plus Higher Level Stewardship	01/01/2010	31/12/2019

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m
4

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.

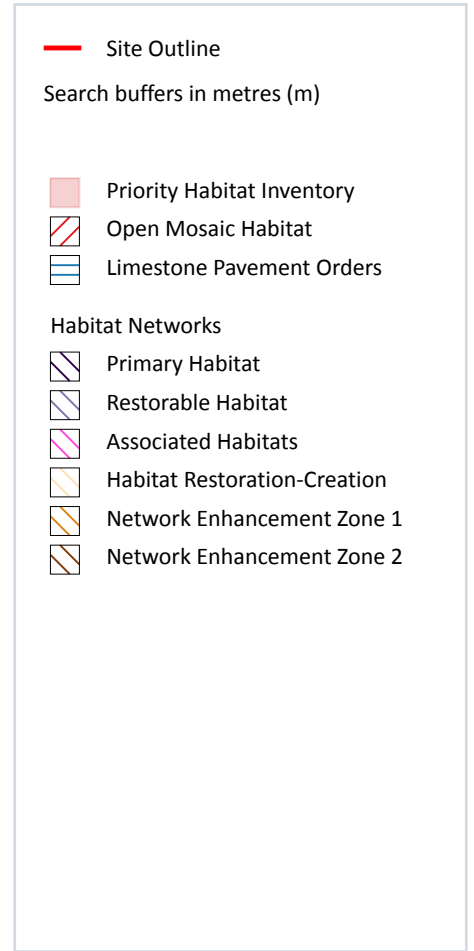
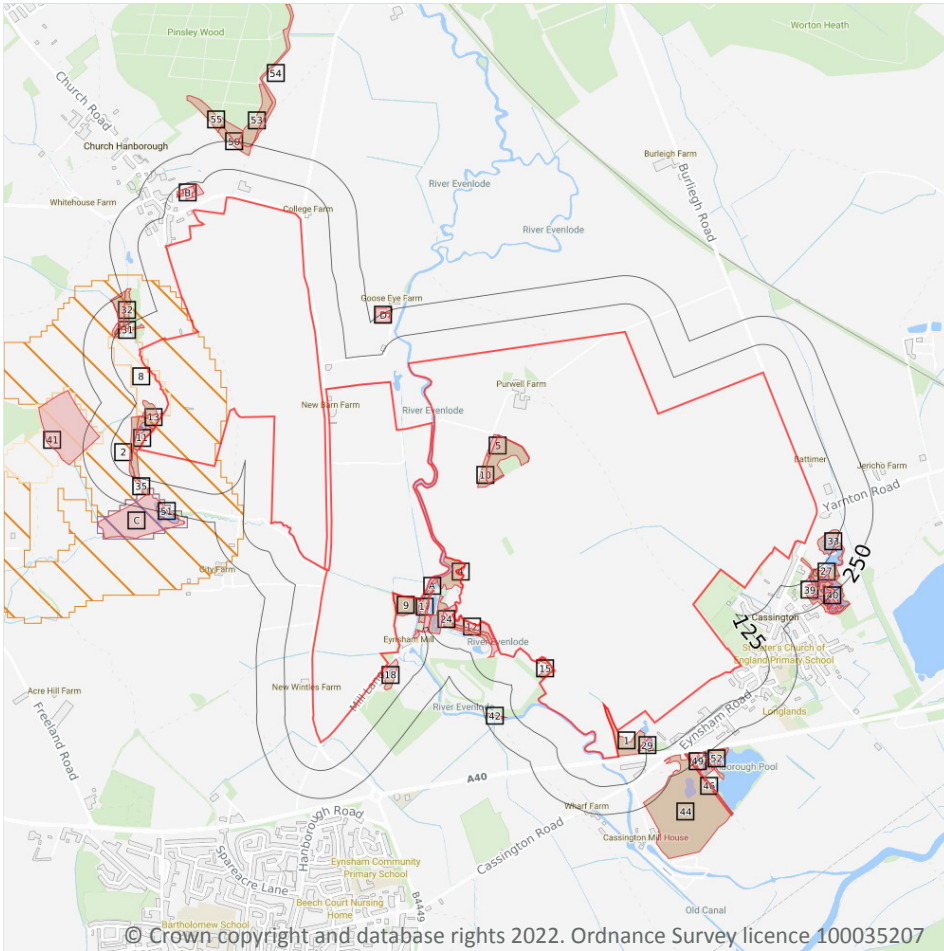
Location	Reference	Scheme	Start Date	End Date
1m W	1060851	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
131m NW	1060851	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
194m NW	474798	Countryside Stewardship (Middle Tier)	01/01/2018	31/12/2022
233m NW	1060851	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025



This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

61

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 127**

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
6	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	2m NW	Good quality semi-improved grassland	Main habitat: GQSIG (FEP + HLS)
12	2m SW	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)
13	2m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%); GQSIG (FEP + HLS)
14	2m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%); GQSIG (FEP + HLS)
15	3m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
16	9m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%); GQSIG (FEP + HLS)
17	9m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
18	10m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	10m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	11m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
19	15m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
20	20m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
21	24m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
22	26m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
23	27m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%); GQSIG (FEP + HLS)
24	29m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
25	35m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
26	39m NW	Good quality semi-improved grassland	Main habitat: GQSIG (FEP + HLS)
27	50m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	57m N	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
28	58m N	Traditional orchard	Main habitat: TORCH (INV > 50%)
29	69m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
30	74m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
31	80m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
B	88m NW	Traditional orchard	Main habitat: TORCH (INV > 50%)
B	104m NW	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
32	106m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
33	107m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
34	114m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
35	118m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%); GQSIG (FEP + HLS)
36	119m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
37	128m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
38	130m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
39	151m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
40	162m SE	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)
42	163m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
43	164m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%); GQSIG (FEP + HLS)
44	168m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	183m S	Good quality semi-improved grassland	Main habitat: GQSIG (FEP + HLS); Additional: LMEAD (FEP 50%)
45	185m W	Good quality semi-improved grassland	Main habitat: GQSIG (FEP + HLS)
46	191m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
47	193m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
48	196m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
D	197m NW	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
49	199m SE	No main habitat but additional habitats present	Main habitat: DWOOD (INV > 50%)
50	200m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
51	211m S	No main habitat but additional habitats present	Additional: LMEAD (FEP 50%)
D	225m NW	Traditional orchard	Main habitat: TORCH (INV > 50%)
52	234m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
53	236m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
D	238m N	Traditional orchard	Main habitat: TORCH (INV > 50%)
54	241m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
55	245m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

4

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.

Features are displayed on the Habitat designations map on **page 127**

ID	Location	Type	Habitat
2	On site	Network Enhancement Zone 1	Not specified
8	On site	Habitat Restoration-Creation	Not specified
C	156m S	Restorable Habitat	Not specified
41	163m W	Habitat Restoration-Creation	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave

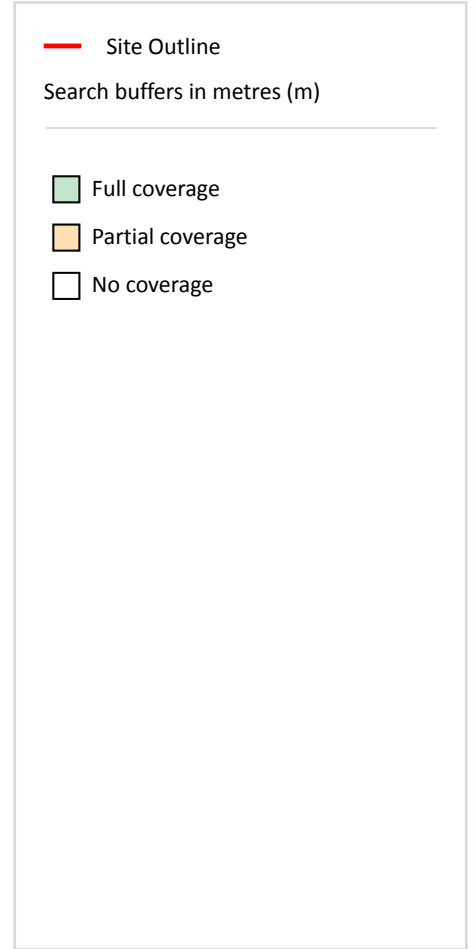
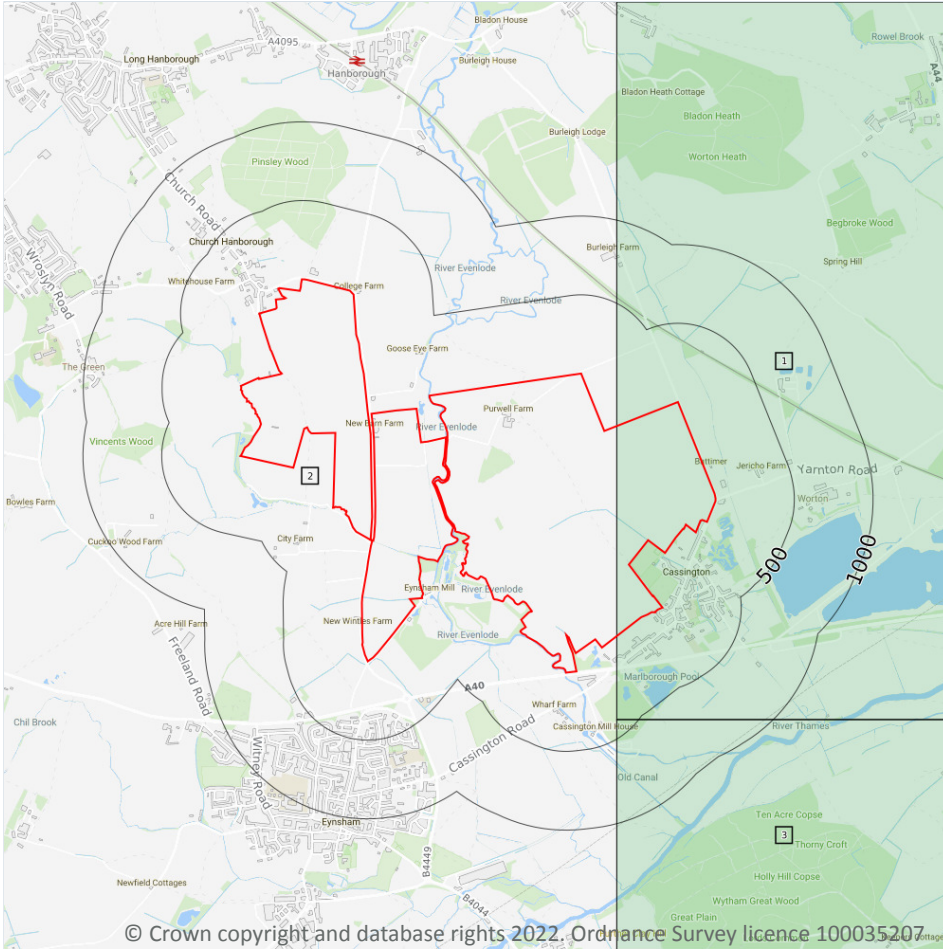


them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



14.1 10k Availability

Records within 500m

3

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.

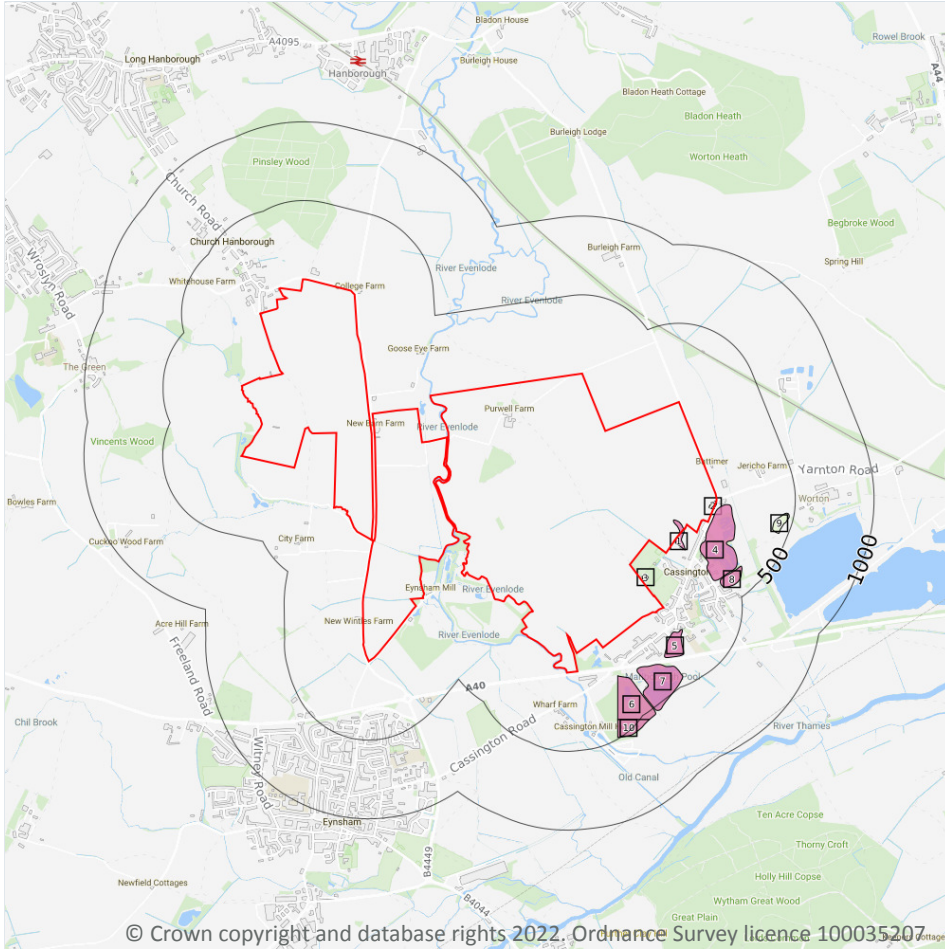
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 132**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SP41SE
2	On site	No coverage	No coverage	No coverage	No coverage	NoCov
3	399m SE	Full	Full	Full	Full	SP40NE

This data is sourced from the British Geological Survey.



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



14.2 Artificial and made ground (10k)

Records within 500m

10

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 133**

ID	Location	LEX Code	Description	Rock description
1	On site	WGR-VOID	Worked Ground (Undivided)	Void
2	On site	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	10m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
4	20m SE	WGR-VOID	Worked Ground (Undivided)	Void

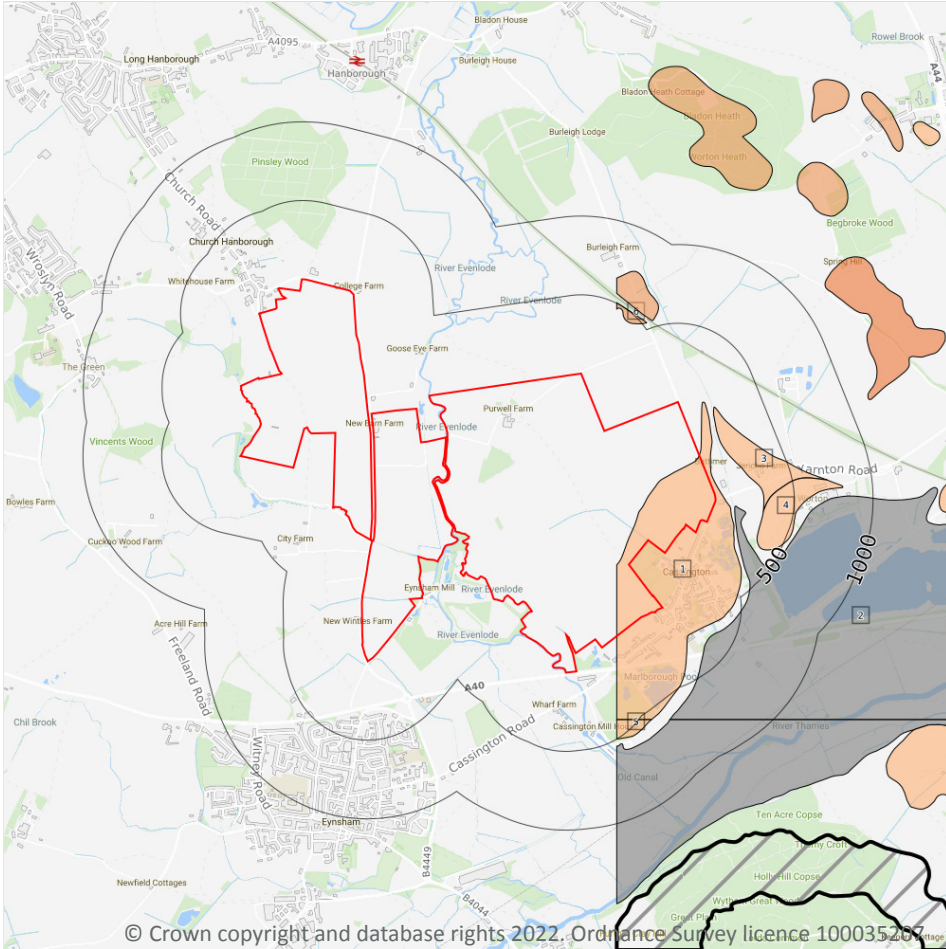


ID	Location	LEX Code	Description	Rock description
5	167m SE	WGR-VOID	Worked Ground (Undivided)	Void
6	202m SE	WGR-VOID	Worked Ground (Undivided)	Void
7	242m SE	WGR-VOID	Worked Ground (Undivided)	Void
8	330m SE	WGR-VOID	Worked Ground (Undivided)	Void
9	389m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
10	399m SE	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

6

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 135**

ID	Location	LEX Code	Description	Rock description
1	On site	SURA-XSV	Summertown-radley Sand And Gravel Member - Sand And Gravel	Sand And Gravel
2	129m E	ALV-CZ	Alluvium - Silty Clay	Clay, Silty
3	156m E	SURAL-XSV	Summertown-radley Sand And Gravel Member, Lower Facet - Sand And Gravel	Sand And Gravel

ID	Location	LEX Code	Description	Rock description
4	311m E	SURAU-XSV	Summertown-radley Sand And Gravel Member, Upper Facet - Sand And Gravel	Sand And Gravel
5	399m SE	SURA-XSV	Summertown-radley Sand And Gravel Member - Sand And Gravel	Sand And Gravel
6	442m NE	WV-XSV	Wolvercote Sand And Gravel Member - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

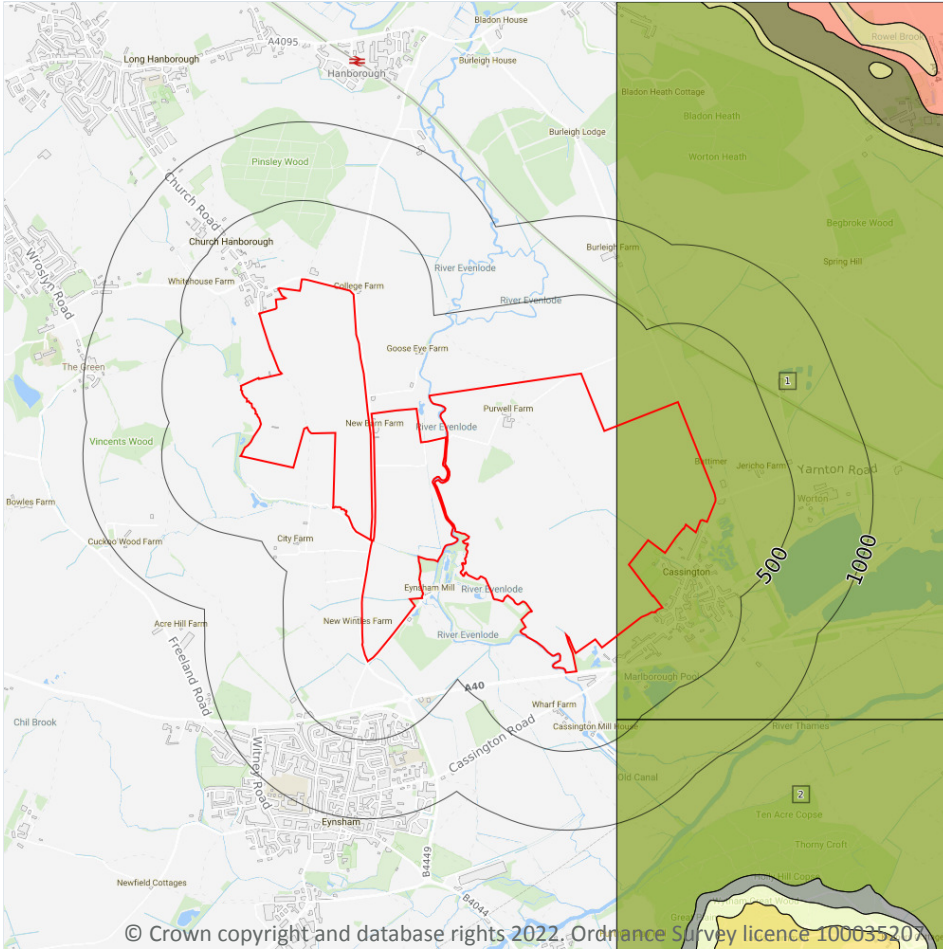
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Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

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

2

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 137**

ID	Location	LEX Code	Description	Rock age
1	On site	OXWW-MDST	Oxford Clay Formation And West Walton Formation (undifferentiated) - Mudstone	Oxfordian Age - Callovian Age
2	399m SE	OXWW-MDST	Oxford Clay Formation And West Walton Formation (undifferentiated) - Mudstone	Oxfordian Age - Callovian Age

This data is sourced from the British Geological Survey.



14.6 Bedrock faults and other linear features (10k)

Records within 500m

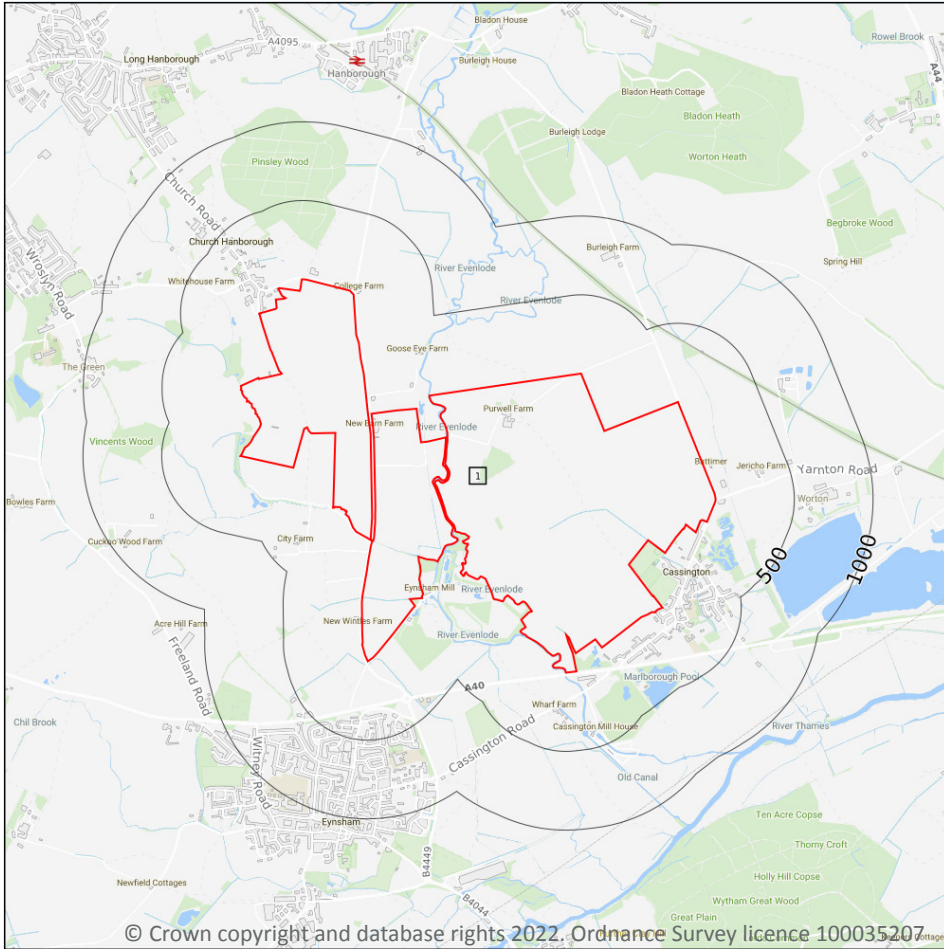
0

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.

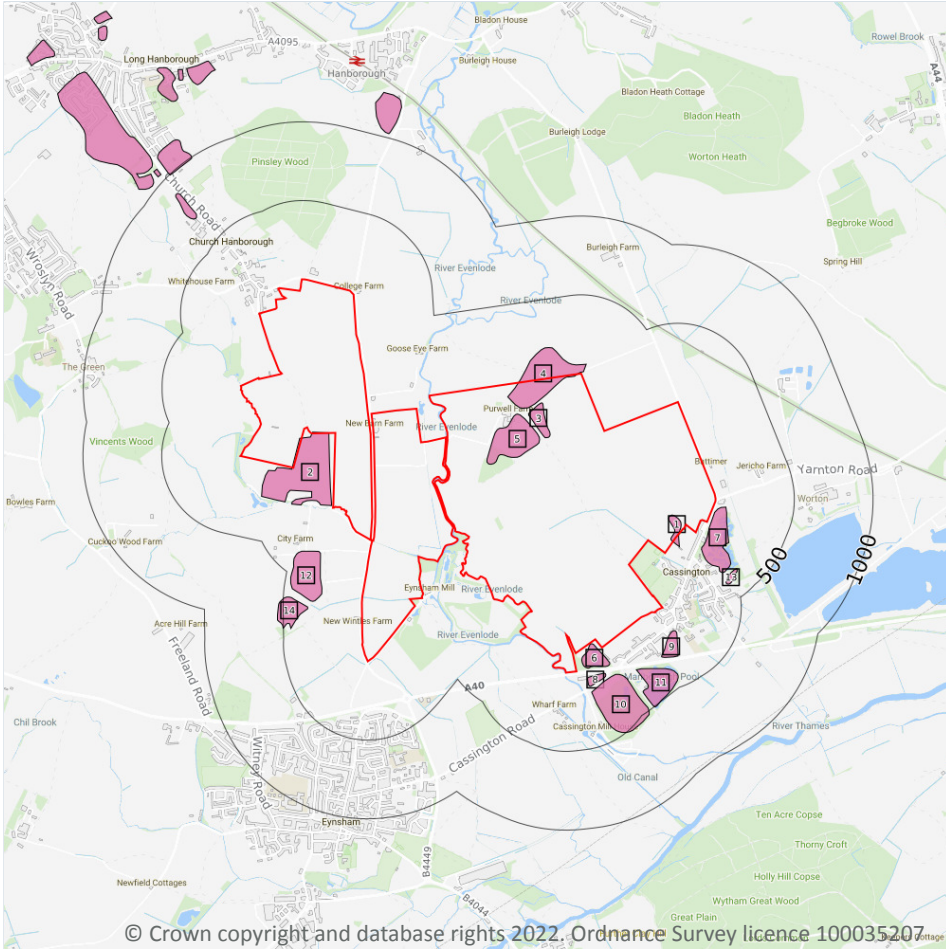
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 139**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW236_witney_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

14

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 140**

ID	Location	LEX Code	Description	Rock description
1	On site	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
2	On site	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
3	On site	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
4	On site	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID



ID	Location	LEX Code	Description	Rock description
5	On site	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
6	8m SE	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
7	22m E	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
8	82m SE	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
9	162m SE	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
10	163m SE	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
11	246m SE	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
12	258m W	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
13	340m SE	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
14	344m 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

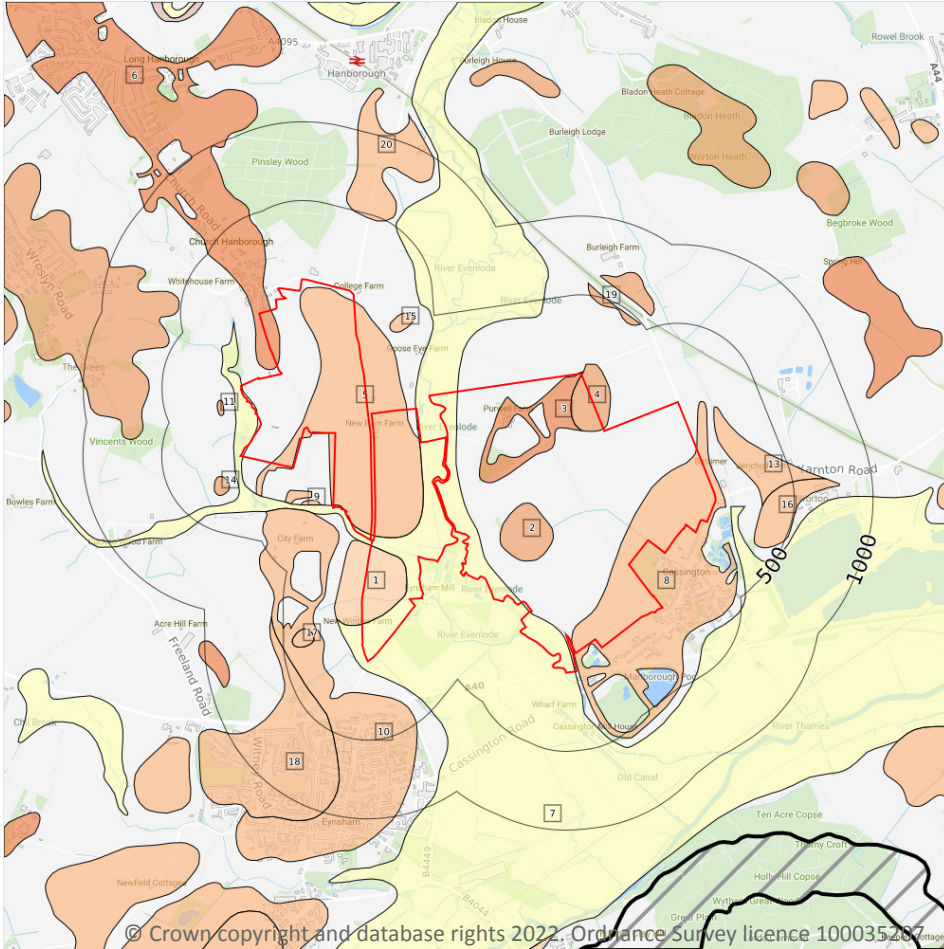
0

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

20

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 142**

ID	Location	LEX Code	Description	Rock description
1	On site	NO-XSV	NORTHMOOR SAND AND GRAVEL MEMBER	SAND AND GRAVEL
2	On site	WV-XSV	WOLVERCOTE SAND AND GRAVEL MEMBER	SAND AND GRAVEL
3	On site	HAN-XSV	HANBOROUGH GRAVEL MEMBER	SAND AND GRAVEL
4	On site	NDR-XSV	NORTHERN DRIFT FORMATION	SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
5	On site	SURA-XSV	SUMMERTOWN-RADLEY SAND AND GRAVEL MEMBER	SAND AND GRAVEL
6	On site	HAN-XSV	HANBOROUGH GRAVEL MEMBER	SAND AND GRAVEL
7	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
8	On site	SURA-XSV	SUMMERTOWN-RADLEY SAND AND GRAVEL MEMBER	SAND AND GRAVEL
9	80m W	SURA-XSV	SUMMERTOWN-RADLEY SAND AND GRAVEL MEMBER	SAND AND GRAVEL
10	95m SW	SURAL-XSV	SUMMERTOWN-RADLEY SAND AND GRAVEL MEMBER, LOWER FACET	SAND AND GRAVEL
11	137m SW	WV-XSV	WOLVERCOTE SAND AND GRAVEL MEMBER	SAND AND GRAVEL
12	139m W	SURA-XSV	SUMMERTOWN-RADLEY SAND AND GRAVEL MEMBER	SAND AND GRAVEL
13	145m E	SURAL-XSV	SUMMERTOWN-RADLEY SAND AND GRAVEL MEMBER, LOWER FACET	SAND AND GRAVEL
14	171m SW	WV-XSV	WOLVERCOTE SAND AND GRAVEL MEMBER	SAND AND GRAVEL
15	216m E	SURA-XSV	SUMMERTOWN-RADLEY SAND AND GRAVEL MEMBER	SAND AND GRAVEL
16	292m E	SURAU-XSV	SUMMERTOWN-RADLEY SAND AND GRAVEL MEMBER, UPPER FACET	SAND AND GRAVEL
17	308m W	SURAU-XSV	SUMMERTOWN-RADLEY SAND AND GRAVEL MEMBER, UPPER FACET	SAND AND GRAVEL
18	408m SW	SURAU-XSV	SUMMERTOWN-RADLEY SAND AND GRAVEL MEMBER, UPPER FACET	SAND AND GRAVEL
19	434m NE	WV-XSV	WOLVERCOTE SAND AND GRAVEL MEMBER	SAND AND GRAVEL
20	474m N	SURAU-XSV	SUMMERTOWN-RADLEY SAND AND GRAVEL MEMBER, UPPER FACET	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

9

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
On site	Intergranular	Very High	High



Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Very High	High
On site	Intergranular	Very High	High
On site	Intergranular	Very High	High
On site	Intergranular	Very High	High
On site	Intergranular	Very High	High
On site	Intergranular	High	Very Low
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)

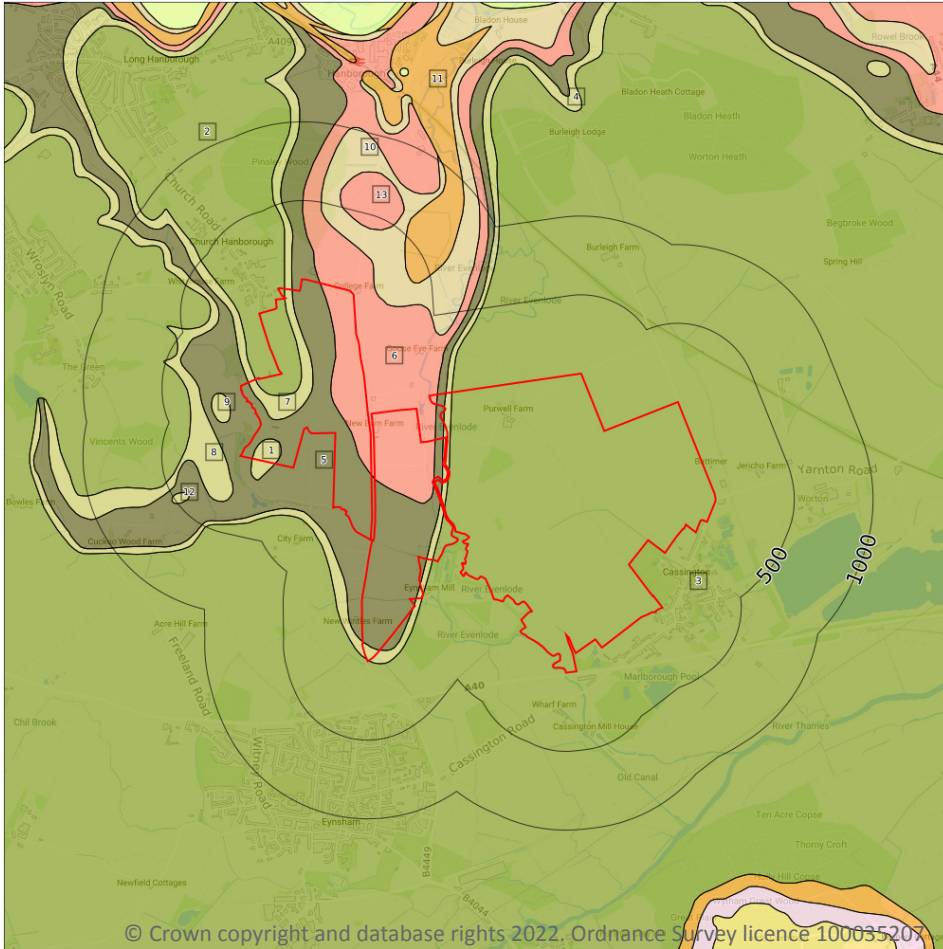
Records within 50m **0**

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

13

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 145**

ID	Location	LEX Code	Description	Rock age
1	On site	KLS-SDSL	KELLAWAYS SAND MEMBER - SANDSTONE AND SILTSTONE, INTERBEDDED	CALLOVIAN
2	On site	PET-MDST	PETERBOROUGH MEMBER - MUDSTONE	CALLOVIAN
3	On site	OXWW-MDST	OXFORD CLAY FORMATION AND WEST WALTON FORMATION (UNDIFFERENTIATED) - MUDSTONE	CALLOVIAN

ID	Location	LEX Code	Description	Rock age
4	On site	KLS-SDSL	KELLAWAYS SAND MEMBER - SANDSTONE AND SILTSTONE, INTERBEDDED	CALLOVIAN
5	On site	KLC-MDST	KELLAWAYS CLAY MEMBER - MUDSTONE	CALLOVIAN
6	On site	CB-LMST	CORNBRASH FORMATION - LIMESTONE	BATHONIAN
7	On site	KLS-SDSL	KELLAWAYS SAND MEMBER - SANDSTONE AND SILTSTONE, INTERBEDDED	CALLOVIAN
8	95m W	KLS-SDSL	KELLAWAYS SAND MEMBER - SANDSTONE AND SILTSTONE, INTERBEDDED	CALLOVIAN
9	102m SW	KLS-SDSL	KELLAWAYS SAND MEMBER - SANDSTONE AND SILTSTONE, INTERBEDDED	CALLOVIAN
10	141m E	FMB-MDST	FOREST MARBLE FORMATION - MUDSTONE	BATHONIAN
11	368m E	FMB-LMST	FOREST MARBLE FORMATION - LIMESTONE	BATHONIAN
12	411m SW	KLS-SDSL	KELLAWAYS SAND MEMBER - SANDSTONE AND SILTSTONE, INTERBEDDED	CALLOVIAN
13	413m N	CB-LMST	CORNBRASH FORMATION - LIMESTONE	BATHONIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	8
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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	Moderate
On site	Mixed	Moderate	Moderate
On site	Fracture	Low	Very Low
On site	Fracture	Low	Very Low
On site	Fracture	Very High	High
On site	Mixed	Moderate	Moderate
On site	Fracture	Low	Very Low
On site	Fracture	Low	Very Low

This data is sourced from the British Geological Survey.



15.10 Bedrock faults and other linear features (50k)

Records within 500m

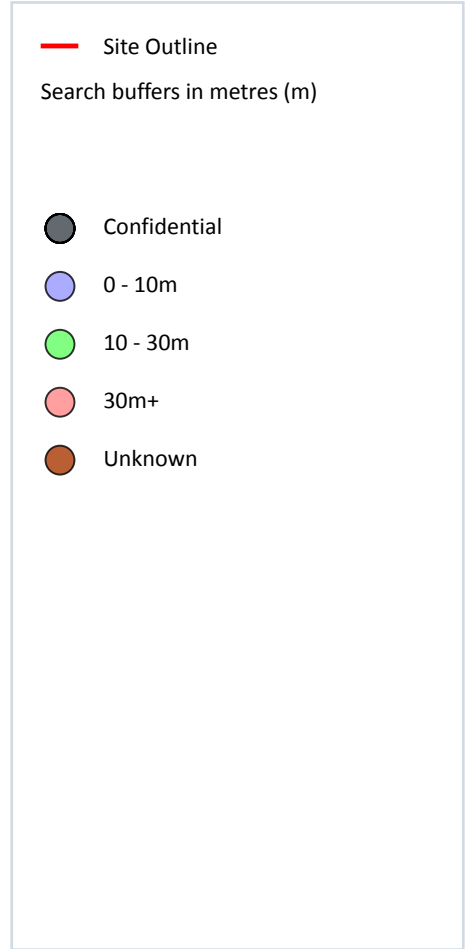
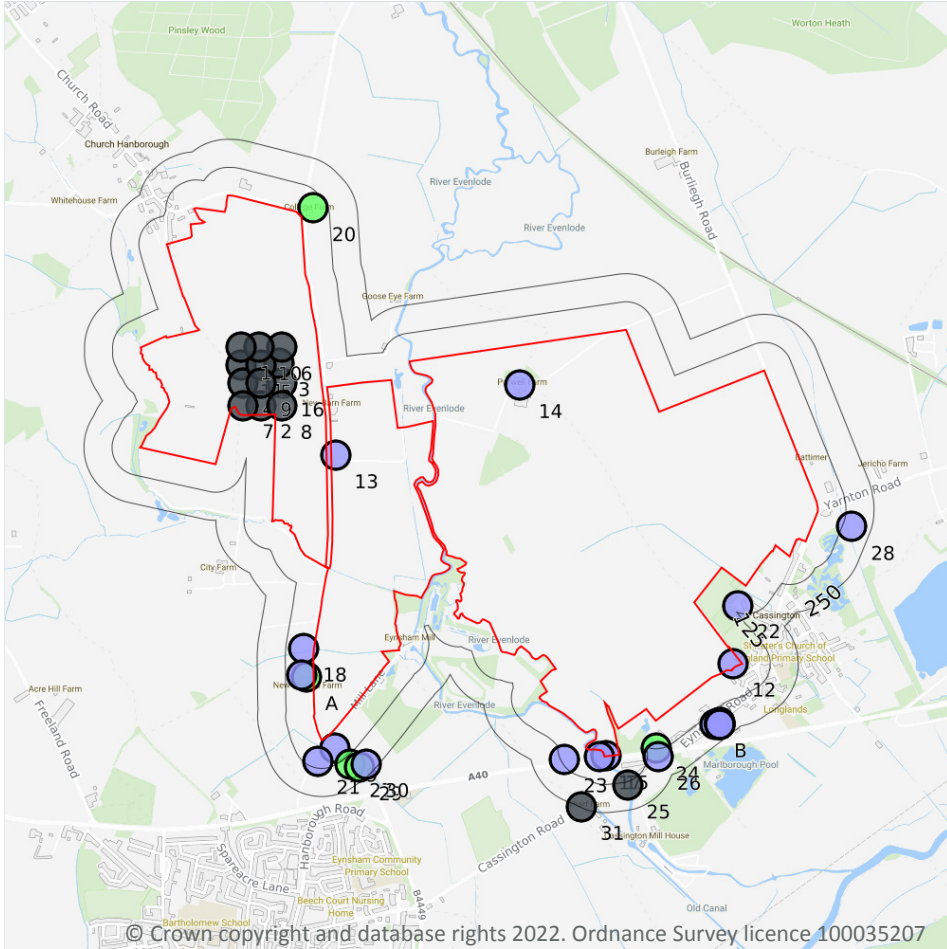
0

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

40

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

Features are displayed on the Boreholes map on **page 148**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	443060 212120	CHURCH HANBOROUGH E8/12	-	Y	N/A
2	On site	443150 211860	CHURCH HANBOROUGH E8/2	-	Y	N/A
3	On site	443230 212050	CHURCH HANBOROUGH E8/9	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	On site	443070 211960	CHURCH HANBOROUGH E8/6	-	Y	N/A
5	On site	443150 212040	CHURCH HANBOROUGH E8/8	-	Y	N/A
6	On site	443240 212120	CHURCH HANBOROUGH E8/10	-	Y	N/A
7	On site	443070 211860	CHURCH HANBOROUGH E8/1	-	Y	N/A
8	On site	443240 211860	CHURCH HANBOROUGH E8/3	-	Y	N/A
9	On site	443150 211960	CHURCH HANBOROUGH E8/5	-	Y	N/A
10	On site	443140 212120	CHURCH HANBOROUGH E8/11	-	Y	N/A
11	On site	443060 212040	CHURCH HANBOROUGH E8/7	-	Y	N/A
12	On site	445250 210710	CASSINGTON HOUSE CASSINGTON	7.1	N	330700
13	On site	443480 211640	NEW BARN CHURCH HANBOROUGH	2.3	N	330904
14	On site	444300 211950	PURWELL FARM	-2.0	N	330977
15	On site	444684 210300	A40 WITNEY - CASSINGTON DUALLING OXFORDSHIRE 22	7.0	N	19511380
16	On site	443240 211960	CHURCH HANBOROUGH E8/4	-	Y	N/A
17	23m W	444654 210297	A40 WITNEY - CASSINGTON DUALLING OXFORDSHIRE 21	10.0	N	19511379
A	33m W	443350 210650	NEW WINTLES FARM EYNHAM OXON	25.91	N	330913
18	44m W	443340 210780	BARA LAND	-2.0	N	330973
A	53m W	443330 210660	NEW WINTLES FARM	-2.0	N	330974
19	63m SE	443477 210334	A40 WITNEY - CASSINGTON DUALLING OXFORDSHIRE 14	8.0	N	19530557
20	65m NE	443380 212740	COLLEGE FARM HANBOROUGH	21.33	N	330909
21	95m S	443400 210277	A40 WITNEY - CASSINGTON DUALLING OXFORDSHIRE TPN	3.0	N	19511396
22	95m SW	445270 210970	CASSINGTON OXFORD	6.4	N	330716
23	108m SW	444500 210287	A40 WITNEY - CASSINGTON DUALLING OXFORDSHIRE 20	5.0	N	19511378
24	120m S	444910 210337	A40 WITNEY - CASSINGTON DUALLING OXFORDSHIRE 23	15.0	N	19511381
25	141m S	444780 210170	EG2	-	Y	N/A
26	160m S	444916 210298	A40 WITNEY - CASSINGTON DUALLING OXFORDSHIRE 24	10.0	N	19511382

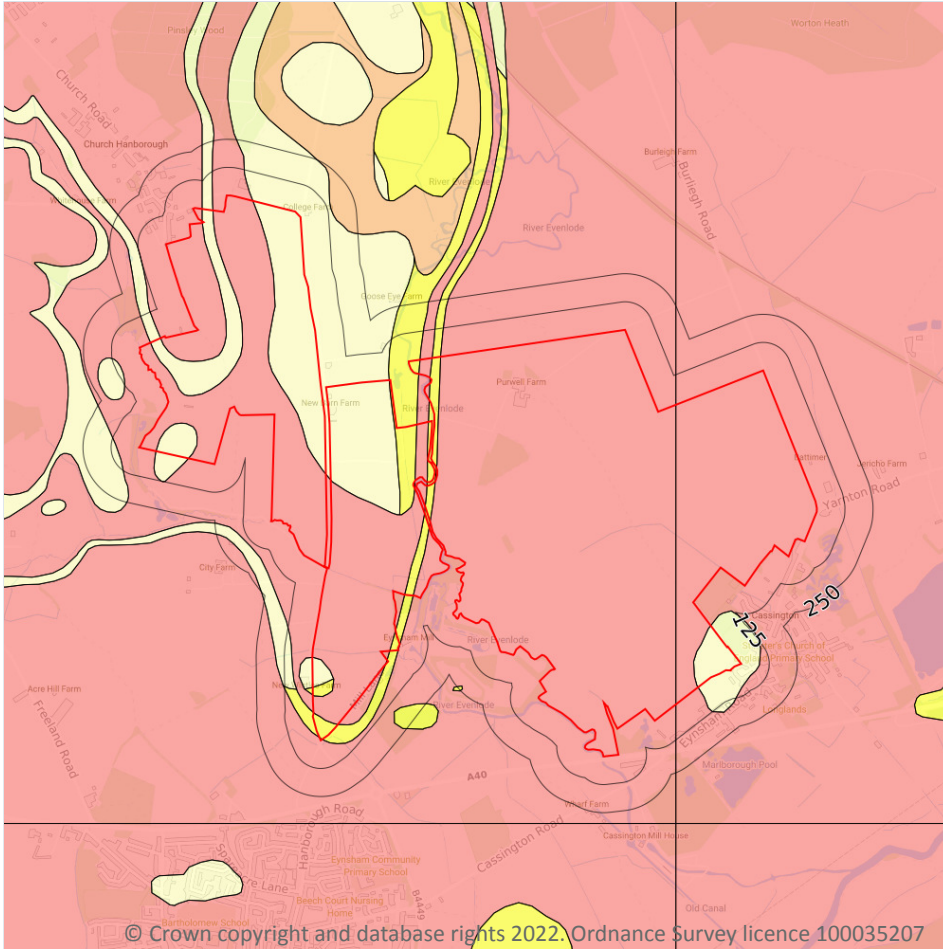


ID	Location	Grid reference	Name	Length	Confidential	Web link
27	161m SE	443546 210263	A40 WITNEY - CASSINGTON DUALLING OXFORDSHIRE 15	12.0	N	19511373
28	166m E	445779 211321	A40 WITNEY - CASSINGTON DUALLING OXFORDSHIRE 31	5.55	N	19511404
B	175m SE	445170 210440	53 EYNSHAM ROAD CASSINGTON OXFORDSHIRE 1	1.3	N	15948338
B	180m SE	445190 210450	51 EYNSHAM ROAD CASSINGTON TP 2	1.1	N	15952154
B	180m SE	445190 210450	51 EYNSHAM ROAD CASSINGTON TP 1	1.15	N	15952153
B	187m SE	445190 210440	51 EYNSHAM ROAD CASSINGTON TP 3	1.0	N	15952155
B	187m SE	445190 210440	51 EYNSHAM ROAD CASSINGTON 1B	3.22	N	15952151
B	187m SE	445190 210440	51 EYNSHAM ROAD CASSINGTON 1A	3.2	N	15952150
B	187m SE	445190 210440	51 EYNSHAM ROAD CASSINGTON 1C	4.12	N	15952152
29	197m SE	443588 210251	A40 WITNEY - CASSINGTON DUALLING OXFORDSHIRE 16	11.5	N	19511374
30	208m SE	443617 210265	A40 WITNEY - CASSINGTON DUALLING OXFORDSHIRE 17	7.0	N	19511375
31	246m SW	444575 210075	EOO/98	-	Y	N/A

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

3

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).

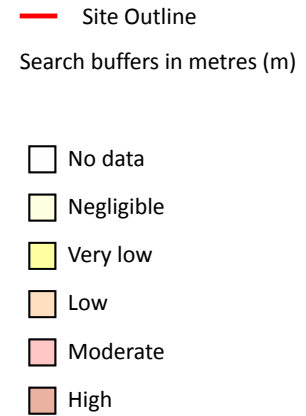
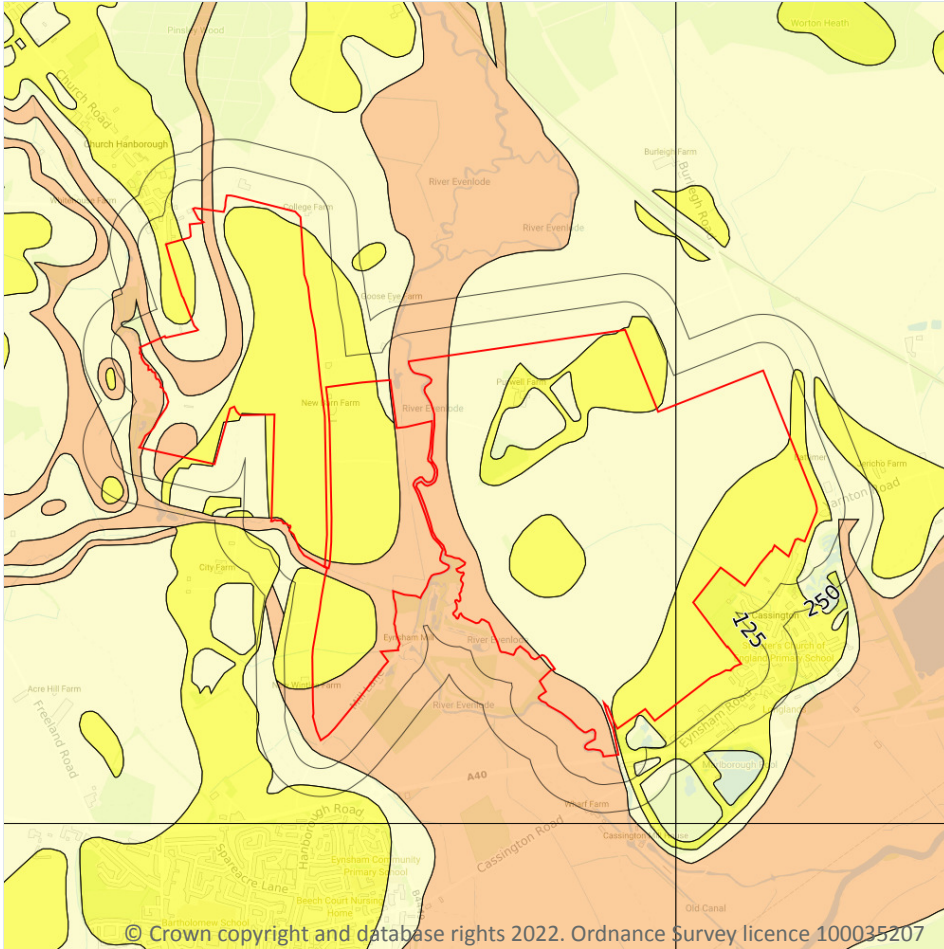
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 151**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
On site	Moderate	Ground conditions predominantly high plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

5

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 153**

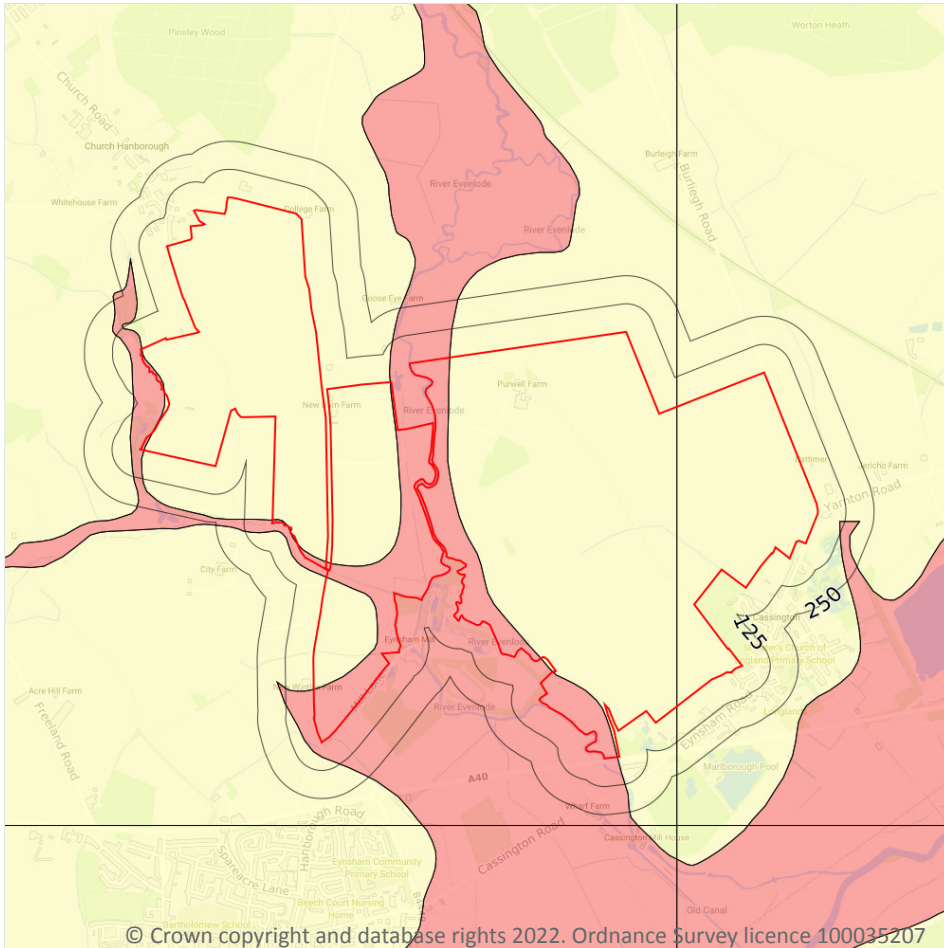
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
8m SE	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.
29m SW	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

2

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

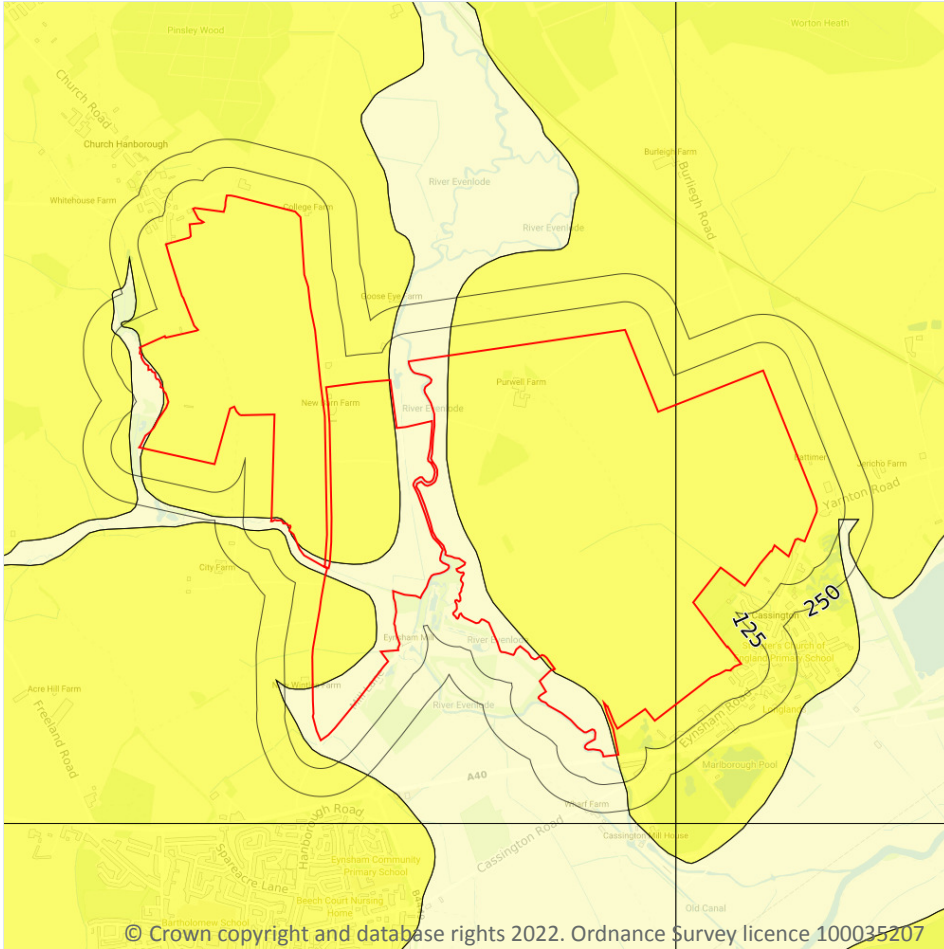
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 155**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

2

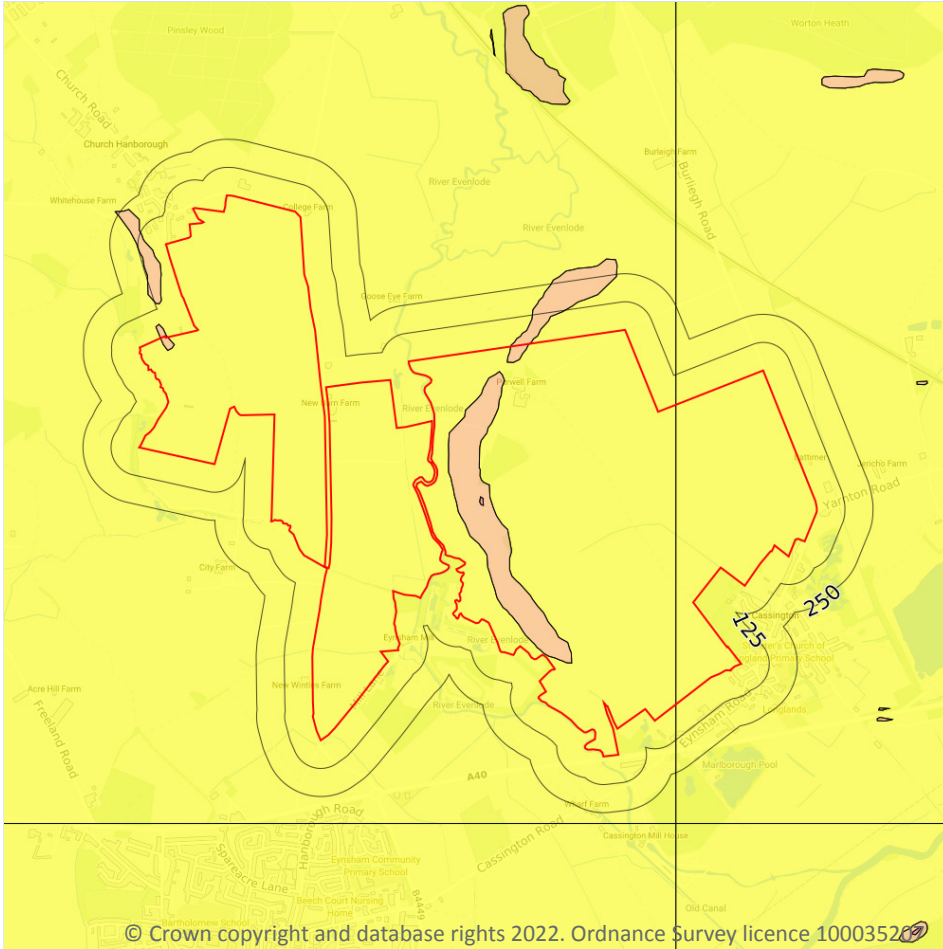
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 157**

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

4

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 158**

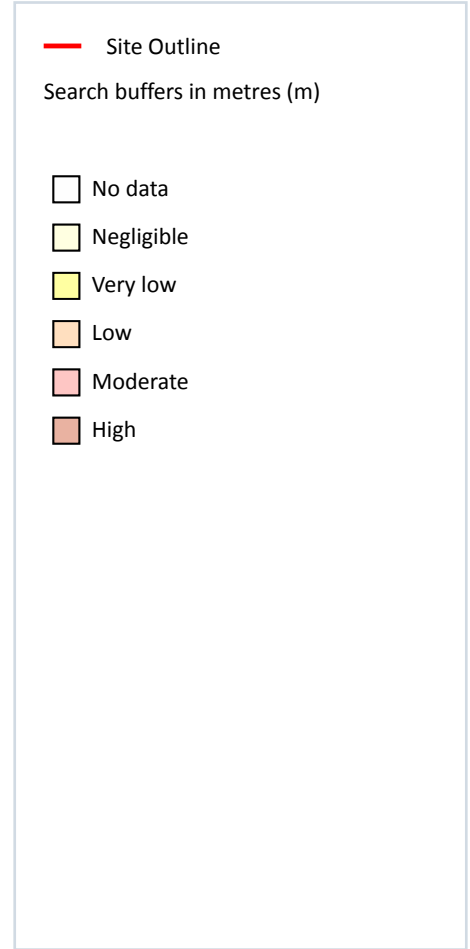
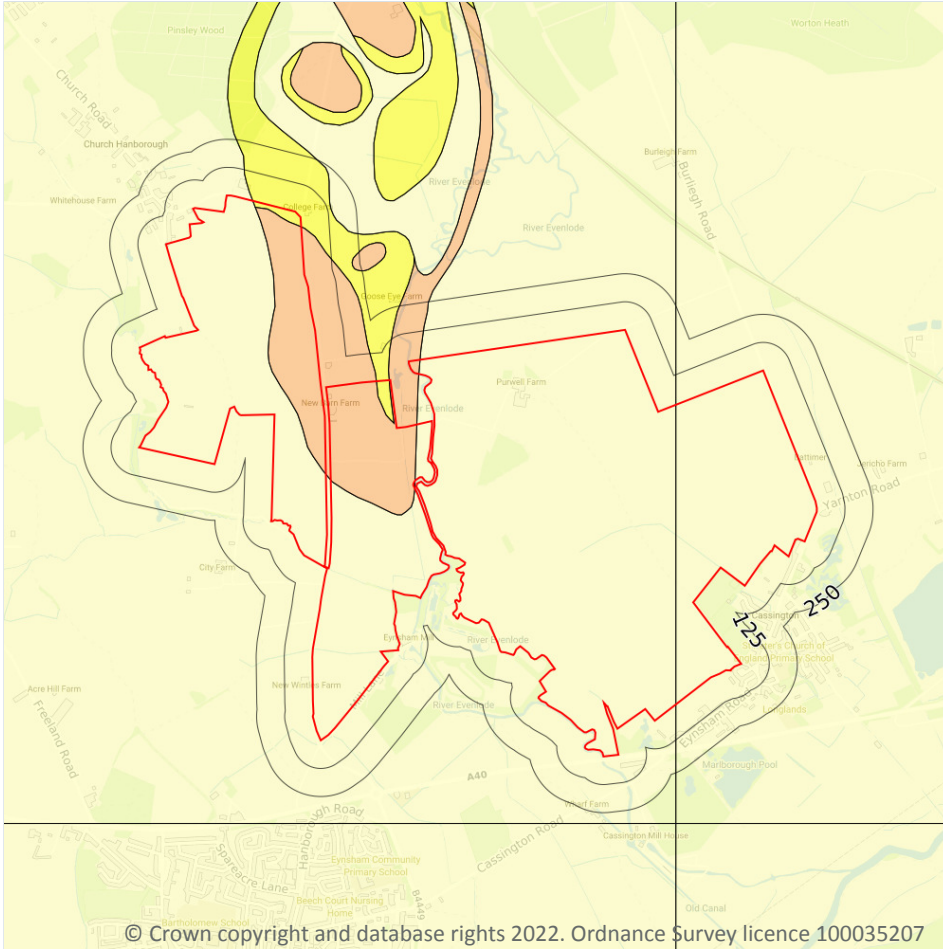
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
On site	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
49m W	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

3

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 160**

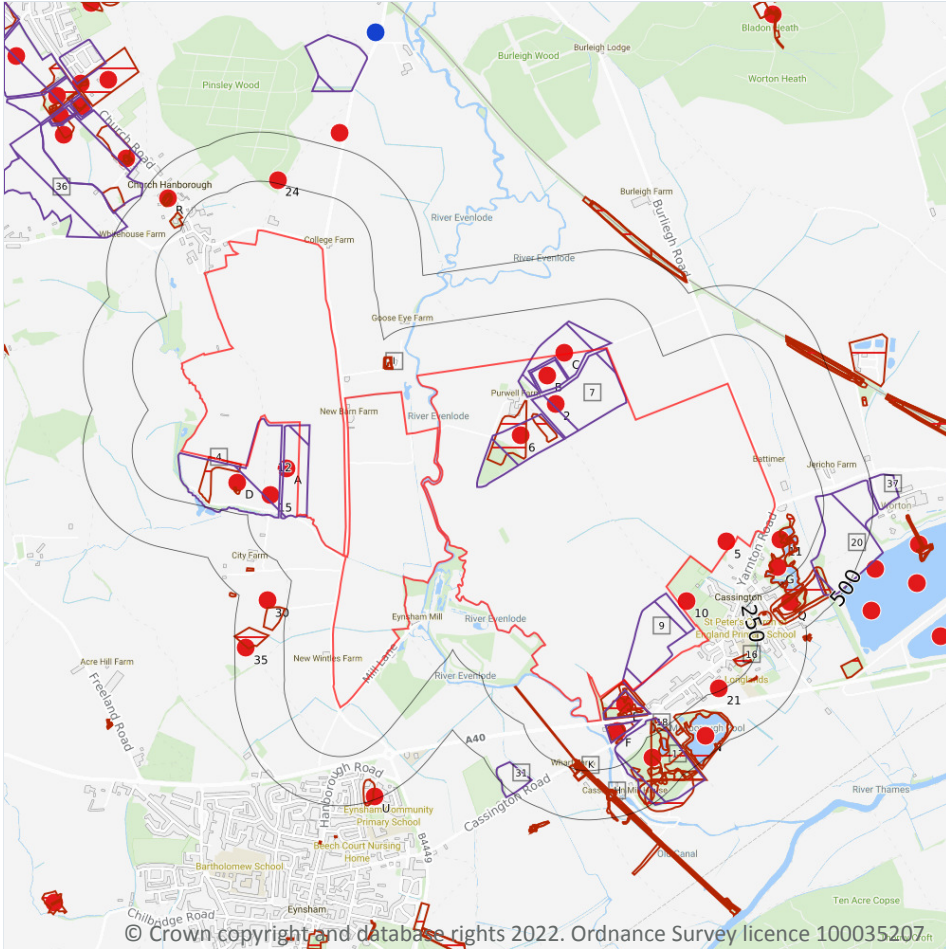
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

Location	Hazard rating	Details
On site	Very low	Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.
On site	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



18.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

23

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 162**

ID	Location	Details	Description
2	On site	Name: Purwell Farm Gravel Pit Address: CASSINGTON, Oxfordshire 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
5	On site	Name: The Elms Gravel Pit Address: CASSINGTON, Oxfordshire 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
6	On site	Name: Purwell Farm Gravel Pit Address: CASSINGTON, Oxfordshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
B	On site	Name: Purwell Farm Gravel Pit Address: CASSINGTON, Oxfordshire 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
C	8m N	Name: Purwell Farm Gravel Pit Address: CASSINGTON, Oxfordshire 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
10	38m NE	Name: The Elms Gravel Pit Address: CASSINGTON, Oxfordshire 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
A	61m W	Name: City Farm Gravel Pit Address: EYNSHAM, Oxfordshire 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	84m SW	Name: Eynsham Road Gravel Pit Address: CASSINGTON, Oxfordshire 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
11	89m E	Name: Acrey Quarry Address: CASSINGTON, Oxfordshire 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
D	95m S	Name: City Farm Gravel Pit Address: EYNSHAM, Oxfordshire 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
12	96m E	Name: City Farm Gravel Pit Address: EYNSHAM, Oxfordshire 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
F	100m SE	Name: Eynsham Road Gravel Pit Address: CASSINGTON, Oxfordshire 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
15	139m W	Name: City Farm Gravel Pit Address: EYNHAM, Oxfordshire 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
G	177m SE	Name: Acrey Quarry Address: CASSINGTON, Oxfordshire 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
21	237m SE	Name: Cassington Gravel Pit Address: CASSINGTON, Oxfordshire 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
24	267m N	Name: Pinstey Wood Quarry Address: Church Handborough, Long Hanborough, WOODSTOCK, Oxfordshire Commodity: Limestone 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
J	326m SE	Name: Eynsham Road Gravel Pit Address: CASSINGTON, Oxfordshire 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
Q	348m SE	Name: Acrey Quarry Address: CASSINGTON, Oxfordshire 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
30	354m W	Name: City Farm Gravel Pit Address: EYNHAM, Oxfordshire 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
R	379m NW	Name: Church Hanborough Gravel Pit Address: Church Handborough, Long Hanborough, WOODSTOCK, Oxfordshire 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
N	409m SE	Name: Eynsham Road Gravel Pit Address: CASSINGTON, Oxfordshire 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
35	442m W	Name: City Farm Gravel Pit Address: EYNHAM, Oxfordshire 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
U	482m S	Name: Eynsham Road Gravel Pit Address: CASSINGTON, Oxfordshire 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

This data is sourced from the British Geological Survey.



18.3 Surface ground workings

Records within 250m
37

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 162**

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Unspecified Pit	1950	1:10560
3	On site	Disused Sand Pit	1950	1:10560
4	On site	Unspecified Disused Pit	1978	1:10000
E	0m SW	Unspecified Disused Pit	1978	1:10000
E	2m SE	Unspecified Pit	1950	1:10560
E	21m SW	Pond	1978	1:10000
F	53m SE	Unspecified Pit	1950	1:10560
E	69m S	Ponds	1978	1:10000
G	71m E	Unspecified Disused Pit	1979	1:10000
G	71m E	Unspecified Disused Pit	1992	1:10000
F	101m E	Pond	1950	1:10560
H	113m SW	Canal	1876	1:10560
I	120m N	Unspecified Pit	1876	1:10560
D	121m S	Pond	1978	1:10000
I	124m N	Unspecified Pit	1922	1:10560
I	124m N	Unspecified Pit	1914	1:10560
I	124m N	Unspecified Pit	1914	1:10560
I	127m N	Unspecified Pit	1950	1:10560
13	130m E	Unspecified Pit	1938	1:10560
14	136m SE	Sand Pit	1876	1:10560
16	162m SE	Grave Yard	1876	1:10560
17	177m SE	Disused Workings	1992	1:10000
18	192m SE	Unspecified Disused Pit	1979	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
K	203m S	Old Canal	1978	1:10000
19	204m S	Old Canal	1900	1:10560
K	210m S	Unspecified Wharf	1900	1:10560
L	214m S	Old Canal	1914	1:10560
L	216m S	Old Canal	1922	1:10560
K	217m S	Unspecified Wharf	1900	1:10560
K	221m S	Unspecified Wharf	1876	1:10560
K	223m S	Unspecified Wharf	1914	1:10560
K	223m S	Unspecified Wharf	1914	1:10560
K	224m S	Unspecified Wharf	1922	1:10560
K	226m S	Unspecified Wharf	1950	1:10560
M	232m SE	Pond	1968	1:10560
N	233m SE	Unspecified Pit	1968	1:10560
22	249m W	Grave Yard	1880	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

14

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 162**



ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
7	On site	Purwell Farm	Sand and gravel	Surface mineral working	Valid	1951
8	On site	Purwell Farm	Sand and gravel	Surface mineral working	Valid	Not available
9	On site	Eynsham Road	Sand and gravel	Surface mineral working	Refused	3/6/52
A	On site	City Farm	Sand and gravel	Surface mineral working	Refused	Not available
B	On site	Purwell Farm	Sand and gravel	Surface mineral working	Valid	1951
C	On site	Purwell Farm	Sand and gravel	Surface mineral working	Valid	1954
D	On site	City Farm	Sand and gravel	Surface mineral working	Valid	23/5/55
E	17m E	Eynsham Road	Sand and gravel	Surface mineral working	Valid	9/6/47
F	36m SE	Eynsham Road	Sand and gravel	Surface mineral working	Valid	9/6/47
J	151m SE	Eynsham Road	Sand and gravel	Surface mineral working	Valid	9/6/47
20	211m E	Manor Farm	Sand and gravel	Surface mineral working	Refused	26/7/56
31	388m SW	Eynsham	Sand and gravel	Surface mineral working	Application	Not available
36	460m NW	Downhill Farm	Sand and gravel	Surface mineral working	Valid	8/12/47
37	497m E	Manor Farm	Sand and gravel	Surface mineral working	Refused	27/8/56

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

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



and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site

0

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

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

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

18.11 Gypsum areas

Records on site

0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.



18.12 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.13 Clay mining

Records on site

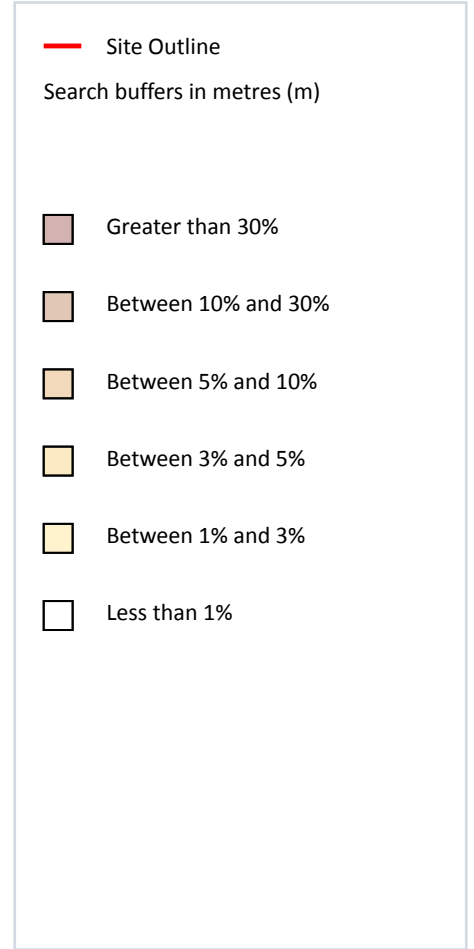
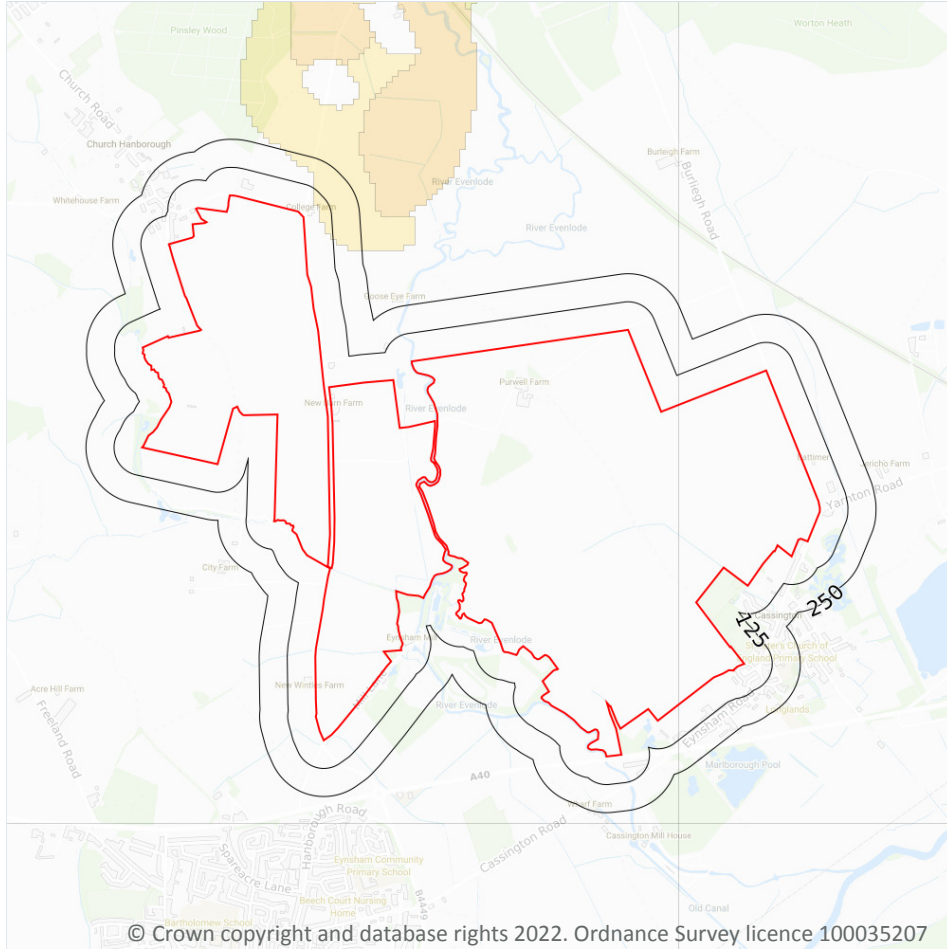
0

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

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



19 Radon



19.1 Radon

Records on site

1

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

Features are displayed on the Radon map on **page 172**

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

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

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

156

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
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On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
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On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
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On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
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On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
1m NW	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
4m SW	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
6m SW	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
8m SE	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
9m S	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
10m W	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
22m E	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
24m SE	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
24m SE	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
27m NW	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
27m NW	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
29m W	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
32m NW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
32m NW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
40m NW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
40m W	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
42m E	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
45m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
47m E	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg



This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

0

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

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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



This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see [REDACTED]

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