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GEO ENVIRONMENTAL



Barlestone Road, Newbold Verdon, Leicestershire
Phase I Geo-Environmental Desk Study
October 2024

Report Ref: 24832-GEO-0401 Rev C

Barlestone Road, Newbold Verdon, Leicestershire

Phase I Geo-Environmental Desk Study

October 2024

REPORT REF: 24832-GEO-0401 Rev C

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REGISTRATION OF AMENDMENTS

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April 2024	B	Updated parameter plan	Alexander Bennett BSc (Hons), MCIHT, MTPS Managing Director		
October 2024	C	Updated Indicative Masterplan and Parameter Plan	Daniel Webb BSc (Hons) FGS Geo-Environmental Engineer	David Torrance BSc (Hons) CGeol FGS Associate Director – Geo-Environmental	Alexander Bennett BSc (Hons), MCIHT, MTPS Managing Director

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1.0 INTRODUCTION

- 1.1 MEC Consulting Group Ltd (MEC), has been commissioned by David Wilson Homes East Midlands (hereafter referred to as 'the Client') to undertake a Phase I Geo-Environmental Desk Study to support a proposed development on Barlestone Road, Newbold Verdon, Leicestershire (hereafter referred to as 'the Site'). A site location plan is provided in **Appendix A**.

Development Proposals

- 1.2 Outline planning application (all matters reserved except vehicular access) for the erection of up to 240 residential dwellings (Use Class C3), retention of the existing accesses off Barlestone Road and the creation of new accesses off Barlestone Road, land safeguarded for a cemetery and a health centre (Use Classes E(e)), public open space and associated infrastructure.
- 1.3 An indicative masterplan and parameter plan is provided in **Appendix A**.

Objectives

- 1.4 This desk study has been completed according to the general principles of BS5930:2015 (+A1:2020) 'Code of Practice for Site Investigations,' BS10175:2011 (+A2:2017) 'Investigation of Potentially Contaminated Sites, Code of Practice and Environment Agency 'Land Contamination: Risk Management (LC:RM). The objectives of this investigation are:
- To establish historical activities, both on site and within the surrounding area, which may have impacted the site environment;
 - To characterise the environmental setting of the site, identify migration pathways and receptors vulnerable to contamination;
 - To assess the potential impacts to the site from legacy coal mining operations;
 - To develop a preliminary Conceptual Site Model (CSM);
 - To assess potential environmental liabilities associated with the site; and
 - To determine preliminary geotechnical consideration relating to the proposed development.
- 1.5 This report has been commissioned to support an outline planning application for the proposed development.

Sources of Information

- 1.6 The following sources of information have been referenced to inform the contents of this report:
- Site walkover observations (photographs provided in **Appendix B**);
 - Historical Ordnance Survey Mapping (**Appendix C**);
 - Environmental database report including but not restricted to the following data: environmental and hydrological, waste, hazardous substances register, geological, industrial, and sensitive land uses and pollution incidents (**Appendix D**);
 - Coal Authority Mining Report (**Appendix E**);

- British Geological Survey (BGS) online GeoIndex and borehole logs;
- Count Council/Local Authority Minerals Local Plan Ref: Hinckley and Bosworth
- Environment Agency website (www.environment-agency.gov.uk);
- MAGIC maps (www.magic.defra.gov.uk); and
- UXO Risk Mapping (<https://zeticauxo.com/>)
- LiDAR Mapping (<https://www.lidarfinder.com/>)

Limitations

- 1.7 MEC has completed this report for the benefit of the Client and any relevant statutory authority which may require reference in relation to approvals for the proposed development. Other third parties should not use or rely upon the contents of this report unless explicit written approval has been gained from MEC.
- 1.8 MEC cannot accept responsibility or liability for:
- a) The consequence of this documentation being used for any purpose or project other than that for which it was commissioned;
 - b) The issue of this document to any third party with whom approval for use has not been agreed.
- 1.9 This report should be read in its entirety, including all associated drawings and appendices. MEC cannot be held responsible for any misinterpretations arising from the use of extracts of this report that are taken out of context. The findings and opinions conveyed are based on information obtained from a variety of sources, as detailed in Section 1.5 above, which MEC believes are reliable. All reasonable care and skill have been applied in examining the information obtained, nevertheless, MEC cannot and does not guarantee the authenticity or reliability of the information relied upon from external sources.
- 1.10 Should additional information become available which may affect the opinions expressed in this report, MEC reserves the right to review this information and, if warranted, to modify the opinions presented in the report accordingly.
- 1.11 It should be noted that the risks identified in this report are perceived based on the available information at the time of writing. The actual risks can only be established and quantified following intrusive investigation of the site.

2.0 SITE SETTING AND DESCRIPTION

Site and Setting The following details are based on observations made at the time of the site walkover which was completed on 14th September, 2023. A site features plan is included in Appendix A and the photographic record is presented in Appendix B.	
Site Address	Barlestone Road, Newbold Verdon, Leicestershire, LE9 9NE
National Grid Coordinates	444791, 304283
Site Description	The site comprises an area of undeveloped open land located to the north of Newbold Verdon. The site predominantly comprises open fields laid to grass, which are used as paddocks for grazing horses (Photos 1 and 2). An access track off Barlestone Road runs from south to north across the centre of the site and connects to a farmyard to the north of the site. A second access track off Barlestone Road cuts across the north-west of the site (Photo 4) and connects to the farmyard and Newbold Verdon Equestrian Centre to the north of the site. Overhead electricity cables run parallel to this track (Photo 5). Topographically, the site is relatively level. Three mounds, likely to be man-made, and approximately 1-2m in height are evident across the site. Two of the mounds (Photo 6 and 7) and a pond (Photo 8) are located within an exercise area in the north-east, as detailed by the site features plan, with horse jumps observed (Photo 9). A sand surfaced manège (Photo 10), surrounded by overhead lighting is also present in the north-west. A derelict building, constructed of metal, concrete and potential asbestos sheet roofing was noted in the south (Photo 11). Wooden telegraph poles with associated electricity cables are present in the south (Photo 12), and run in an east to west direction. The eastern field is intersected by a public footpath which runs in a south-west to north-east direction (Photo 13). A public footpath, running in a north to south direction, is also present in the north-west. An above ground storage tank (Photo 14) is present adjacent to the northern boundary; however, it is considered likely that it is no longer in use due to the dense surrounding vegetation. A Livery Office and Staff Room (Photo 15), constructed of timber and metal, is also located adjacent to the northern boundary. Mature and semi-mature trees and hedgerows are located on-site and form the southern, eastern, western, and north-eastern boundaries. The surrounding area comprises undeveloped open land to the west, north and east with The Fields Farm and Newbold Verdon Equestrian Centre located to the north. Barlestone Road borders the site to the south with residential properties recorded beyond.

Historical Review The site history has been assessed by reviewing 1:2,500, 1:1,250, 1:10,560, and 1:10,000 scale historical Ordnance Survey maps included in Appendix C and more recent aerial photography. A summary of the salient information relating to the history of the site and surroundings is provided below.	
On-site Historical Summary	The earliest available mapping reviewed dated from 1885 indicates that the site comprised relatively flat-lying undeveloped open land, with the existing central access track separating the eastern and western areas. The current footpaths cutting across the western and eastern fields were also recorded at this time. The access track cutting across the north-west of the site was recorded as a footpath by mapping from the early 1900's. The site thereafter remained unchanged until 1963, by which time, the building observed in the south had been constructed. Aerial photography from 1999, indicates that the site comprised agricultural land and that the existing telegraph poles had been established by this time. By 2006, the manège and access track in the north-west had been established and, in April 2015 and 2016, vehicles, a tent and other mechanical items were recorded in the north-western field, presumably an annual visiting fairground. The equestrian jump/exercise area had been established in the north-east by 2015 and the mounds and pond added by 2018.
Off-site Historical Summary	The earliest available mapping reviewed dated 1885 indicates that the surrounding area comprised undeveloped open land with farm buildings (later identified as 'The Fields') adjacent to the northern boundary. The George and Dragon Inn was recorded 10m south-west and residential properties with associated pumps were mapped 10m west, 50m south and 160m south-east. The village of Newbold Verdon was recorded approximately 400m to the south-west. A watercourse with a west to east flow direction was recorded 170m north and seven ponds were mapped within 250m of the site boundaries. By 1903, an additional building with an associated pump had been constructed 245m to the south-west. Mapping from 1915 indicates that residential developments had been constructed 90m south and allotment gardens were established adjacent to the northern boundary. By this time, an additional five ponds were recorded 190m to the north-east, north, and north-west. By 1930, allotment gardens were recorded adjacent to the eastern boundary and a residential property had been constructed adjacent to the south-eastern corner of the site.

Further residential development of Newbold Verdon had occurred between 1930 and 1958 with the construction of properties to the south-east, south-west and south. A pond 230m south-west was no longer recorded and had potentially been infilled, likely because of the construction works in this area. Ponds previously recorded 140m south-east and 190m north and the allotment gardens to the north and east were also no longer recorded. By this time, electricity pylons with associated cables which ran in an east to west direction were recorded 250m north.

By 1963, 'The Fields' 50m to the north had expanded with the construction of additional barn-like structures. At this time, a sawmill had been established 250m to the north-west.

A pond 130m south was no longer recorded and may have been infilled by 1972, likely as a result of further residential development in this area. By this time, a garage had been established 250m to the south-east, an electricity sub-station was recorded 180m south and a rubber component factory had been established 125m to the south.

Aerial photography from 2011 indicates that the Livery Office and Staff Room, associated with Newbold Verdon Equestrian Centre, had been constructed to the north. By 2015, residential properties had been constructed 100m to the west. More recent aerial photography from 2021 indicates a circular equestrian exercise feature and the aforementioned tank had been established adjacent to the northern boundary. Between 2021 and 2023, further residential properties were under construction, 40m to the west.

3.0 GEOLOGICAL, GEO-ENVIRONMENTAL AND MINING SETTING

Geo-environmental Setting

The geological, geo-environmental and mining setting of the site described in the following table is summarised based on information derived from various database and on-line information sources.

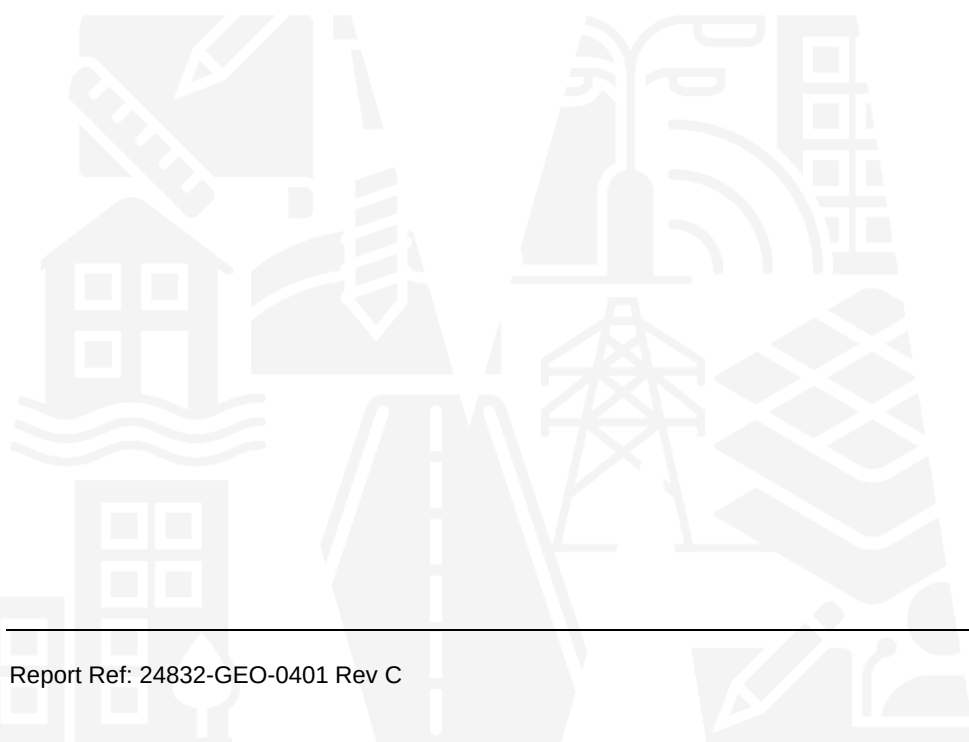
Geology	British Geological Survey (BGS) mapping indicates that the site is underlain by superficial Glaciofluvial deposits, comprising sand and gravel, which in turn are underlain by bedrock strata of the Edwalton Member comprising mudstone. Soil infiltration rate testing was completed by MEC in November 2023. The Glaciofluvial deposits were recorded within the nine trial pits advanced and predominantly comprised brown and orangish brown, clayey, silty, gravelly sand with a low cobble content, although brown, sandy silty clay was recorded in SA05. The gravel was recorded to comprise subangular fine to coarse quartzite, flint and sandstone and the cobbles were of sandstone.
Natural Ground Subsidence Risk	The natural ground subsidence risk at the site is generally negligible to low.
Hydrogeology	The Environment Agency (EA) classifies the superficial Glaciofluvial deposits as a Secondary A aquifer and the Edwalton Member as a Secondary B aquifer. The site is not located in a groundwater Source Protection Zone (SPZ) and groundwater abstractions are not recorded within 500m. The site is generally recorded to be at a low risk of groundwater flooding.
Hydrology	The nearest surface water feature is the watercourse located 150m to the north. Active surface water abstractions are not recorded within 500m. The site is not located within an area considered to be at risk of surface water flooding and is located within Flood Zone 1.
Mining and Mineral Extraction	The site is located within a coal mining reporting area as defined by the Coal Authority and a Consultants Coal Mining Report has been commissioned and included in Appendix E. The report indicates that underground workings are present beneath the site at depths of 122m and 123m associated with the Yard and Lower Main seams respectively. These seams were last worked in the late 1960's and any associated subsidence will by now be complete. Given the depth to these seams and the presence of competent Triassic strata above the Coal Measures strata, it is considered that they are at a sufficient depth such that surface stability will not be impacted. Mine entries are not recorded within the site area or within 100m.

	Remediated sites and site investigations have not been recorded within 50m and mine gas has not been encountered within 500m of the enquiry boundary. Future underground mining activity is considered unlikely. Mineral extraction is not recorded directly beneath the site or within 250m.
Mineral Safeguarding	The site is located within a Mineral Safeguarding Area as identified within the Leicestershire Minerals and Waste Local Plan. This relates to sand and gravel deposits within the Glaciofluvial strata. A Minerals Assessment has been prepared by MEC (report ref. 24832-GEO-0402) and will be provided under a separate cover.
Radon	The site is within an area where less than 1% of properties are estimated to be at or above the Radon Action Level. Radon protection measures will therefore not be required for the proposed development.

4.0 REGULATORY INFORMATION

Regulatory Information	
A summary of pertinent information from the environmental data report relating to permits, consents, authorisations, and landfilling is provided below.	
Current and Historical Industrial Uses	Four current industrial land uses are referenced within 250m, relating to a water pumping station 65m west, an electricity sub-station 188m south-west and solar panels 250m south-east. An electronic equipment company is recorded 68m to the south-west at a residential property and it is therefore likely that this is a registered business address rather than an active industrial site. The environmental report indicates that a tank is located 90m north-west; however, this appears to relate to a former silage tank which has since been demolished. One historical industrial land use is recorded within 250m, relating to the Saw Mill 243m north-west.
Historical Tanks	Historical tanks are not recorded within 250m of the site.
Fuel Stations and Historical Garages	A petrol station was located 250m to the south-east; however, aerial imagery from 2011 indicates that it has since been redeveloped for residential properties.
Part 2A EPA 1990	Sites determined as Contaminated Land under section 78R of the Environmental Protection Act are not recorded within 250m.
National Grid	National Grid high-pressure gas transmission pipelines or high-voltage underground electricity transmission cables are not recorded within 250m.
Industrial Licenses and Authorisations	The following licenses or authorisations are not recorded within 250m: • COMAH, NIHHS and dangerous substance; • Regulated explosive sites; • Hazardous substance storage and usage; • Historical IPC authorisations; • Licensed industrial activities (Part A (1)); • Licensed pollutant release (Part A(2)/B); • Radioactive substation authorisations; • Red list discharge consents; • Pollutant release to public sewer; • List 1 and 2 dangerous substances; and • Pollution inventory substances, waste transfers and radioactive waste.
Licensed Discharges to Controlled Waters	A licensed discharge to controlled waters is recorded 99m to the north-west relating to discharge of treated sewage effluent into the underlying strata.

Pollution Incidents	Pollution incidents have not been recorded within 250m.
Landfill and Waste	Waste management facilities are not recorded within 250m. Three historical landfill sites are recorded within 250m. The nearest record relates to Newbold Verdon Sawmill Landfill Site, 175m to the north-west, licensed to receive inert waste. Newbold Verdon Landfill Site was located 189m to the south, although the type of waste accepted is unknown. Wrask Farm was located 197m to the south-east and was licensed to receive inert and industrial waste. Thirty-two waste exemptions are recorded within 250m. Eighteen records relate to the burning, deposition, treatment, recovery, spreading and incorporation of waste and use of waste in construction at Fields Farm to the north of the site. Five records relate to the sorting and de-naturing of controlled drugs for disposal, 23m to the west, likely at the Newbold Verdon Medical Practice. Five records relate to the burning, treatment, deposit, spreading and incorporation of waste at Red House Farm, 230m to the south-east. The remaining records relate to the storage of sludge 122m and 178m south-east and use of waste in construction 171m to the west.
Unexploded Ordnance	The Zetica interactive mapping site indicates that the subject site lies within an area at low risk of UXO encounter.



5.0 PRELIMINARY GEOTECHNICAL ASSESSMENT

5.1 The information sources noted in Section 1.0 have been reviewed to provide a summary of potential geotechnical considerations for the proposed development presented in the following table. The comments and recommendations provided are based on the qualitative findings of this Geo-environmental Desk Study and may not be representative of actual engineering properties of on-site soils which can only be confirmed by intrusive investigation

Made Ground	Based on the observations from the site walkover and the recorded history, it is unlikely that significant quantities of Made Ground will be encountered near surface across the site. Made Ground may be encountered within the mounds observed in the west and east of the site and surrounding the derelict structure in the south.
Topsoil	Topsoil is likely to be present near surface across most of the site. Subject to appropriate testing, this may be suitable for re-use within proposed garden and landscaped areas.
Foundation and Floor Slab Design	An intrusive ground investigation will be required to determine if the underlying geology will provide competent bearing strata for foundation design. Based on available information, it is considered that a traditional shallow foundation solution will be appropriate for the proposed development, founding within the superficial Glaciofluvial deposits and ensuring full penetration of any localised Made Ground. Ground bearing floor slabs may be feasible for the proposed development; however, suspended floor slabs will be required where the thickness of sub-slab fill is greater than 600mm and where ground gas protection measures are required.
Earthworks and Retaining Walls	Significant earthworks and retaining structures are unlikely to be required for the proposed development given the relatively flat lying topography.
Buried Obstructions	Buried obstructions are not likely to be encountered beneath the site, although foundations are anticipated associated with the derelict structure in the south.
Trees	Trees and hedgerows are present within the site and form the site boundaries; however, given that the site is likely to be underlain by granular Glaciofluvial deposits, it is considered unlikely that foundation and floor slab designs will need to be adjusted to account for volume change potential of cohesive soils, subject to confirmation by intrusive investigation and classification testing.
Pyritic Geology	Pyritic deposits are not anticipated beneath the site.
Drainage and Soakaways	Soil infiltration rate testing was completed by MEC in November 2023 and the results are included in Appendix F . Insufficient infiltration was recorded in four of the test

	locations due to the high percentage of clay and silt within the soils and the presence of groundwater at 2.00m below ground level (bgl) in SA01 and 2.20m bgl in SA06. Two tests were completed in SA04 with the lowest calculated infiltration rate of 5.02×10^{-6} m/s recorded and a single test was completed in SA03, with an infiltration rate of 6.91×10^{-7} m/s recorded. Given the high fines content within the soils encountered and the presence of shallow groundwater, soakaways will not provide a viable and consistent drainage solution for the site. Very limited infiltration may be available locally, although this would be subject to additional location specific testing.
Roads and Pavements	The anticipated near surface natural granular soils, will likely provide a CBR Design value in excess of 5%. Where Made Ground is encountered, the materials should be removed to a depth of at least 500mm below formation, sorted, supplemented as necessary, and re-compacted to provide a CBR Design value within the range 2-5%.

6.0 PRELIMINARY ENVIRONMENTAL RISK ASSESSMENT

Background

- 6.1 This section assesses the significance of the environmental issues that have been identified on site or in the surrounding area in previous sections of this report by developing a preliminary Conceptual Site Model (CSM). The objective of the CSM is to identify contaminant sources, pathways and receptors relating to the site and surrounding area to evaluate the potential for a pollution event to occur using a risk classification tool. The level of risk is assessed by comparing the likelihood of a pollution event to occur, versus the consequence of a pollution occurrence. The consequence is essentially a measurement of the severity of a hazard (or source) and sensitivity of the receptor (controlled waters and human health).
- 6.2 The risk assessment methodology detailing the classes of significance is detailed after the preliminary CSM below.

Preliminary Contamination Risk Assessment

- 6.3 Based on the reported history of the site and surrounding area, a low to moderate risk is identified associated with the following potential sources of contamination:
- Made Ground associated with the mounds and derelict building in the south;
 - Above ground storage tank to the north;
 - Potential asbestos sheet roofing on the derelict building in the south;
 - The Field Farm to the north;
 - Ground gas generation from localised Made Ground sources including landfills and infilled ponds in the surrounding area.
- 6.4 The following potential contaminant sources are at a sufficient distance such that the risk of contaminant migration to the site is likely to be very low:
- Electricity sub-station to the south;
 - Historical garage to the south-east; and
 - Sawmill and associated tanks to the north-west.
- 6.5 It is therefore considered that the following potential contaminants may impact the site:

- Heavy metals;
- Asbestos;
- Poly-Aromatic Hydrocarbons;
- Total Petroleum Hydrocarbons; and
- Ground Gases.

Preliminary Conceptual Site Model

6.6 The pollutant linkages pertaining to the site and the assessed significance are summarised in the CSM table below:

Source	Pathway	Receptor	Pollutant Linkage Risk
Potential contamination in shallow soils on site	Direct contact and accidental ingestion/inhalation of contaminated soils and dust.	Construction/Demolition Workers.	Low: Intrusive investigation will confirm if contaminant concentrations within the shallow soils pose a risk to human health receptors.
		Future Site Users.	
	Vertical and lateral migration through shallow soils or via surface and groundwater.	Nearby Controlled Waters	Low: The underlying deposits are considered likely to be granular, enabling vertical and lateral migration of contamination. Further investigation is required to confirm the risk to controlled waters and third-party property.
		Underlying Aquifers.	
		Third-party property.	
	Direct contact/soil leaching.	Buried utilities	Low: Hydrocarbons are unlikely to be encountered within the near surface soils; however, further investigation is required to confirm the risk to buried utilities.
		Buried concrete	Low: Pyritic deposits are not anticipated beneath the site. Further investigation is required to confirm the risk to buried concrete
Off-site contamination sources	Lateral migration onto site via shallow soils and groundwater	Construction/Demolition workers.	Low: Potentially contaminative land uses have been identified in the surrounding area, and the risk of migration of contaminants to the site is assessed to be low.
		Future Site Users.	
		Buried utilities and concrete structures	

Source	Pathway	Receptor	Pollutant Linkage Risk
Asbestos containing materials	Incidental inhalation of asbestos fibres	Construction/Demolition workers.	Low to Moderate: Suspected ACMs have been observed during the site walkover. An asbestos survey should be carried out by a suitably qualified professional and arrangements will need to be made for the removal of any identified ACMs prior to demolition.
Ground gas generation	Migration through porous soils and accumulation in confined spaces	Construction Workers	Low: Potential localised ground gas sources have been identified on-site and within the surrounding area. Further investigation will be required to determine if ground gas protection measures are required. The site lies in an area where less than 1% of properties exceed the Radon action level. Radon protection measures will not be required.
		Future Site Users	

Preliminary CSM and Environmental Risk Assessment

6.7 The significance of the potential source-pathway-receptor linkages identified in the conceptual site model should be assessed using the following criteria:

- **Very High** – There is a high probability that severe harm could arise to a designated receptor from an identified hazard, or there is evidence that severe harm to a designated receptor is currently happening. Investigation and remedial measures are required.
- **High** – Harm is likely to arise to a designated receptor from an identified hazard. Investigation and remedial measures are required.
- **Moderate** – It is possible that harm could arise to a designated receptor from an identified hazard. Investigation and remedial measures may be required.
- **Low** – It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild. Remedial measures are not normally required.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Summary

- 7.1 Based on the findings of this desk study and the initial conceptual site model, it is considered that the environmental risk at the site is generally low, locally low to moderate, with the principal risk drivers relating to localised Made Ground sources on and off-site, asbestos associated with the derelict building in the south, and the tank and Fields Farm to the north.
- 7.2 It is not anticipated at this stage, subject to confirmation, that extensive remediation will be required for the proposed development although there may be a requirement for the localised removal and/or capping of contaminated Made Ground or near surface materials, if encountered. Ground gas protection measures may be required. The risk is relatively low based on existing information although a full ground gas risk assessment will be required.
- 7.3 Traditional strip/trench fill foundations are expected to be appropriate for the proposed development and the anticipated presence of granular glacial soils will limit the potential impact from trees due to volume change potential.
- 7.4 Ground bearing floor slabs may be feasible however, suspended floor slabs will be required where the thickness of sub-slab fill exceeds 600mm and if ground gas protection measures are required.
- 7.5 The results of the soil infiltration rate testing indicate that soakaways will not provide a viable and consistent drainage solution for the site. Very limited infiltration may be available but this would be subject to confirmation by location specific testing.

Recommendations

- 7.6 Given the findings of this Desk Study, it is recommended that a Phase II Intrusive Investigation is undertaken to confirm; the underlying geology and the extent of any contamination, the completion of a ground gas risk assessment and clarification of civil engineering design requirements. The investigation should be designed considering detailed development proposals and required performance criteria.
- 7.7 It is recommended that a copy of this report is submitted to the Local Planning Authority to support the planning application for the site. Review of this report will enable the contaminated land or environmental health officer to comment as consultee to the Local Planning Officer. Future ground investigation will likely be conditioned as part of a planning permission.



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APPENDICES



APPENDIX A



SITE LOCATION PLAN

Project: Barlestone Road, Newbold Verdon

File Ref: 24832

O.S. Grid Ref: 444791, 304283

Postcode: LE9 9NE



Site Features Plan

Project: Barlestone Road, Newbold Verdon, Leicestershire
File Ref: 24832
Postcode: LE9 9NE





KEY

SITE BOUNDARY

INDICATIVE PUBLIC OPEN SPACE

RETAINED EXISTING VEGETATION

INDICATIVE PROPOSED TREES AND PLANTING

INDICATIVE BUILT FORM

CORRECTED VIEWPOINT 5
(DRAFT REGULATION 16
NEIGHBOURHOOD PLAN)

INDICATIVE SWALES

EXISTING BYWAY OPEN TO ALL TRAFFIC

UNCLASSIFIED ADOPTED ROAD

EXISTING FOOTPATH

POTENTIAL PEDESTRIAN
CYCLE CONNECTION

RETAINED VEHICULAR ACCESS
ROUTE TO EQUESTRIAN CENTRE/
PROPOSED ACCESS TO CEMETERY

PROPOSED PEDESTRIAN ACCESS POINT

RETAINED PROW ACCESS POINTS

PRIMARY VEHICULAR ACCESS POINT

EXISTING BARLESTONE ROAD
CROSSING POINTS

NEW BARLESTONE ROAD
CROSSING POINTS

INDICATIVE FOUL PUMPING STATION

AGRICULTURAL ACCESS

PRIVATE DRIVE ACCESS TO (EXISTING)
WILLOWBROOK COTTAGE

DRAINAGE OUTFALL

BARLESTONE ROAD, NEWBOLD VERDON – INDICATIVE MASTERPLAN



Issue:

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KEY



SITE BOUNDARY



PROPOSED OPEN SPACE
including sustainable urban drainage basins



PROPOSED DEVELOPMENT PARCELS
including roads/ footpaths/ infrastructure



LOCATION OF PROPOSED LAND
SET ASIDE FOR CEMETERY



SAFEGUARDED COMMUNITY
FACILITY LAND



INDICATIVE AREA REQUIRED FOR
INTERNAL ACCESS ROADS
not within the residential land use



INDICATIVE AREA REQUIRED FOR
PROPOSED ACCESS ROADS
not within the residential land use



PRIMARY VEHICULAR
ACCESS POINT



LOCATION OF INDICATIVE
PROPOSED BASINS



LOCATION OF EXISTING WATER
FEATURE



AGRICULTURAL ACCESS



PRIVATE DRIVE ACCESS TO (EXISTING)
WILLOWBROOK COTTAGE



PROPOSED INDICATIVE AREA OF PLAY



PROPOSED ACCESS TO CEMETERY



PROPOSED PEDESTRIAN/ CYCLE
ACCESS



RETAINED PROW ACCESS POINTS



DRAINAGE OUTFALL

*All features and areas shown to a
tolerance of 10m

BARLESTONE ROAD, NEWBOLD VERDON – PARAMETER PLAN





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APPENDICES



APPENDIX B



Photo 1: View looking south across the paddocks used for grazing horses.



Photo 2: View looking south across the paddocks used for grazing horses.



Photo 3: View looking south-east across the access track in the north-west.



Photo 4: Overhead electricity cables which run parallel to the access track in the north-west.

Site Name
Barlestone Road,
Newbold Verdon

Project No.:
24832

Client:
David Wilson Homes
East Midlands

Walkover Date:
14-09-2023



Photo 5: View looking north-east at the mound in the exercise area.



Photo 6: View looking south-west at the mound in the exercise area.



Photo 7: View looking east at the pond in the exercise area.



Photo 8: View looking east at the jumps within the exercise area.

Site Name
Barlestone Road,
Newbold Verdon

Project No.:
24832

Client:
David Wilson Homes
East Midlands

Walkover Date:
14-09-2023



Photo 9: View looking south across the sand surfaced manège surrounded by overhead lighting.



Photo 10: View looking west at the derelict building with potential asbestos sheet roofing.



Photo 11: View looking east at the overhead electricity cables in the south.



Photo 12: View looking south-west at the footpath intersecting the eastern fields.

Site Name
Barlestone Road,
Newbold Verdon

Project No.:
24832

Client:
David Wilson Homes
East Midlands

Walkover Date:
14-09-2023



Site Name
Barlestone Road,
Newbold Verdon

Project No.:
24832

Client:
David Wilson Homes
East Midlands

Walkover Date:
14-09-2023

Photo 13: View looking north at the above ground storage tank adjacent to the northern boundary.

Photo 14: View looking north at the Livery Office and Staff Room adjacent to the northern boundary.



MEC
Consulting Group

APPENDICES



APPENDIX C

Site Details:

LAND AT BARLESTONE ROAD,
NEWBOLD VERDON, LE9 9NE

Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW
Grid Ref: 444838, 304253

Map Name: County Series

Map date: 1885

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1885
Revised 1885
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1885
Revised 1885
Edition N/A
Copyright N/A
Levelled N/A

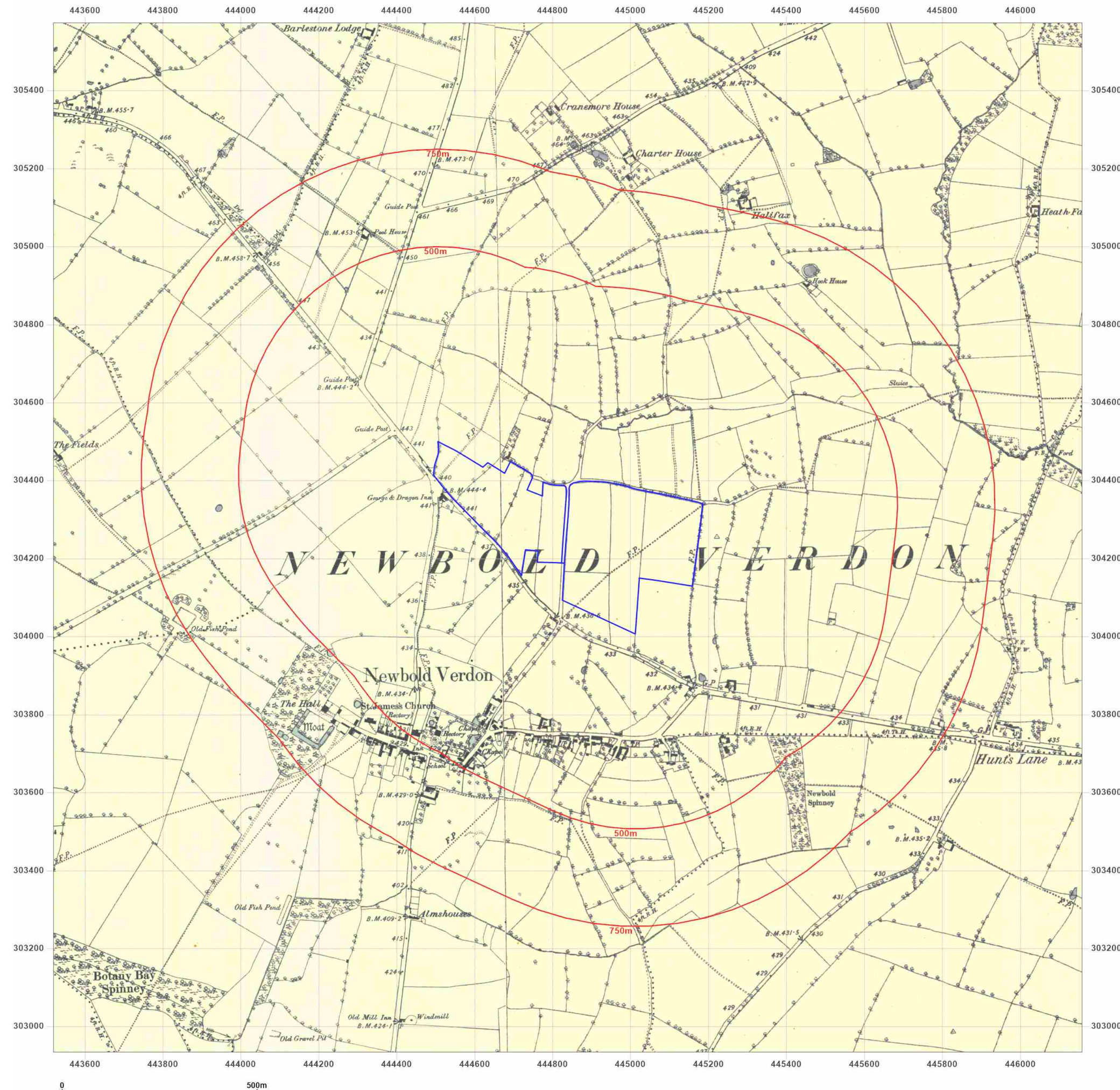


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Site Details:

LAND AT BARLESTONE ROAD,
NEWBOLD VERDON, LE9 9NE

Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW
Grid Ref: 444838, 304253

Map Name: County Series

Map date: 1901-1904

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1885
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1885
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

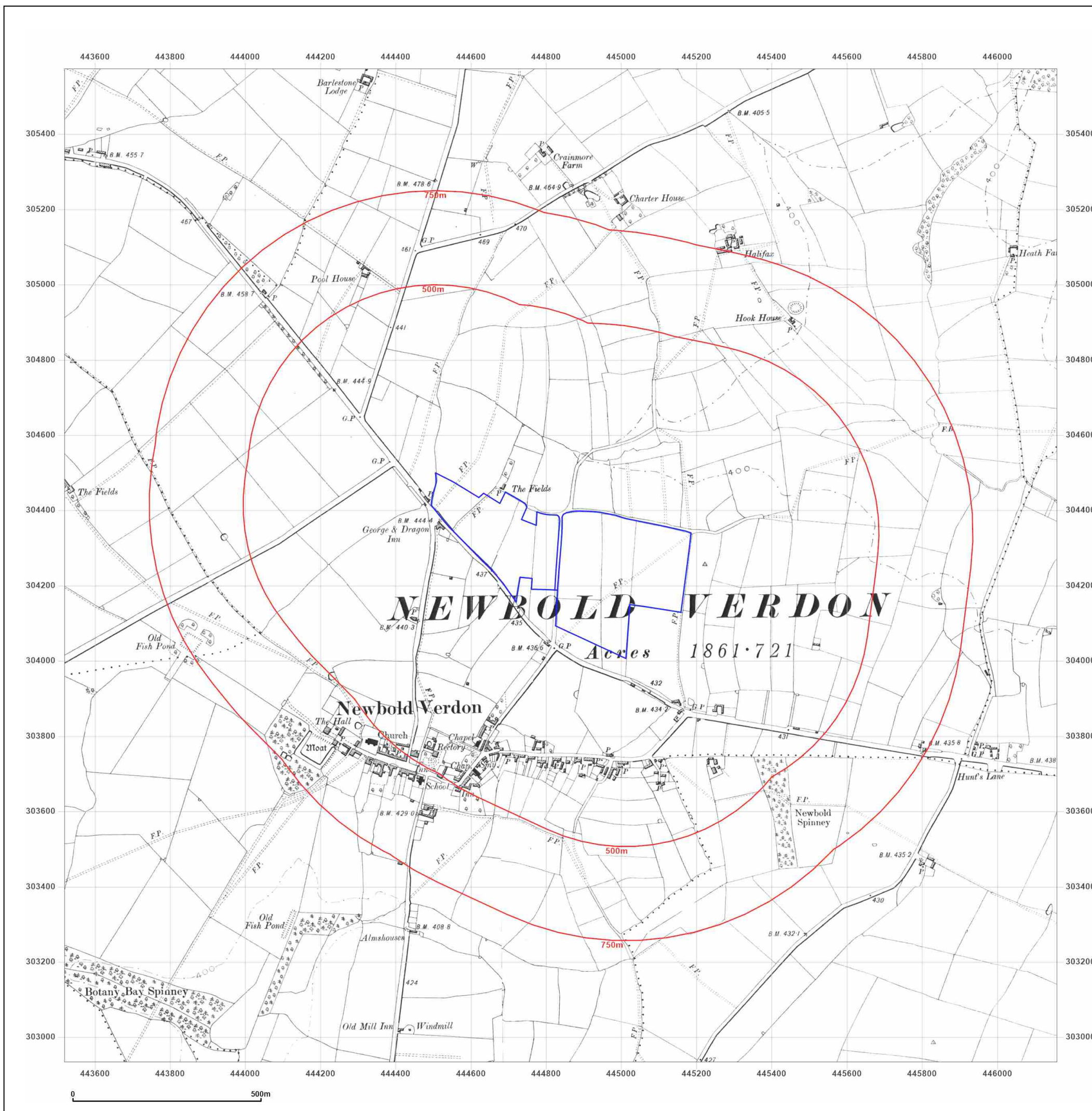


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Site Details:

LAND AT BARLESTONE ROAD,
NEWBOLD VERDON, LE9 9NE

Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW
Grid Ref: 444838, 304253

Map Name: County Series

Map date: 1919

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1884
Revised 1919
Edition N/A
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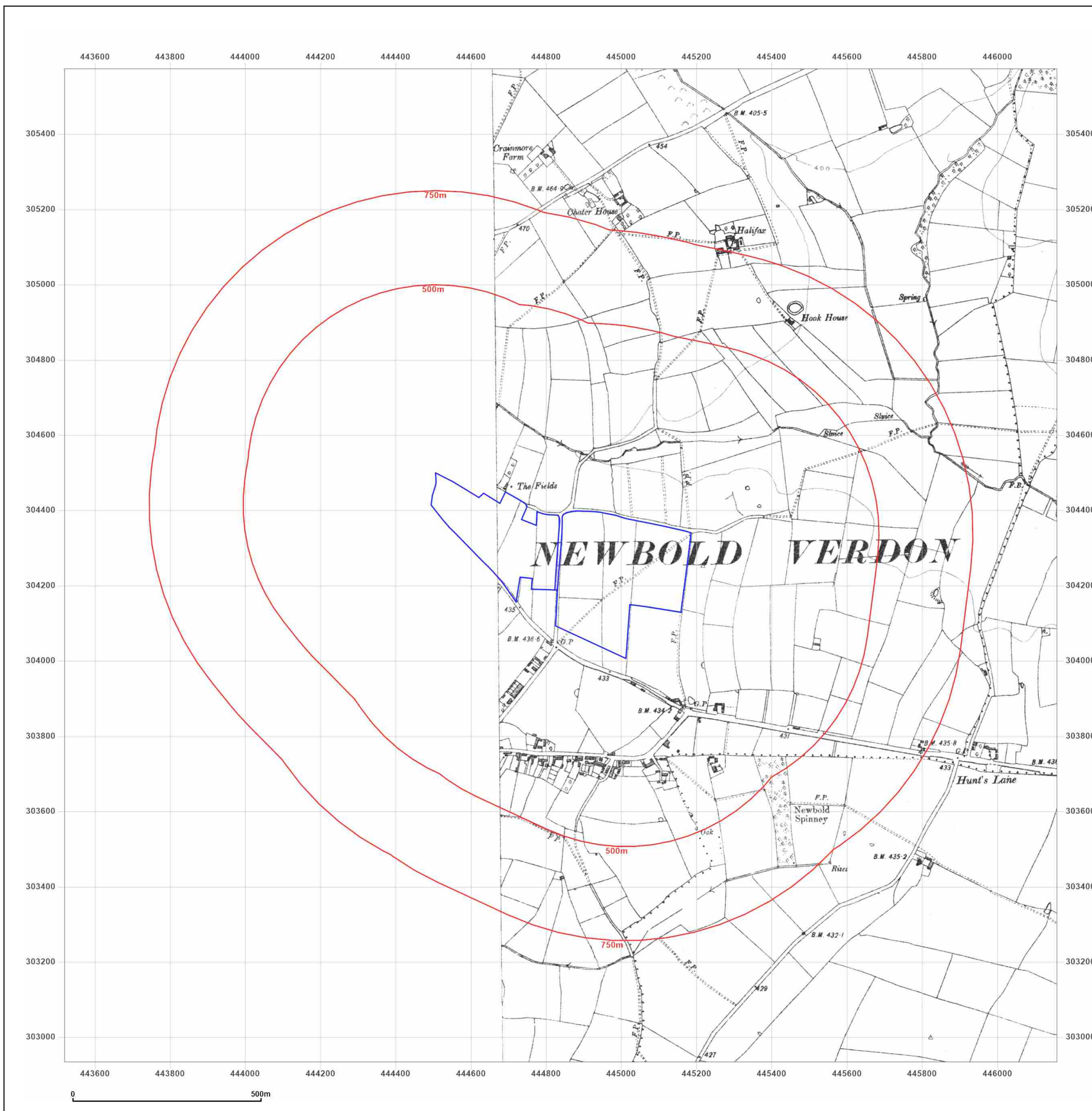


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NEWBOLD VERDON, LE9 9NE

Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW
Grid Ref: 444838, 304253

Map Name: County Series

Map date: 1931

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1884
Revised 1931
Edition N/A
Copyright N/A
Levelled N/A

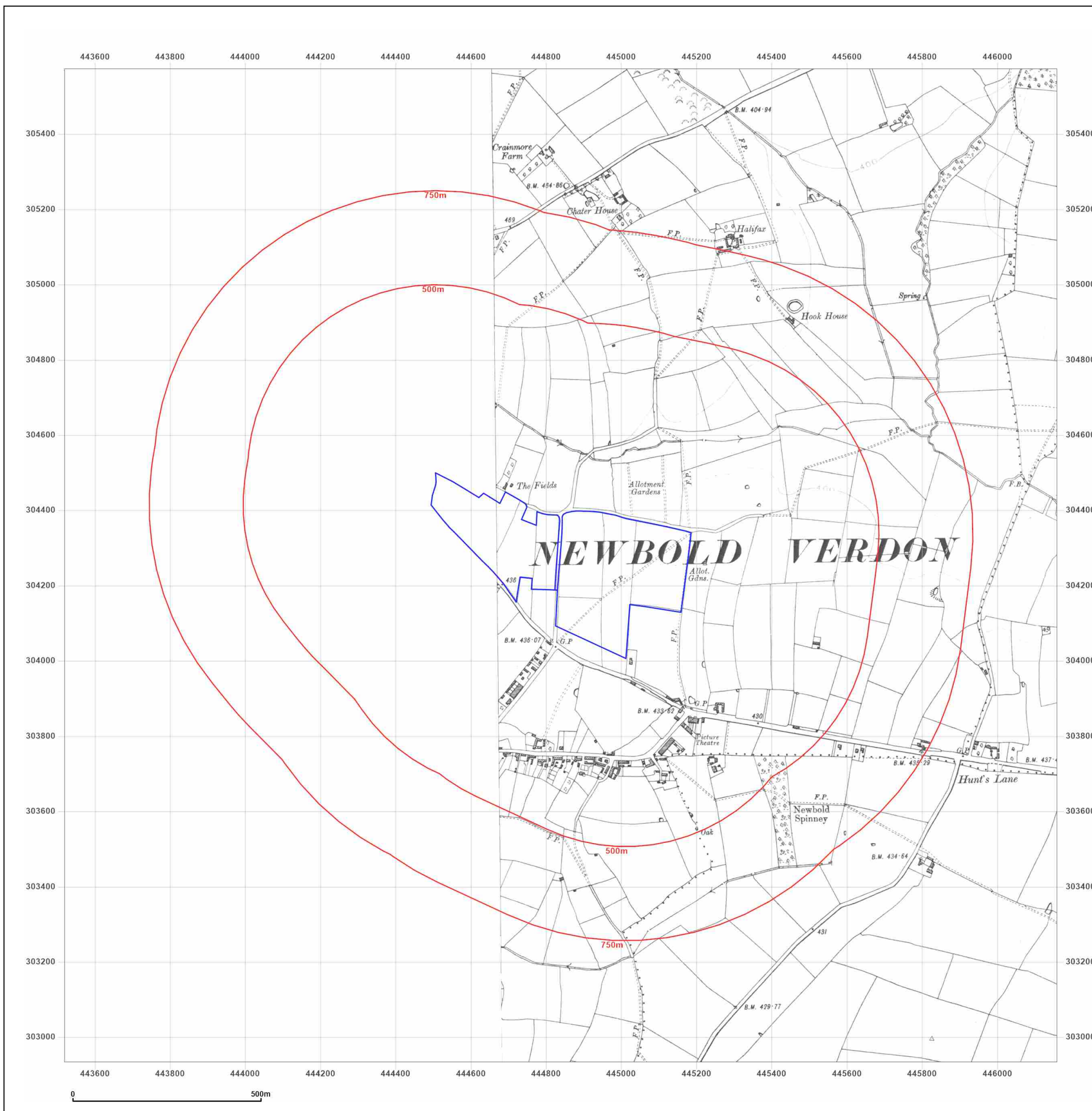


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW
Grid Ref: 444838, 304253

Map Name: Provisional

Map date: 1950-1955

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1955
Edition 1955
Copyright N/A
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Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled N/A

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

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
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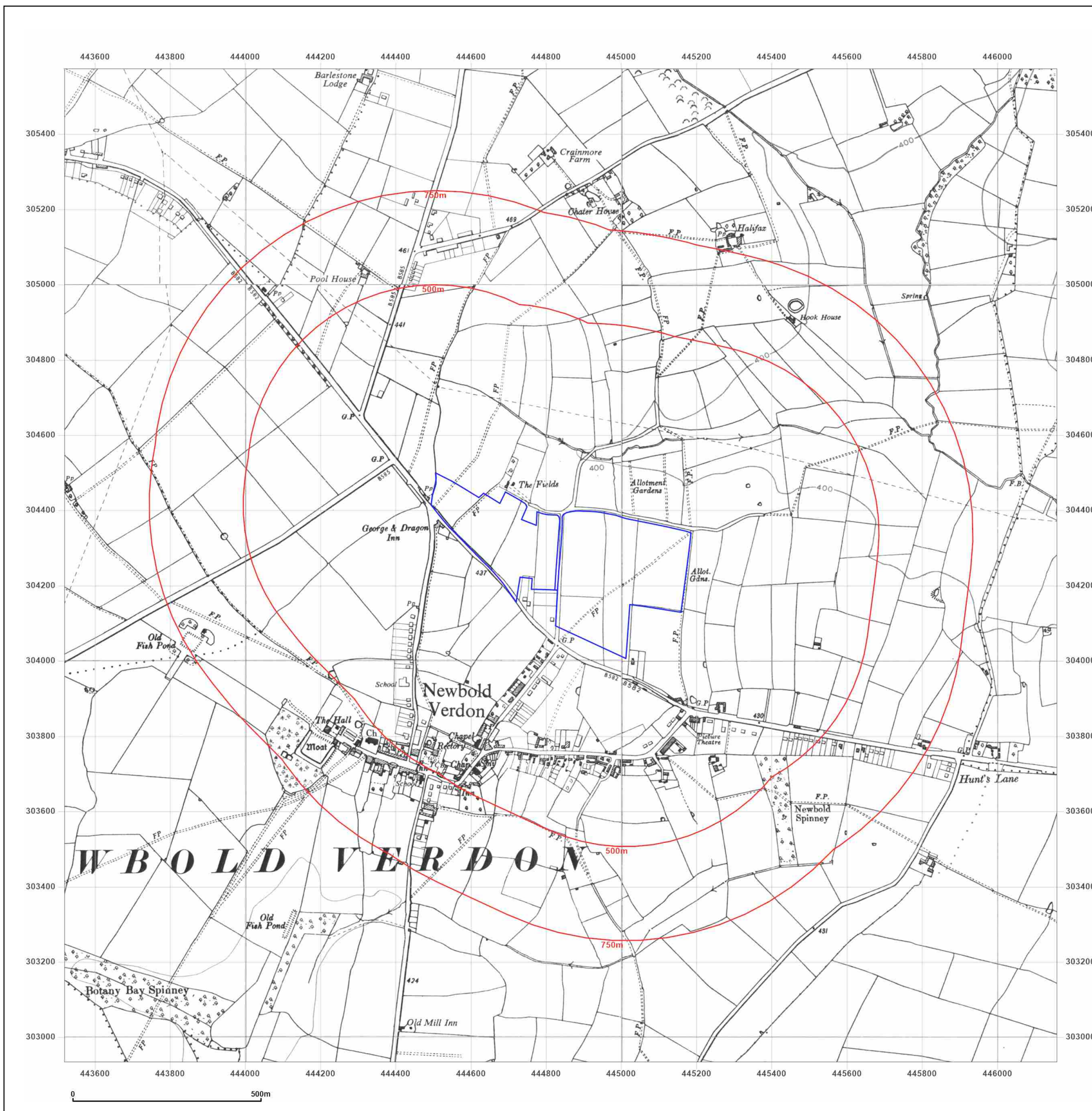


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Site Details:

LAND AT BARLESTONE ROAD,
NEWBOLD VERDON, LE9 9NE

Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW
Grid Ref: 444838, 304253

Map Name: Provisional

Map date: 1966-1968

Scale: 1:10,560

Printed at: 1:10,560



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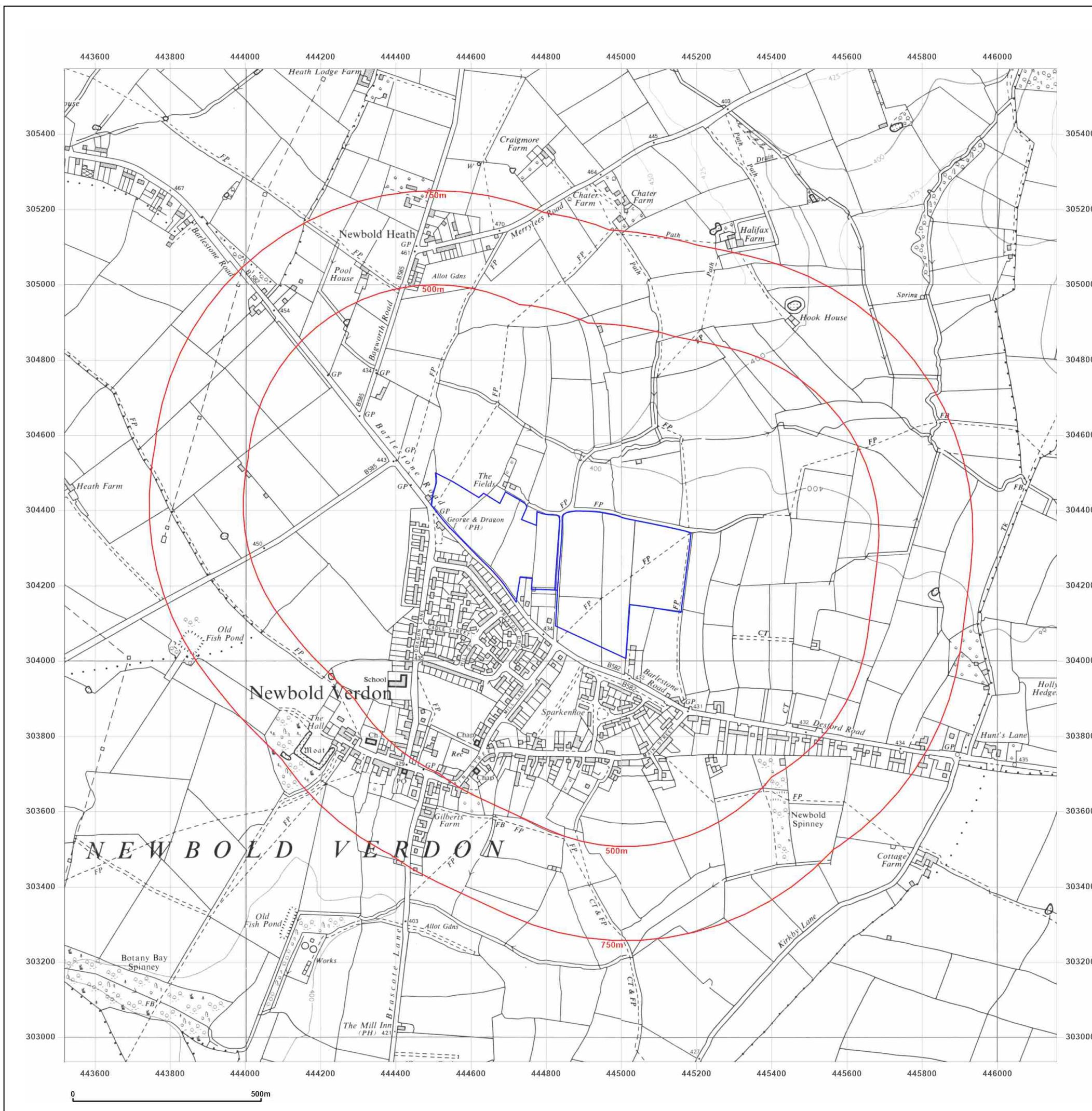


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW
Grid Ref: 444838, 304253

Map Name: National Grid

Map date: 1980-1984

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1977
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Edition N/A
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Levelled N/A

Surveyed 1972
Revised 1984
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1976
Revised 1980
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Copyright N/A
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Surveyed 1979
Revised 1980
Edition N/A
Copyright N/A
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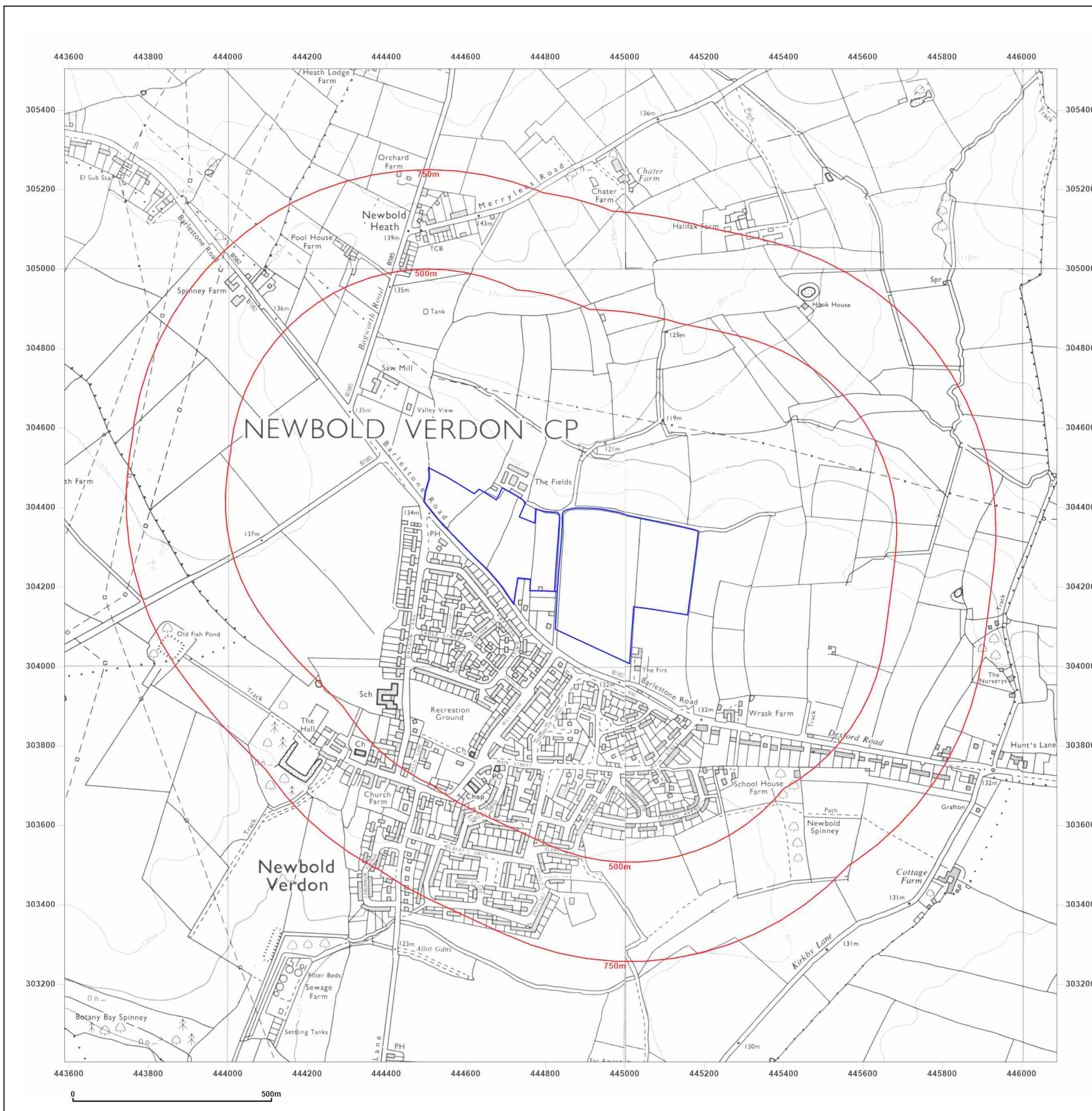


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW
Grid Ref: 444838, 304253

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010

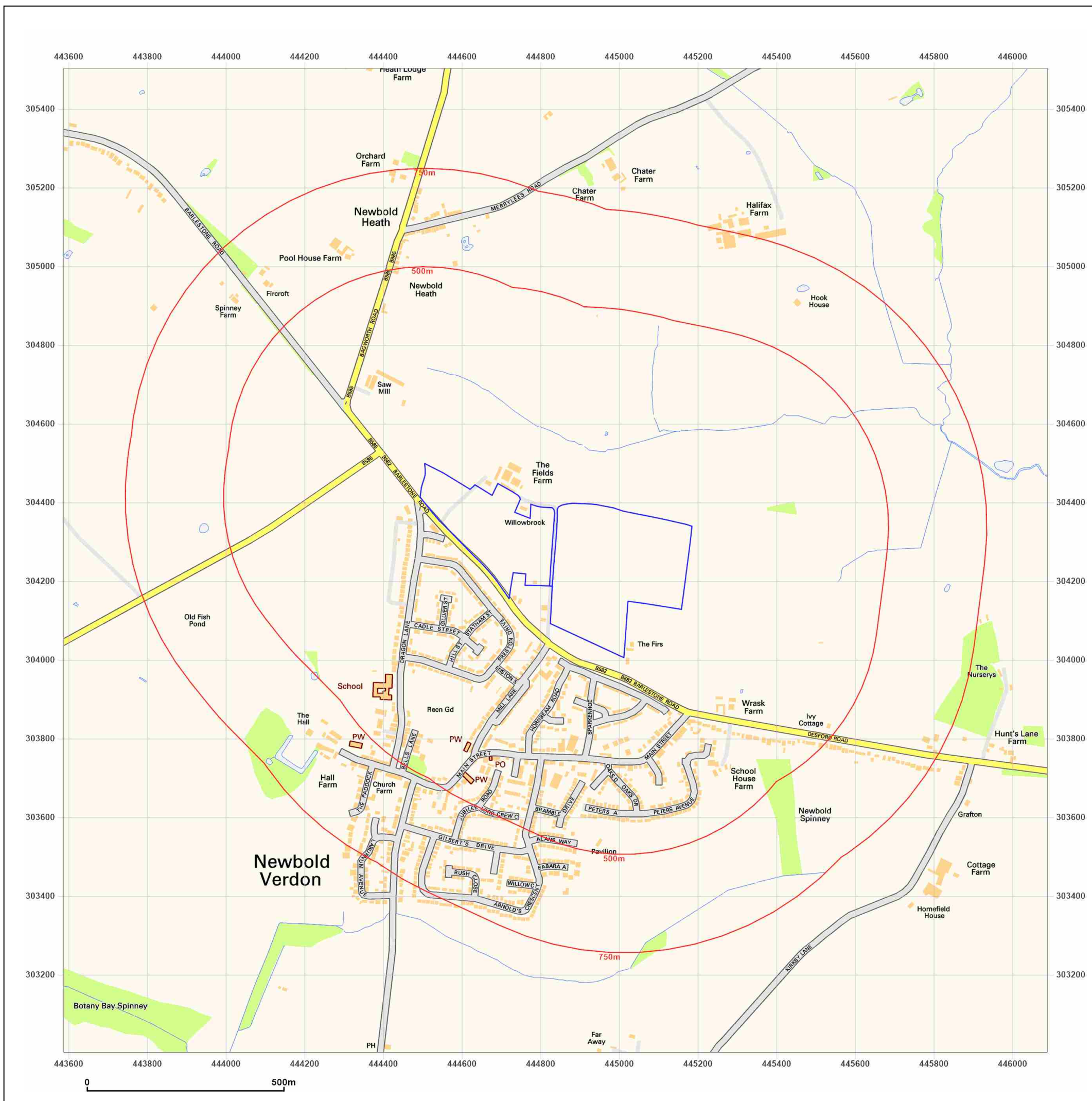


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW
Grid Ref: 444838, 304253

Map Name: National Grid

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Printed at: 1:10,000



2023

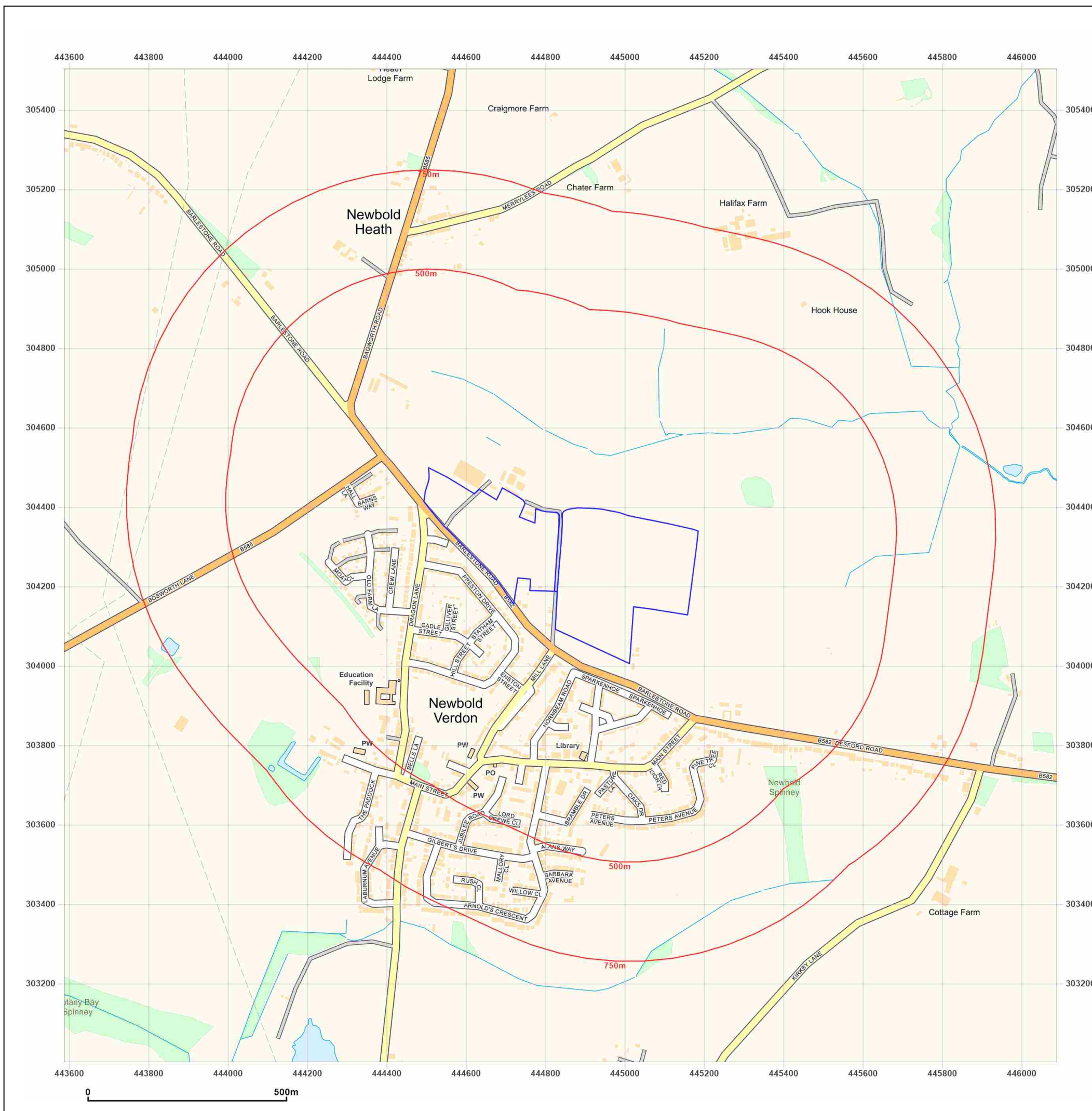


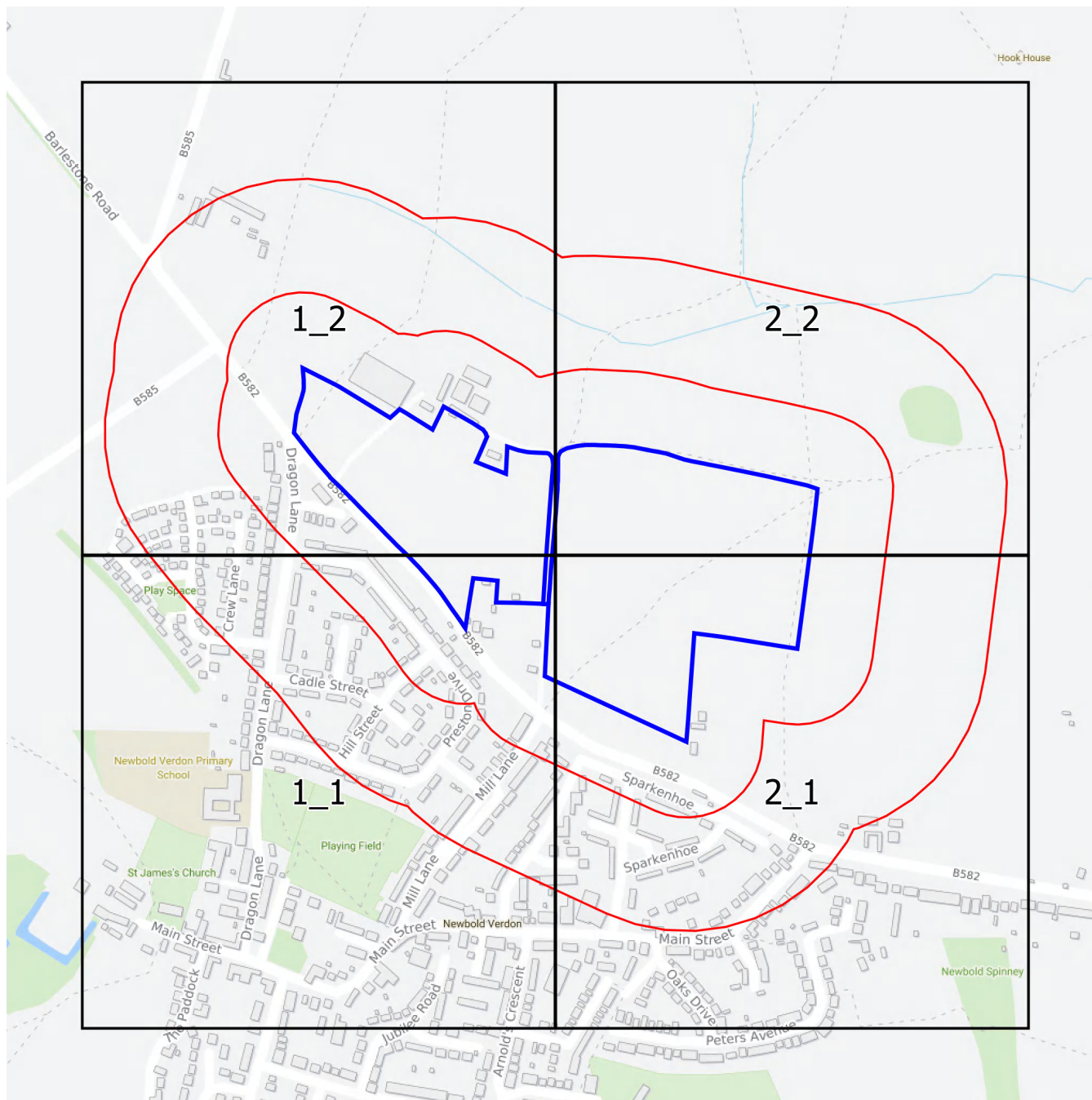
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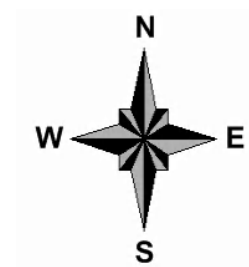
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1:2,500 Scale Grid Index



Site Details:

LAND AT BARLESTONE ROAD,
NEWBOLD VERDON, LE9 9NE

Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_1
Grid Ref: 444525, 303940

Map Name: County Series

Map date: 1886

Scale: 1:2,500

Printed at: 1:2,500



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Edition N/A
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Levelled N/A

Surveyed 1886
Revised 1886
Edition N/A
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Levelled N/A

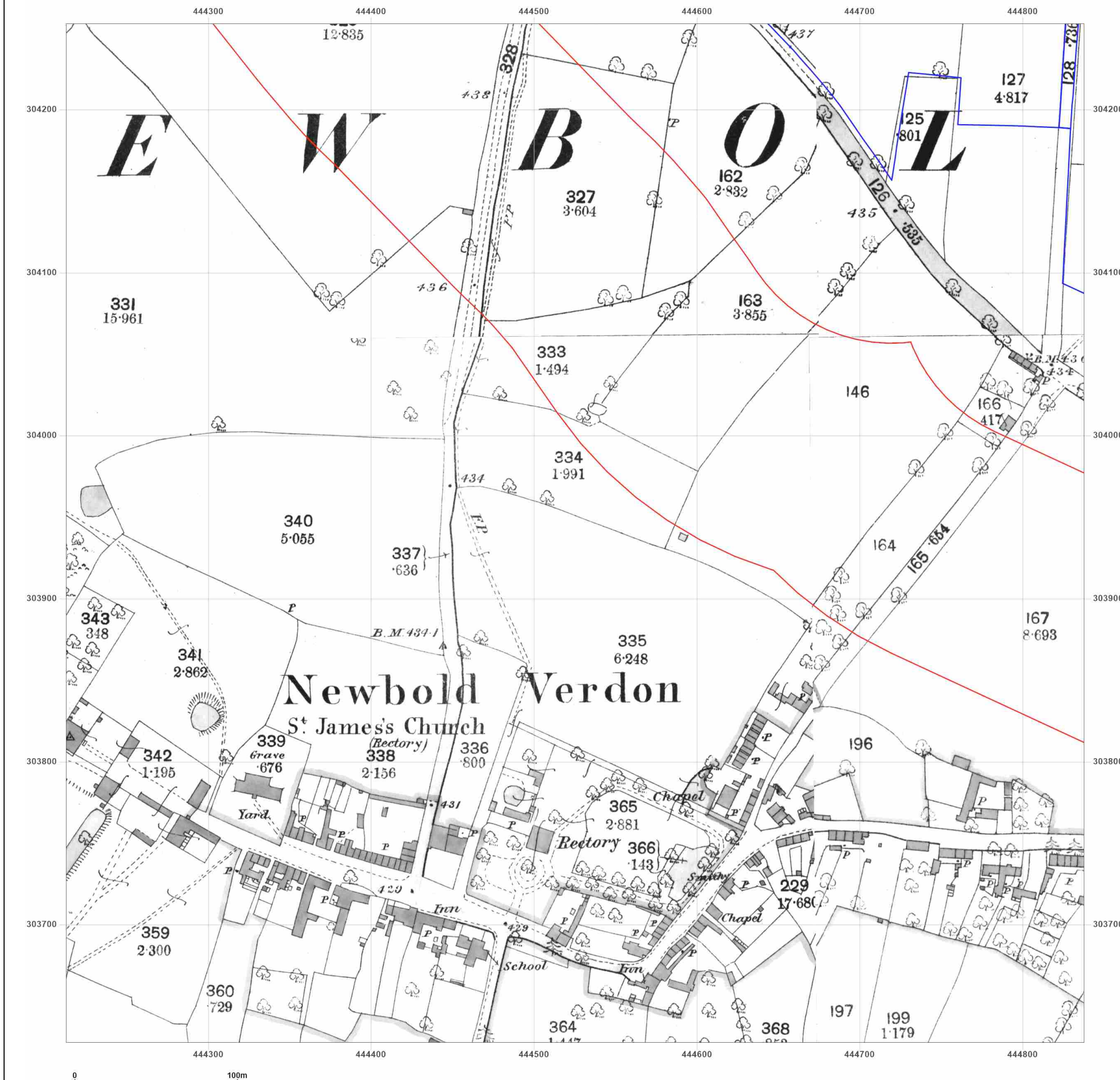


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_1
Grid Ref: 444525, 303940

Map Name: County Series

Map date: 1903

Scale: 1:2,500

Printed at: 1:2,500



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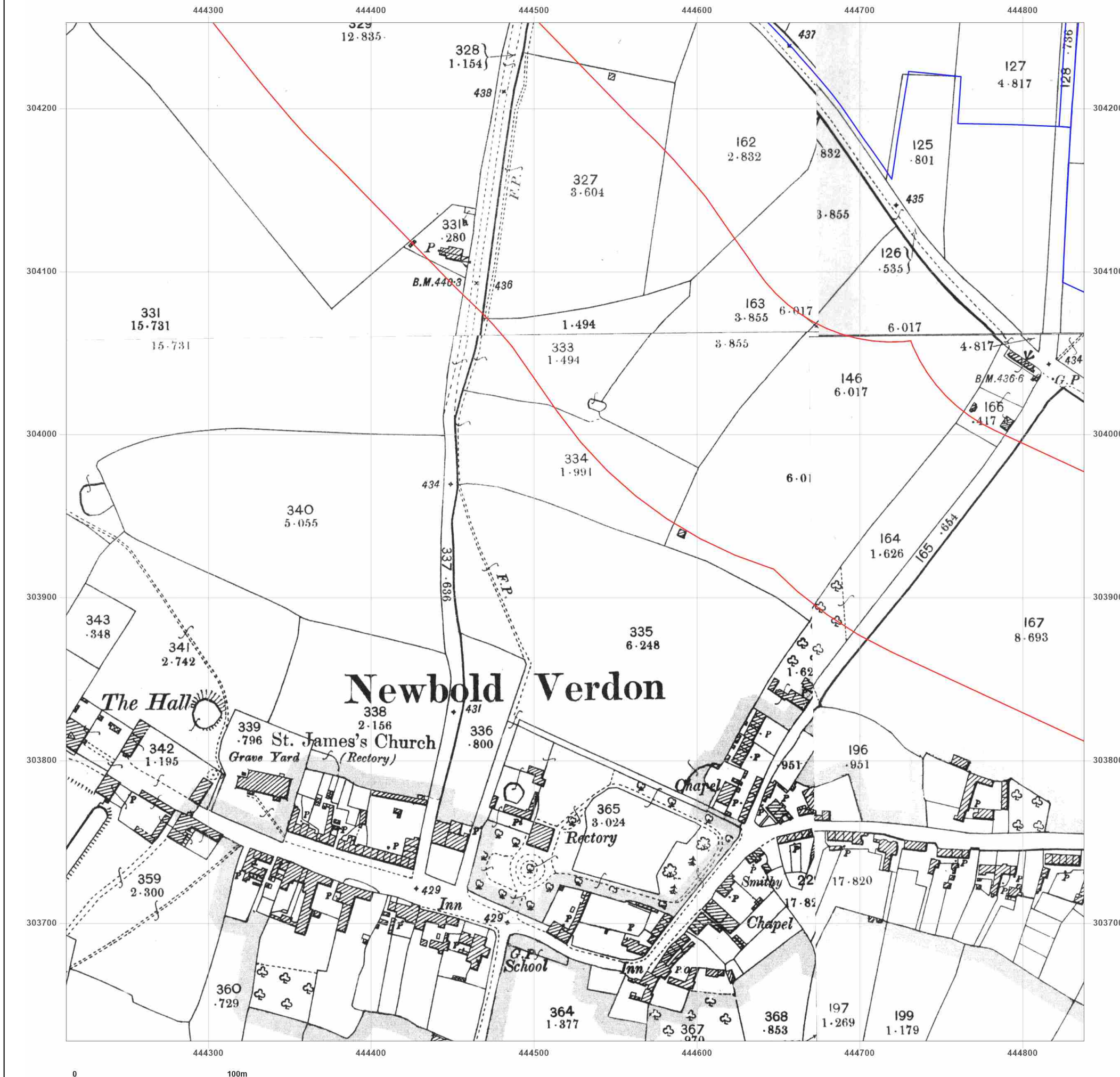


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_1
Grid Ref: 444525, 303940

Map Name: County Series

Map date: 1915-1916

Scale: 1:2,500

Printed at: 1:2,500



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Levelled N/A

Surveyed 1916
Revised 1916
Edition N/A
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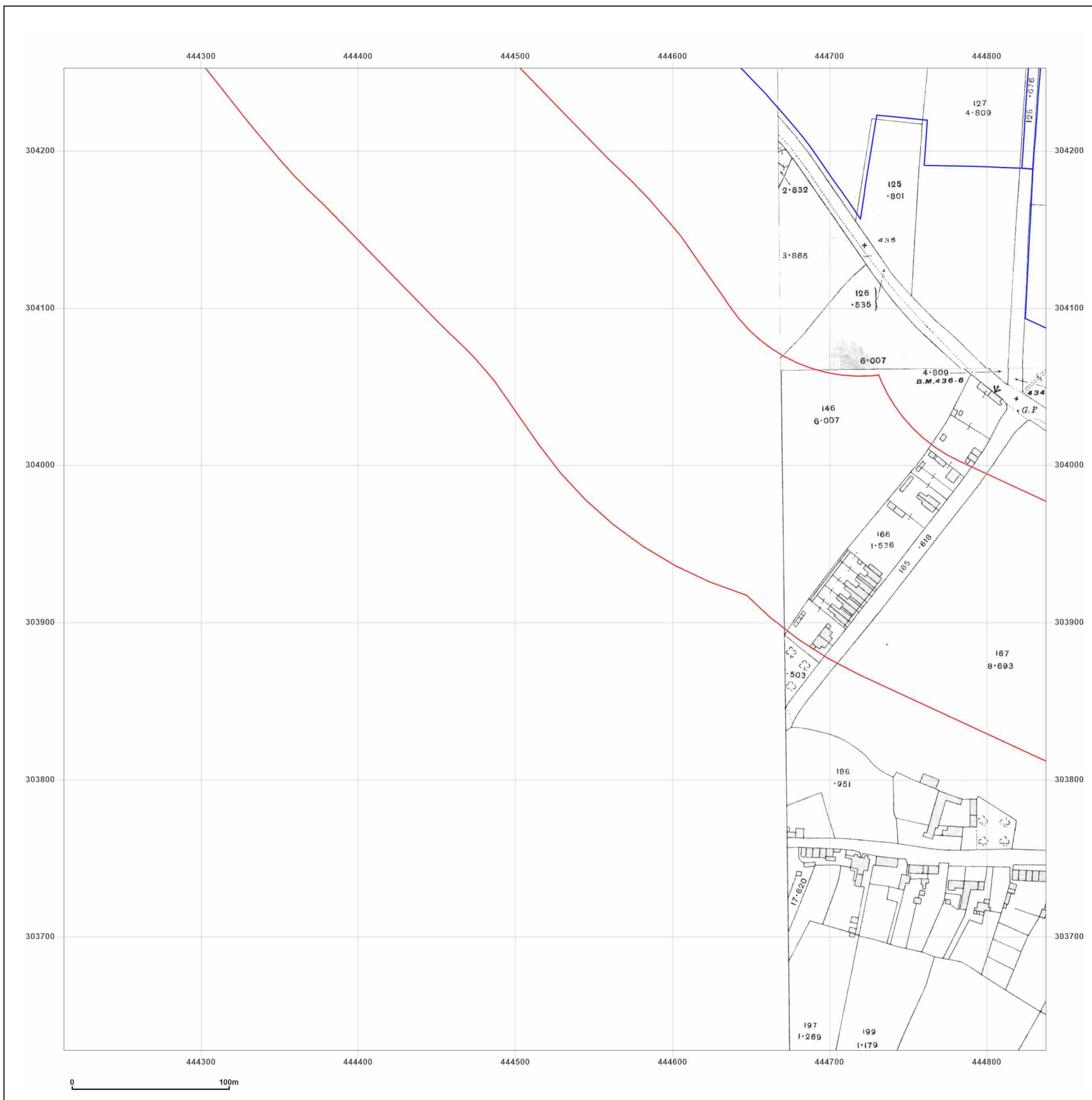


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_1
Grid Ref: 444525, 303940

Map Name: County Series

Map date: 1930

Scale: 1:2,500

Printed at: 1:2,500



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Edition N/A
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Edition N/A
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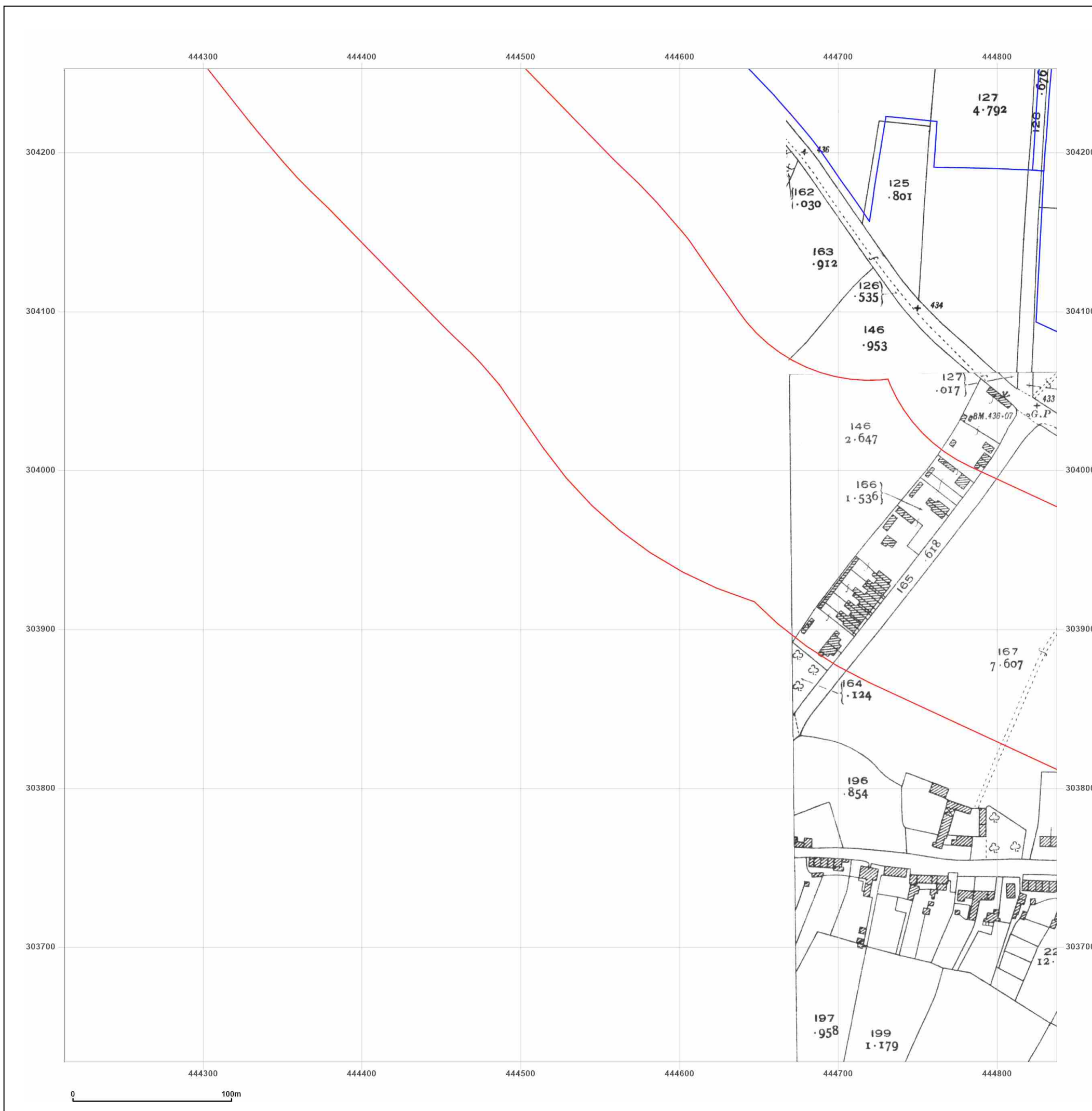


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_1
Grid Ref: 444525, 303940

Map Name: National Grid

Map date: 1958

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1958
Revised 1958
Edition N/A
Copyright 1959
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Surveyed 1958
Revised 1958
Edition N/A
Copyright 1959
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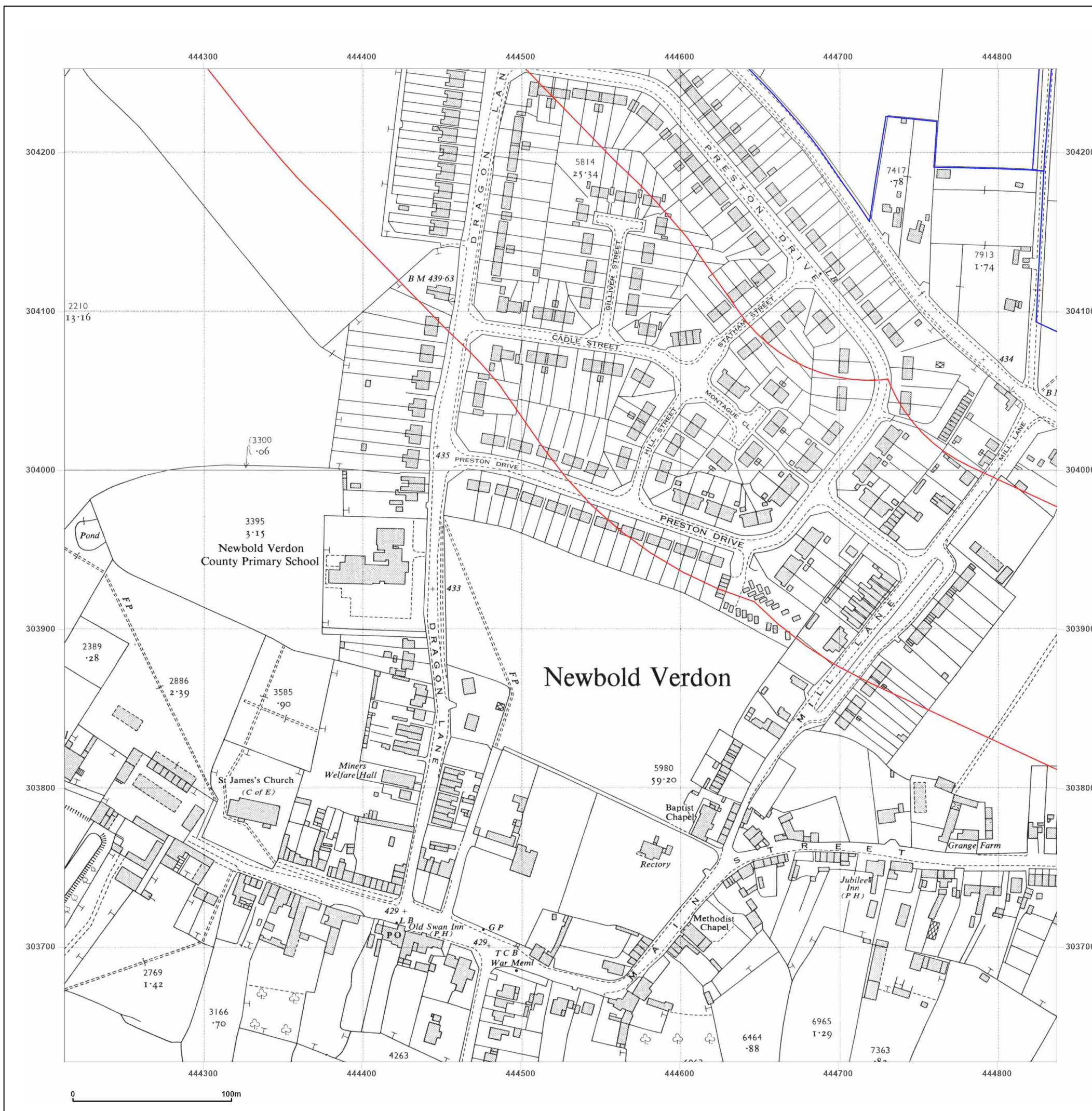


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Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_1
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Map Name: National Grid

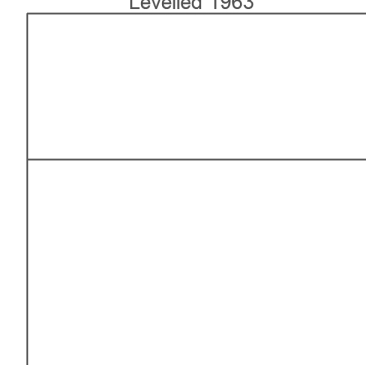
Map date: 1963

Scale: 1:2,500

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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_1
Grid Ref: 444525, 303940

Map Name: National Grid

Map date: 1972

Scale: 1:2,500

Printed at: 1:2,500



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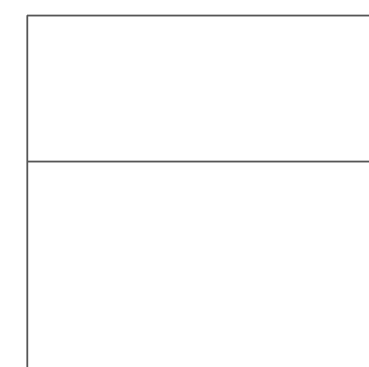
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Revised 1972
Edition N/A
Copyright 1972
Levelled 1963

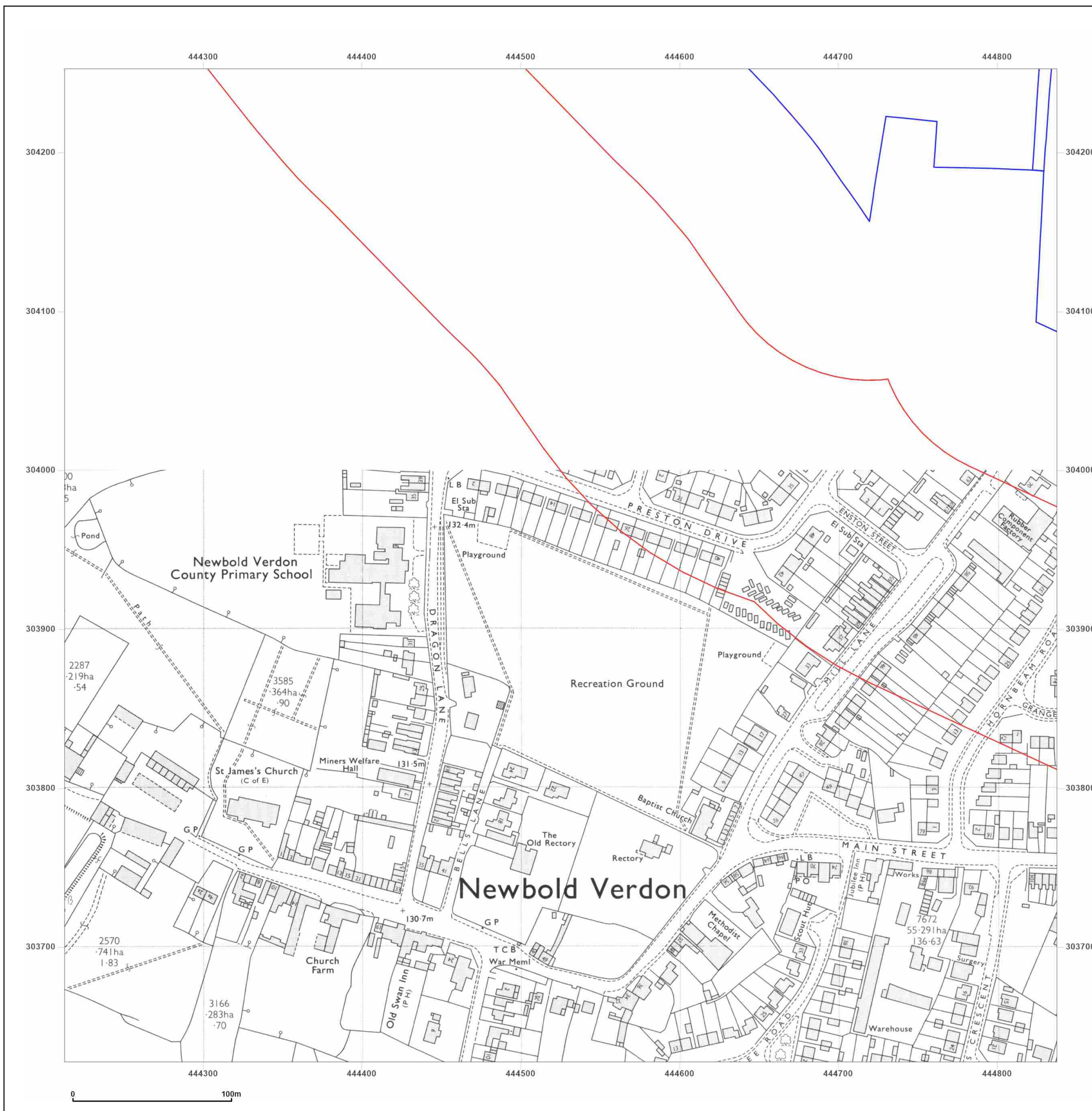


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Client Ref: POP00
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Grid Ref: 444525, 303940

Map Name: National Grid

Map date: 1980

Scale: 1:2,500

Printed at: 1:2,500



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

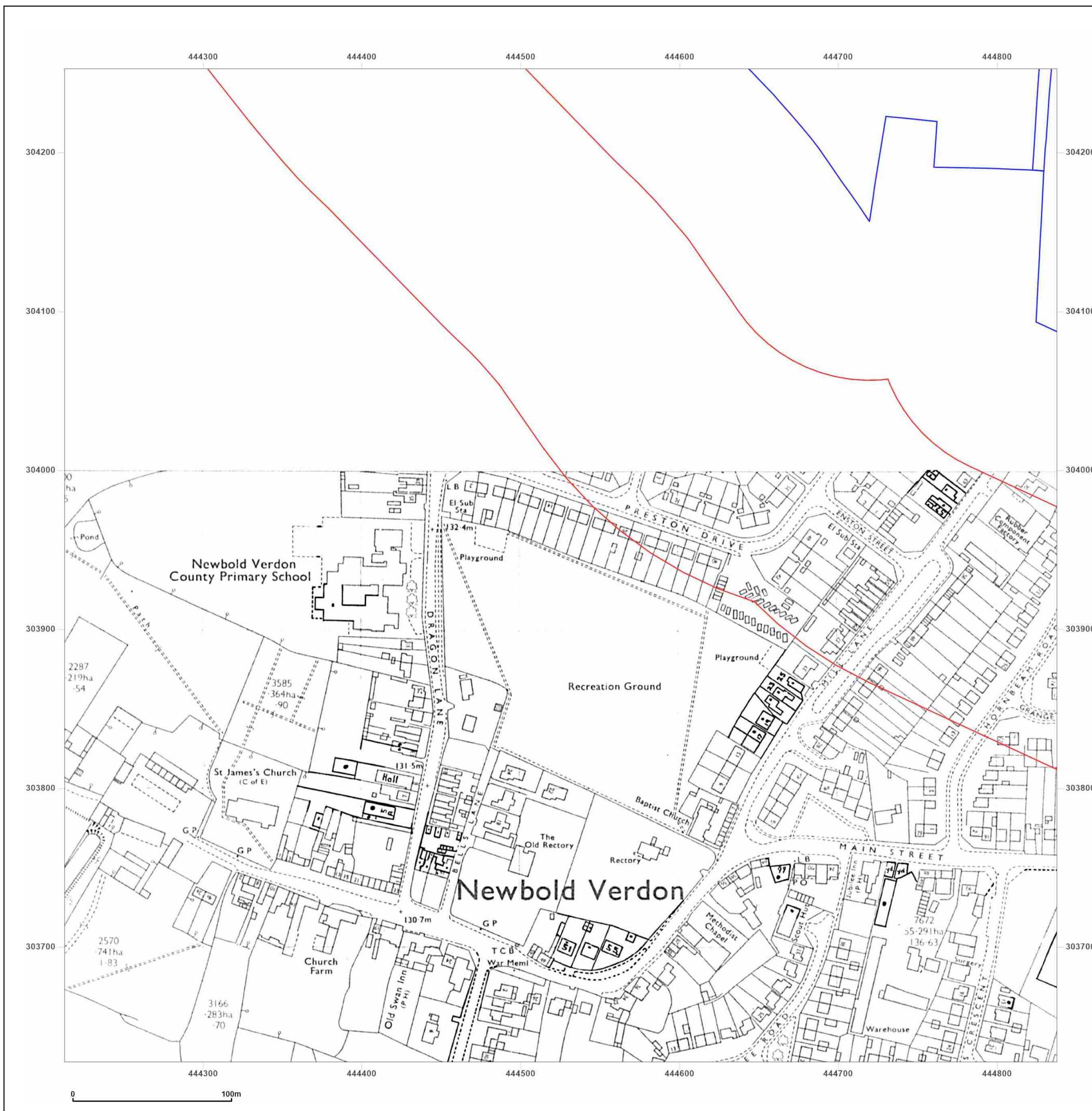


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_1
Grid Ref: 444525, 303940

Map Name: National Grid

Map date: 1982-1984

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_1
Grid Ref: 444525, 303940

Map Name: National Grid

Map date: 1991

Scale: 1:2,500

Printed at: 1:2,500



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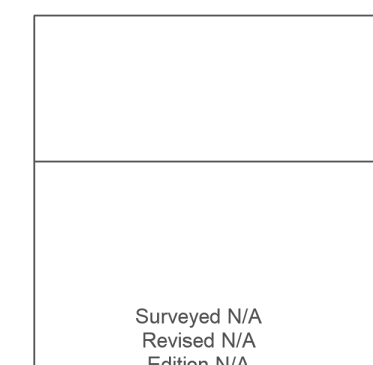
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Revised N/A
Edition N/A
Copyright 1991
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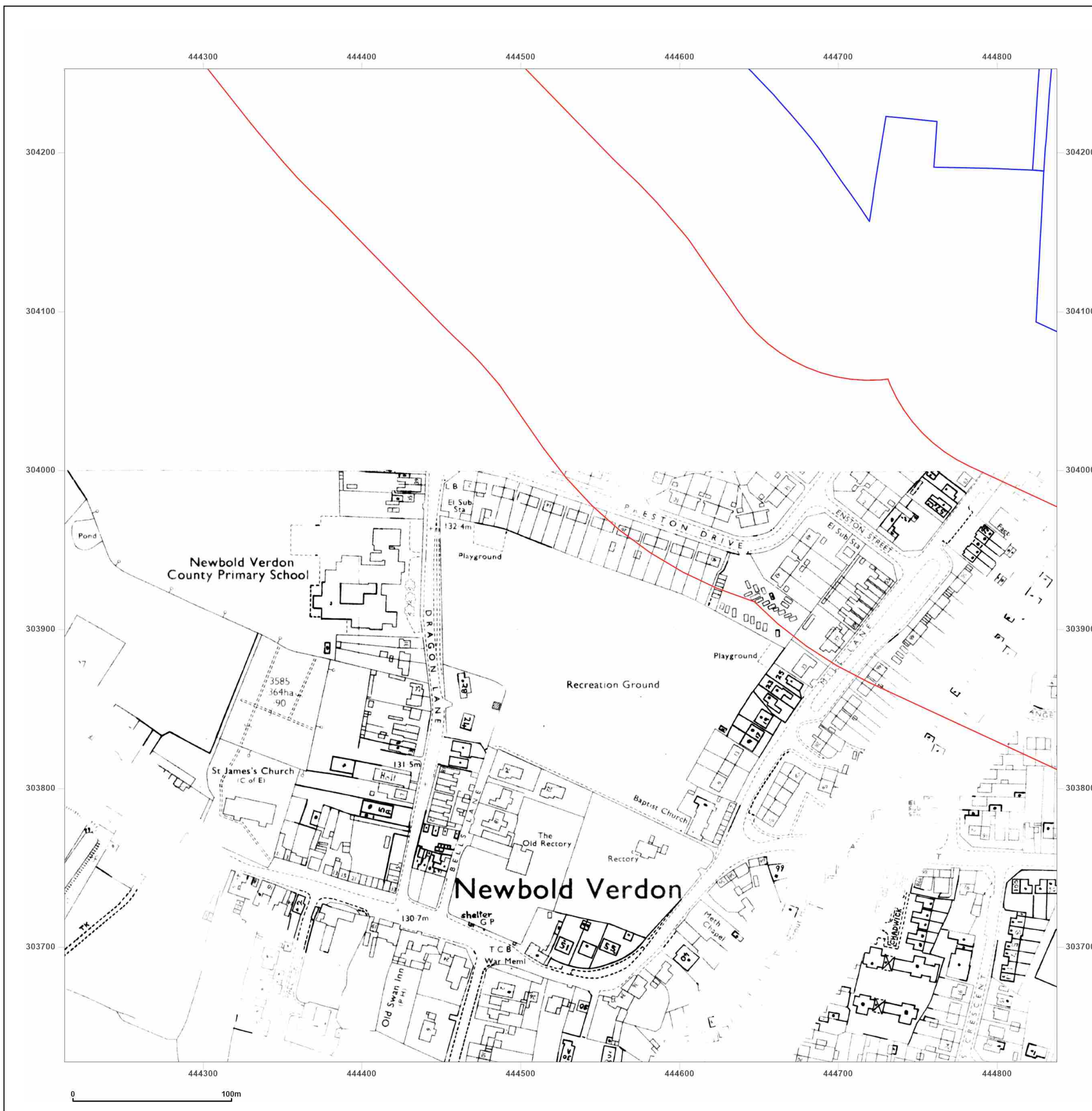


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Grid Ref: 444525, 303940

Map Name: National Grid

Map date: 1991-1994

Scale: 1:2,500

Printed at: 1:2,500



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

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

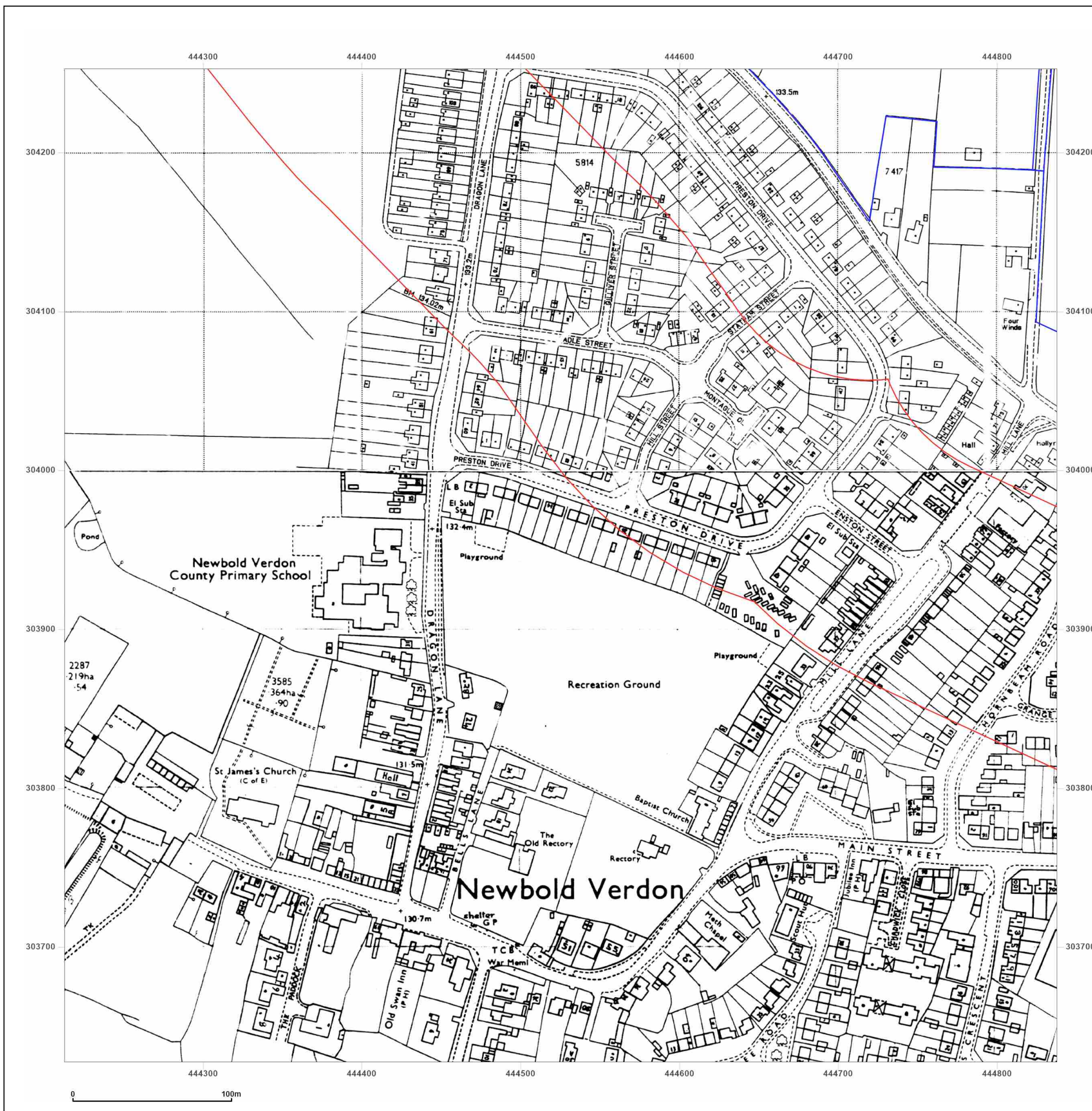


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Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_1
Grid Ref: 444525, 303940

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



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Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_2
Grid Ref: 444525, 304565

Map Name: County Series

Map date: 1886

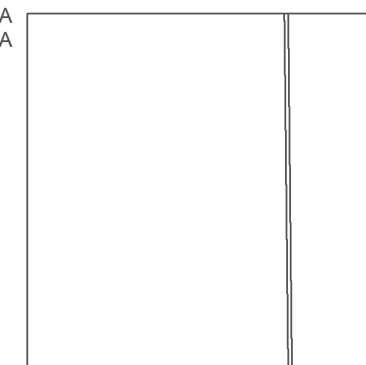
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1886
Revised 1886
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1886
Revised 1886
Edition N/A
Copyright N/A
Levelled N/A

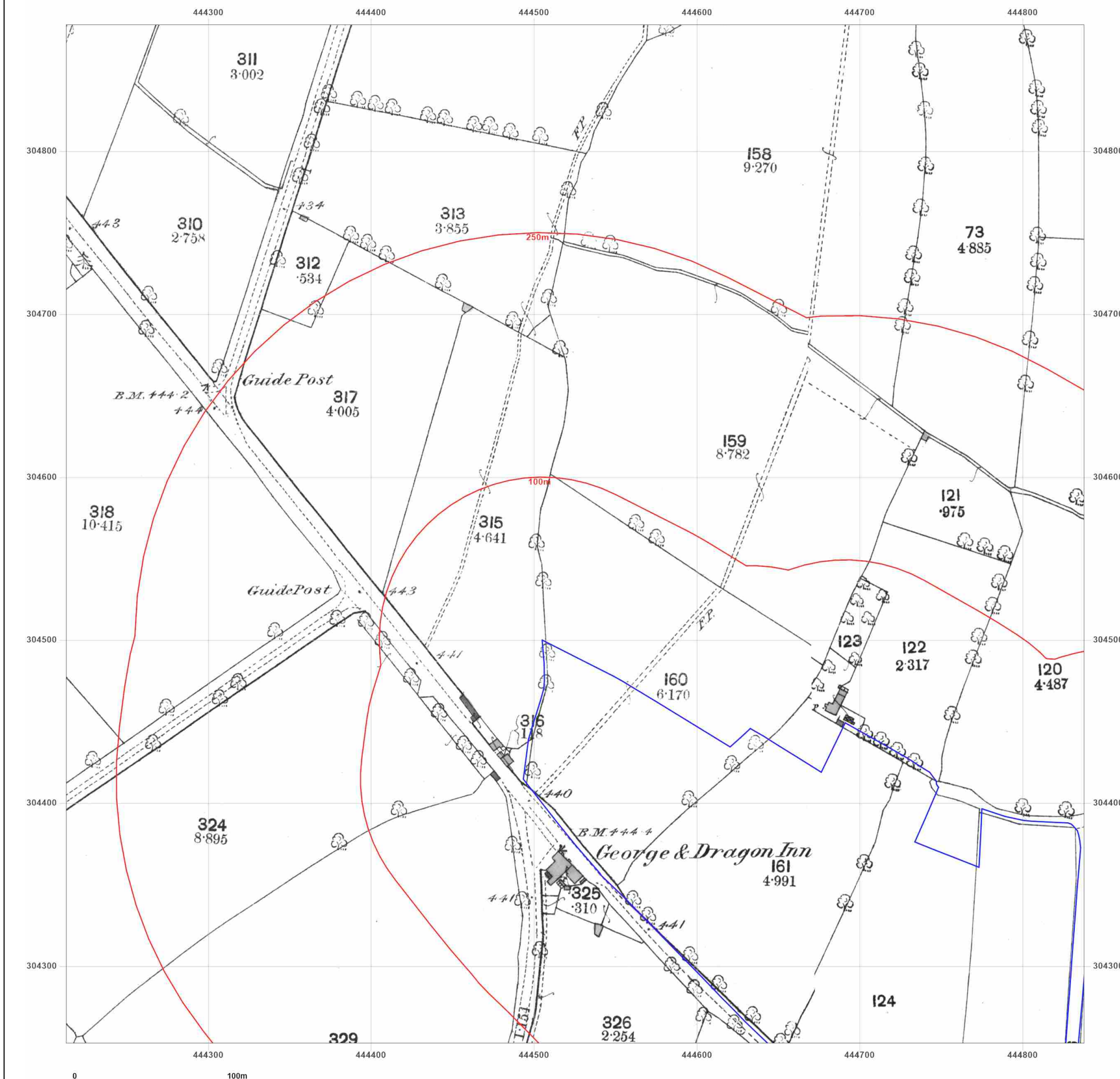


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Site Details:

LAND AT BARLESTONE ROAD,
NEWBOLD VERDON, LE9 9NE

Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_2
Grid Ref: 444525, 304565

Map Name: County Series

Map date: 1903

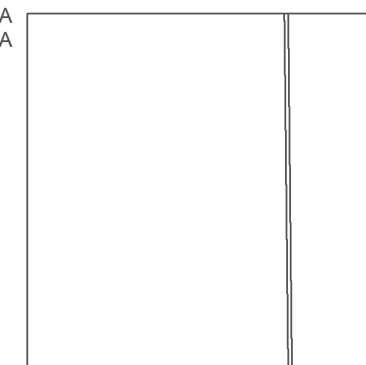
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1903
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1903
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

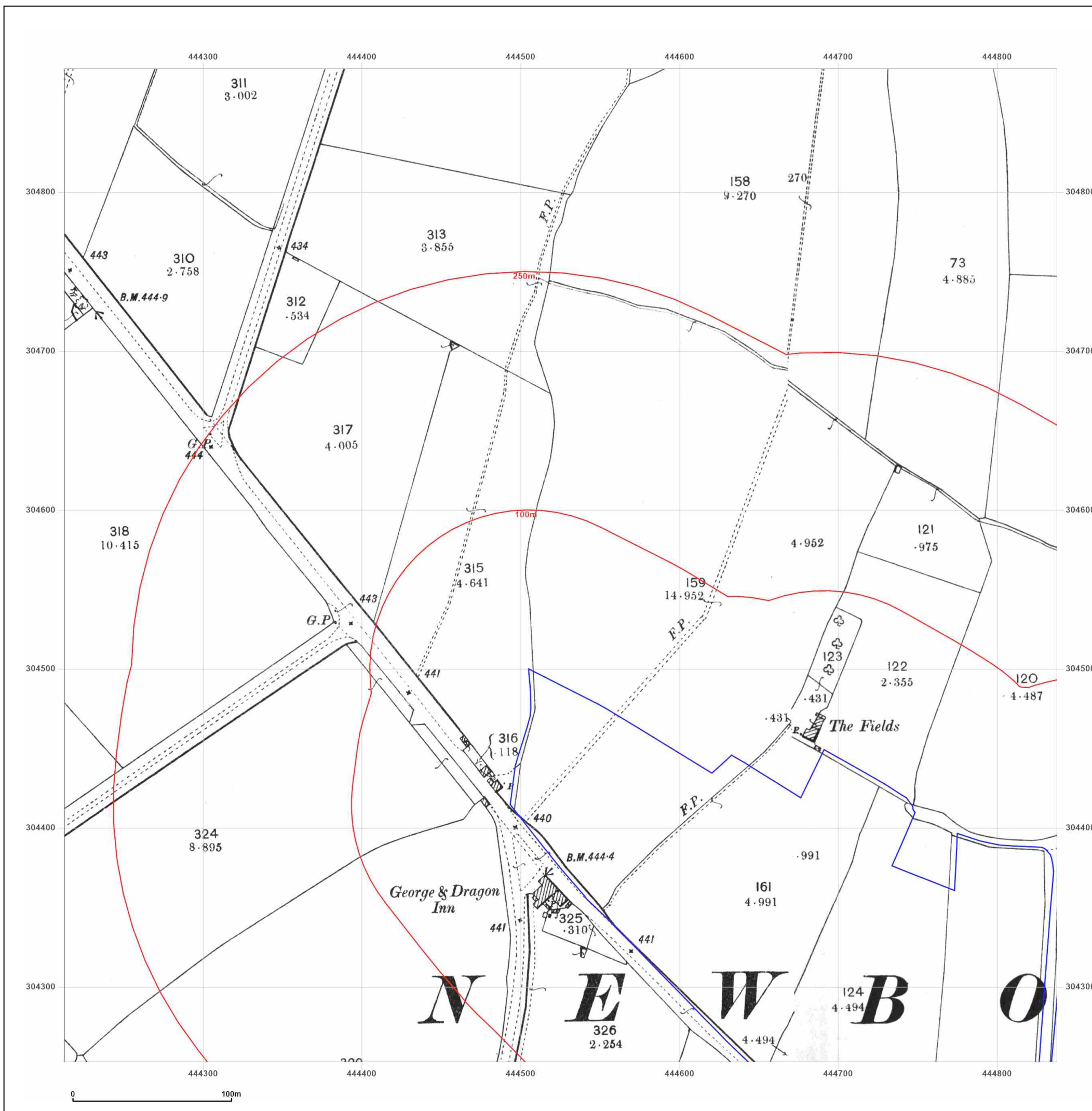


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Site Details:

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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_2
Grid Ref: 444525, 304565

Map Name: County Series

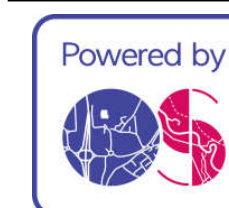
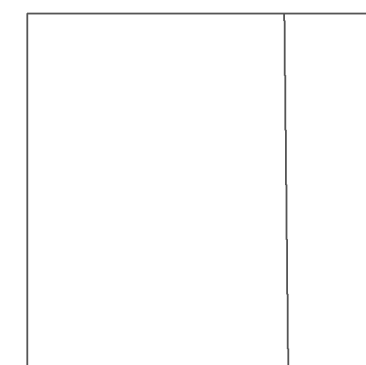
Map date: 1915

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1915
Revised 1915
Edition N/A
Copyright N/A
Levelled N/A

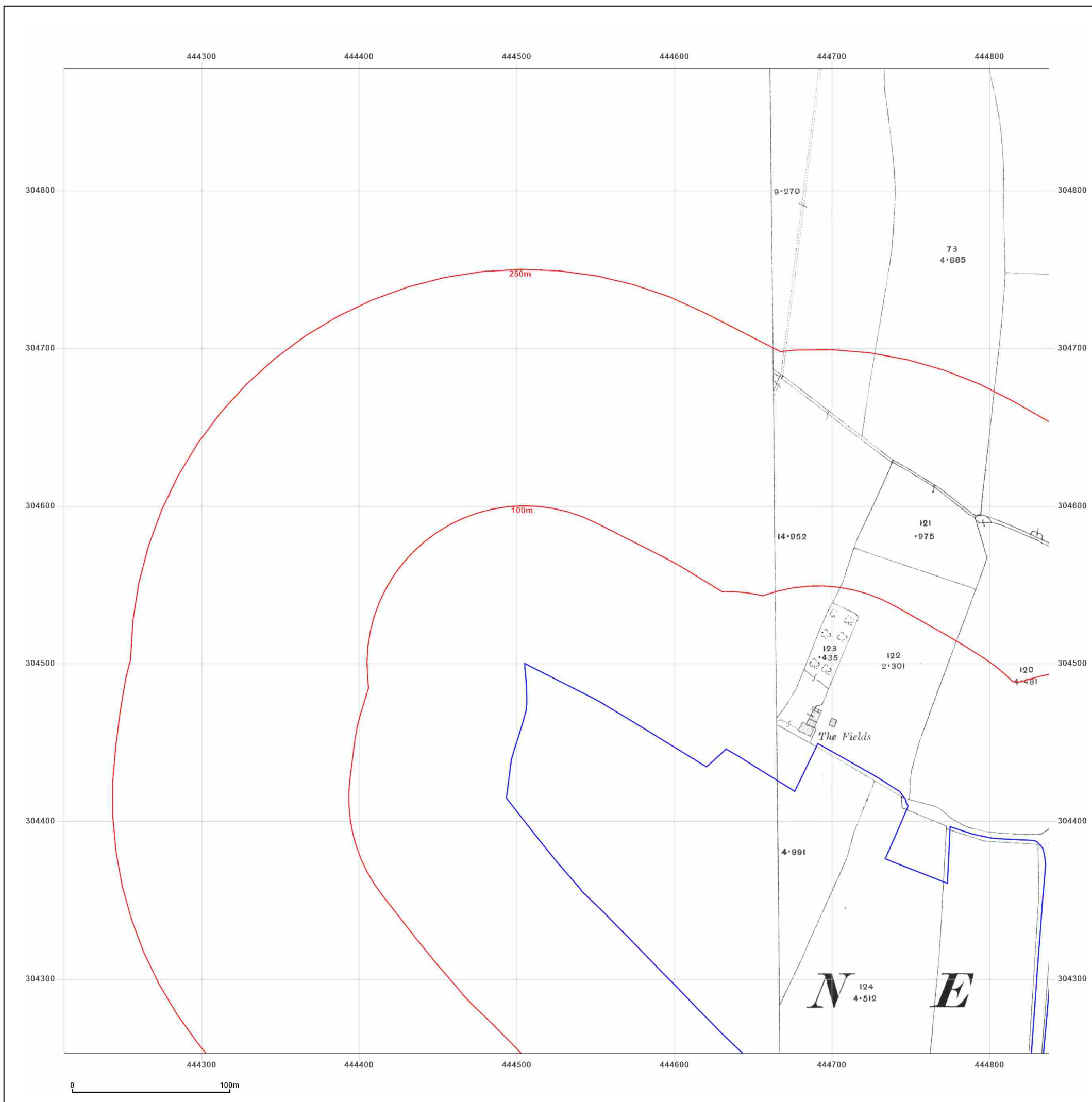


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Site Details:

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NEWBOLD VERDON, LE9 9NE

Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_2
Grid Ref: 444525, 304565

Map Name: County Series

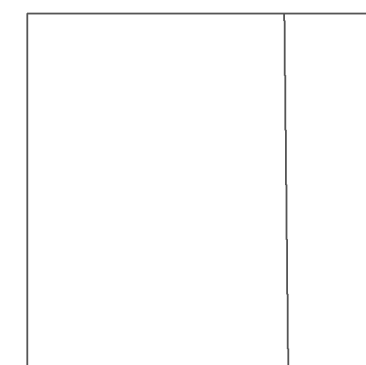
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Scale: 1:2,500

Printed at: 1:2,500



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

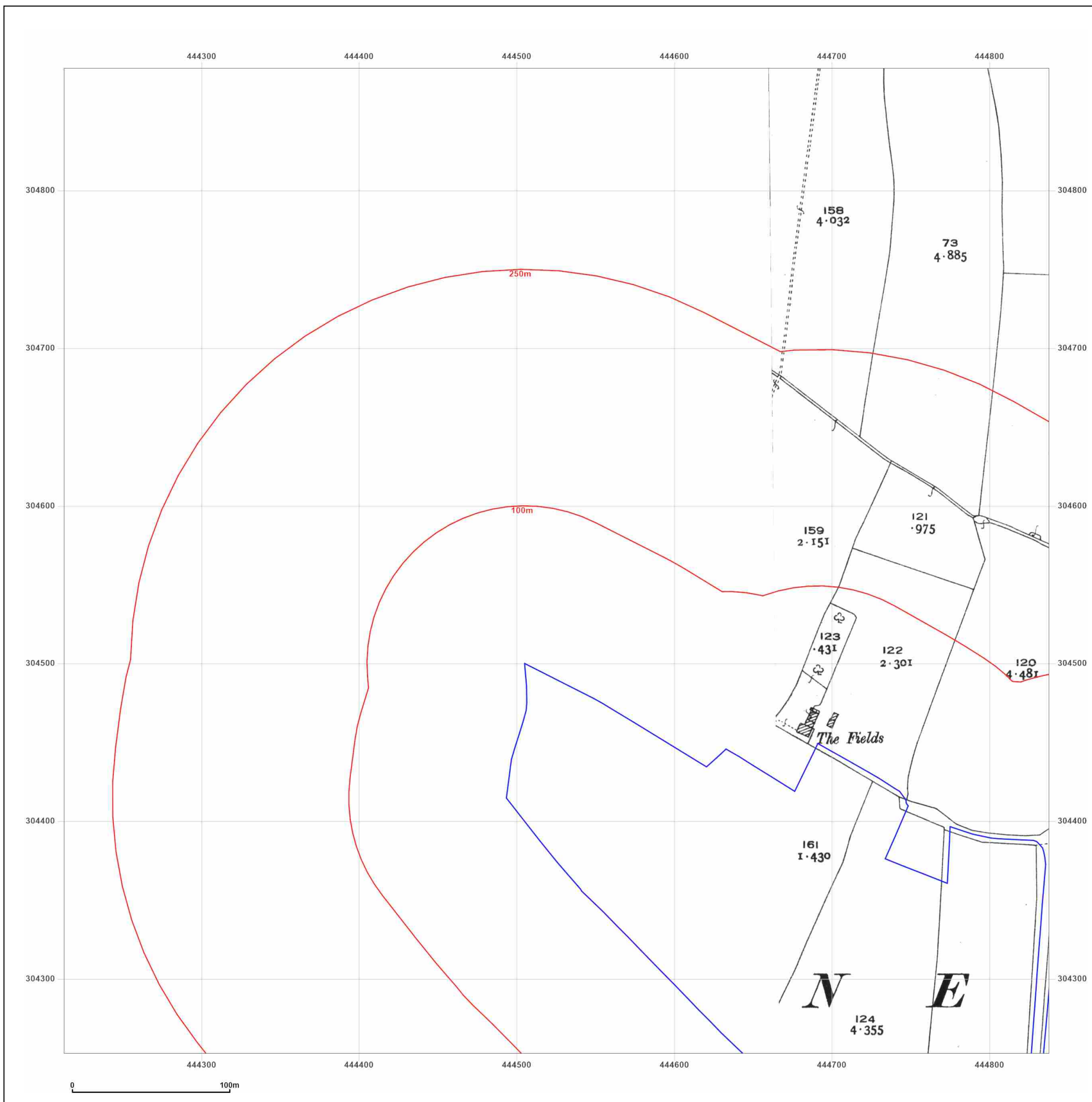


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Site Details:

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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_2
Grid Ref: 444525, 304565

Map Name: National Grid

Map date: 1958

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1958
Revised 1958
Edition N/A
Copyright 1959
Levelled 1949

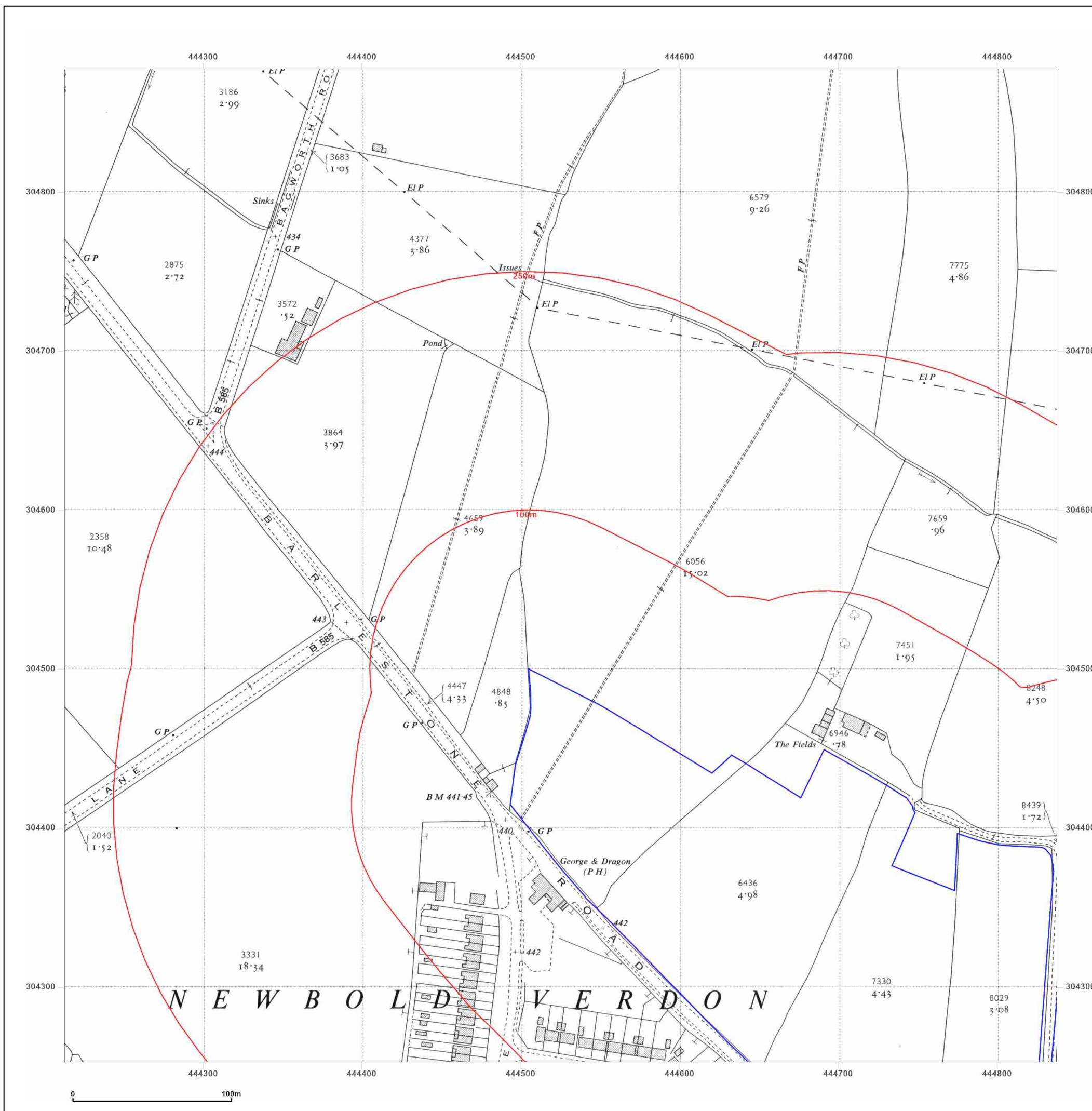


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Site Details:

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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_2
Grid Ref: 444525, 304565

Map Name: National Grid

Map date: 1963

Scale: 1:2,500

Printed at: 1:2,500



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

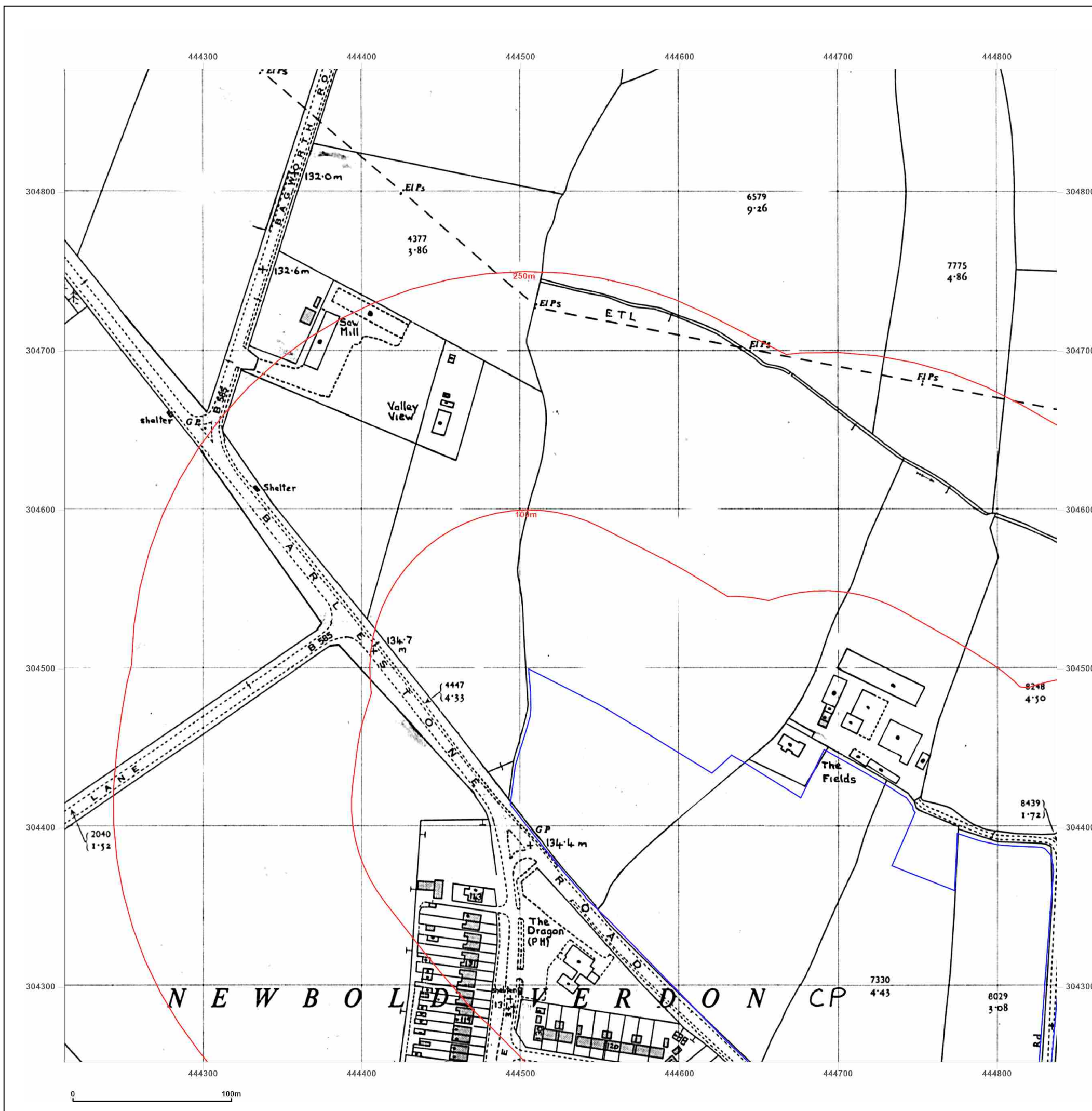


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_2
Grid Ref: 444525, 304565

Map Name: National Grid

Map date: 1982

Scale: 1:2,500

Printed at: 1:2,500



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

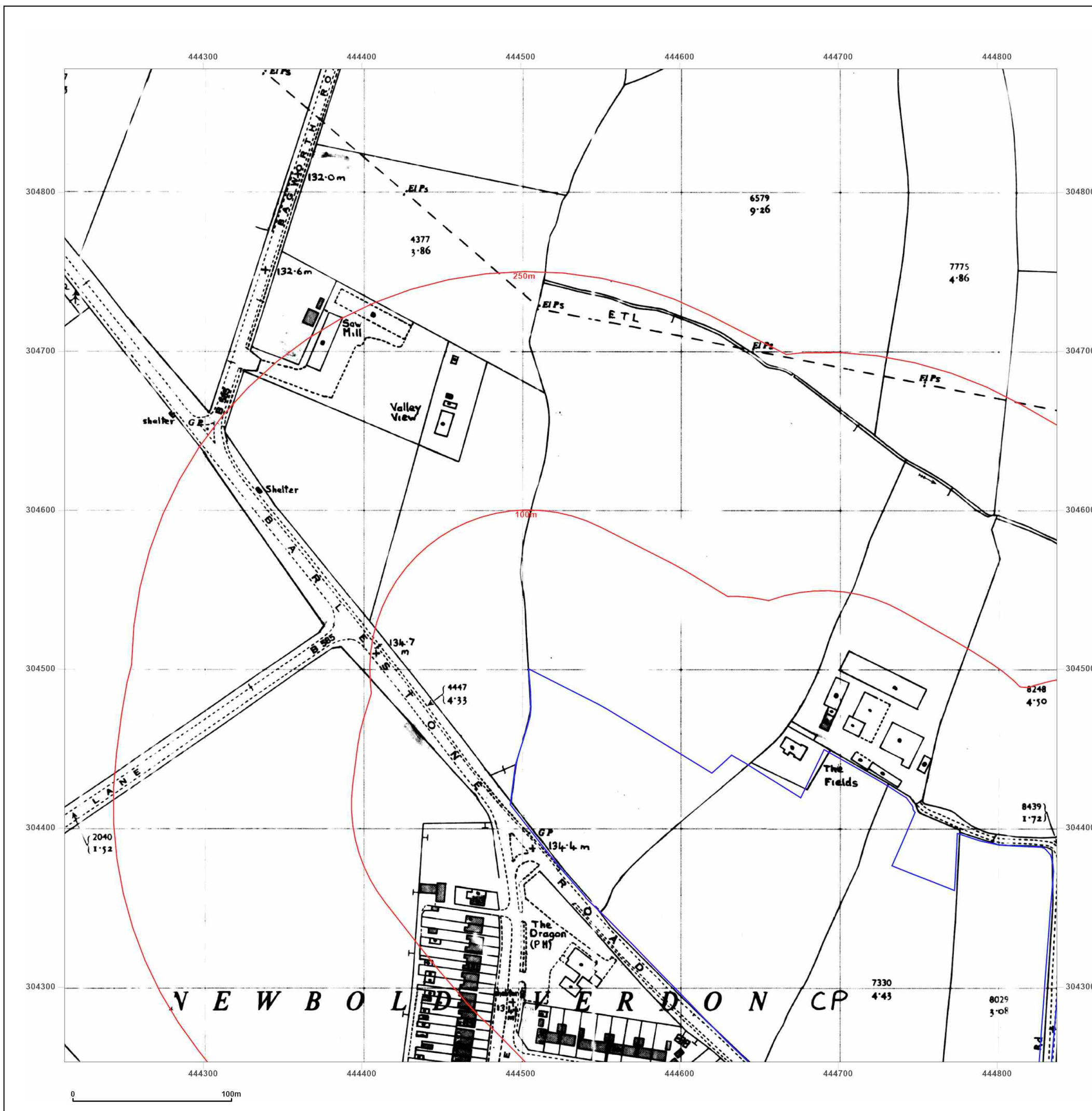


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Site Details:

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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_1_2
Grid Ref: 444525, 304565

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

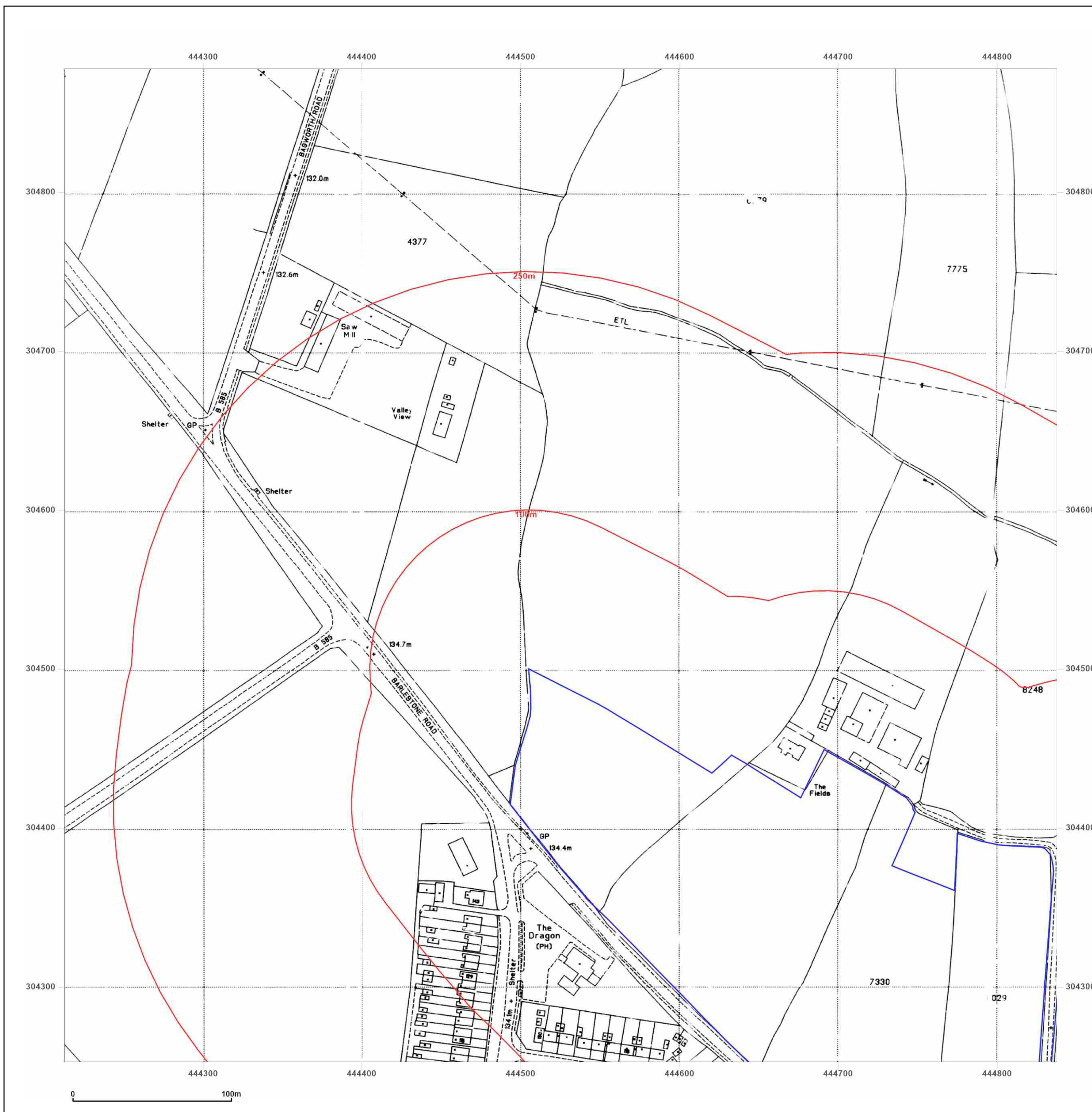


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Site Details:

LAND AT BARLESTONE ROAD,
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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_1
Grid Ref: 445150, 303940

Map Name: County Series

Map date: 1886

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1886
Revised 1886
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1886
Revised 1886
Edition N/A
Copyright N/A
Levelled N/A

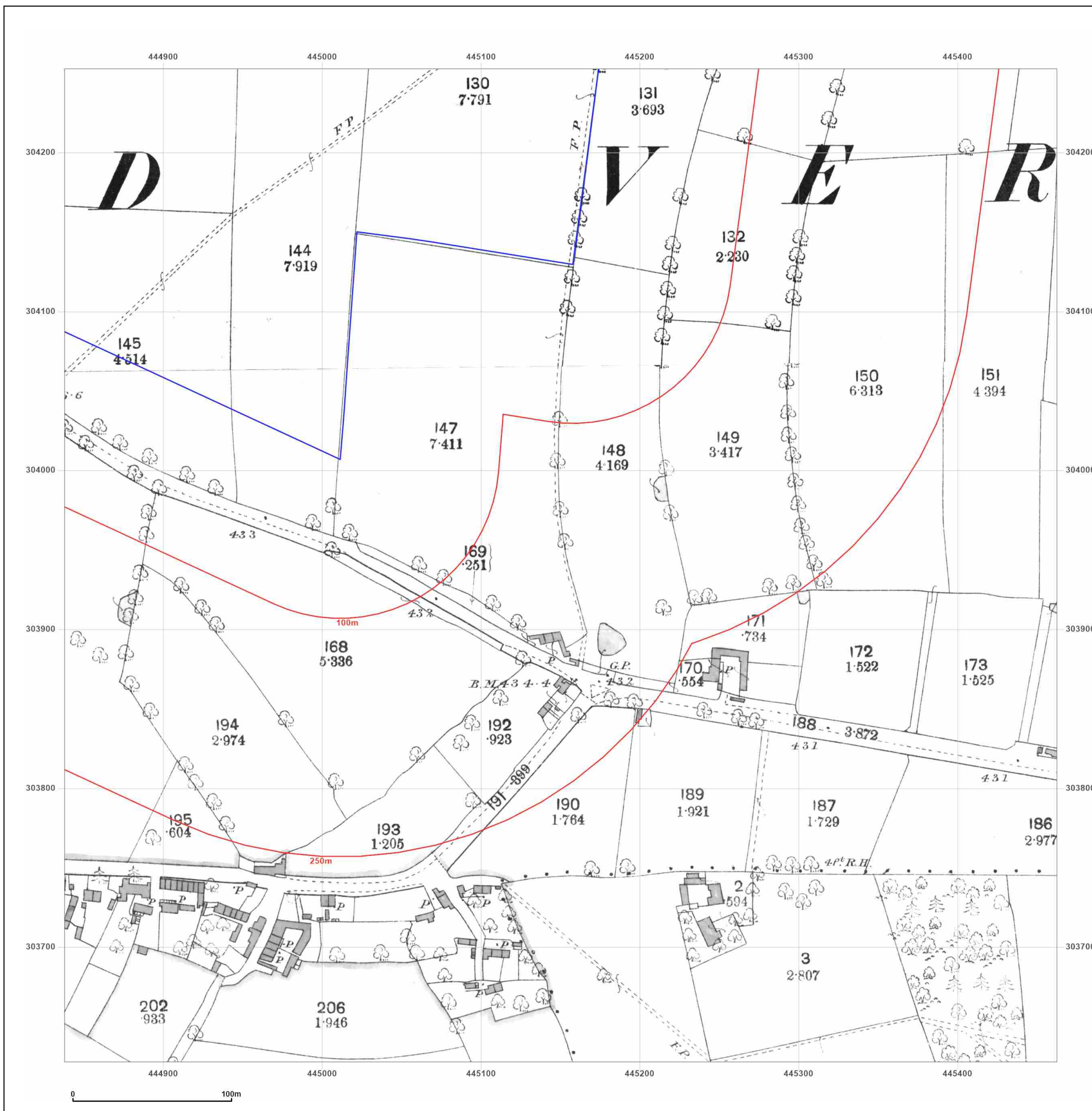


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Site Details:

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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_1
Grid Ref: 445150, 303940

Map Name: County Series

Map date: 1903

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1903
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1903
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

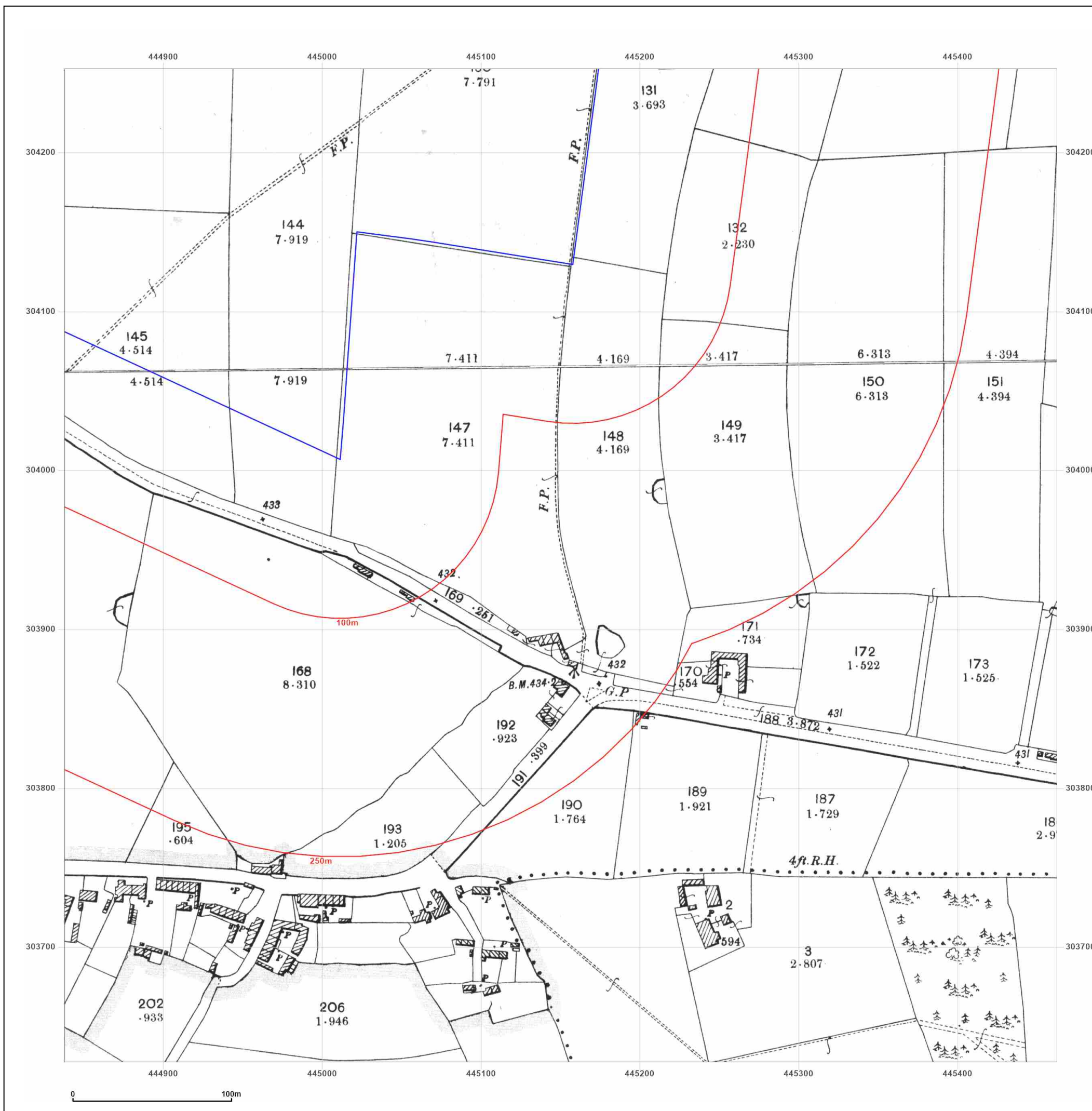


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_1
Grid Ref: 445150, 303940

Map Name: County Series

Map date: 1930

Scale: 1:2,500

Printed at: 1:2,500



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

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

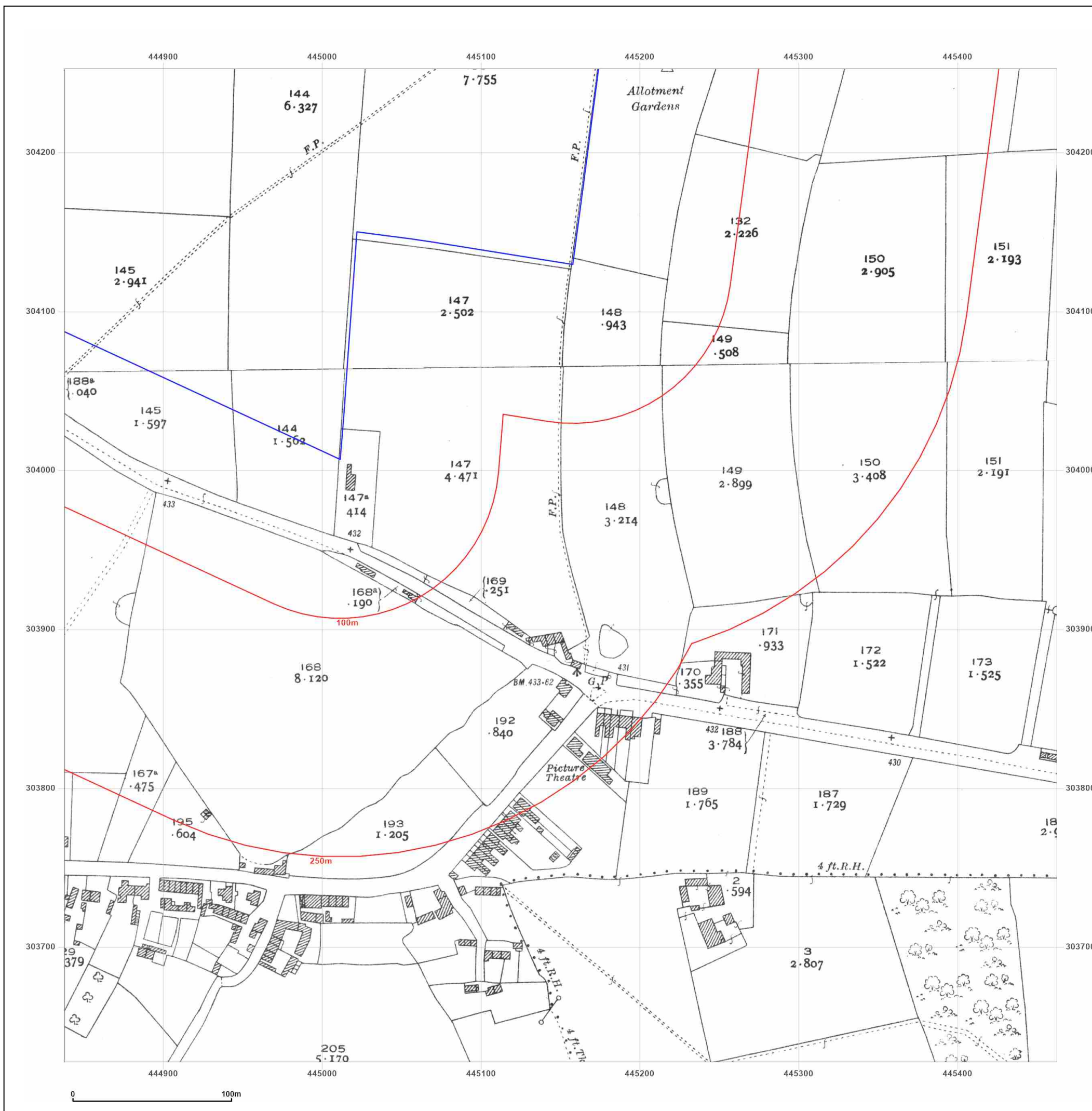


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_1
Grid Ref: 445150, 303940

Map Name: National Grid

Map date: 1958

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1958
Revised 1958
Edition N/A
Copyright 1959
Levelled 1949

Surveyed 1958
Revised 1958
Edition N/A
Copyright 1959
Levelled 1927

Surveyed 1958
Revised 1958
Edition N/A
Copyright 1959
Levelled 1949

Surveyed 1958
Revised 1958
Edition N/A
Copyright 1959
Levelled 1949

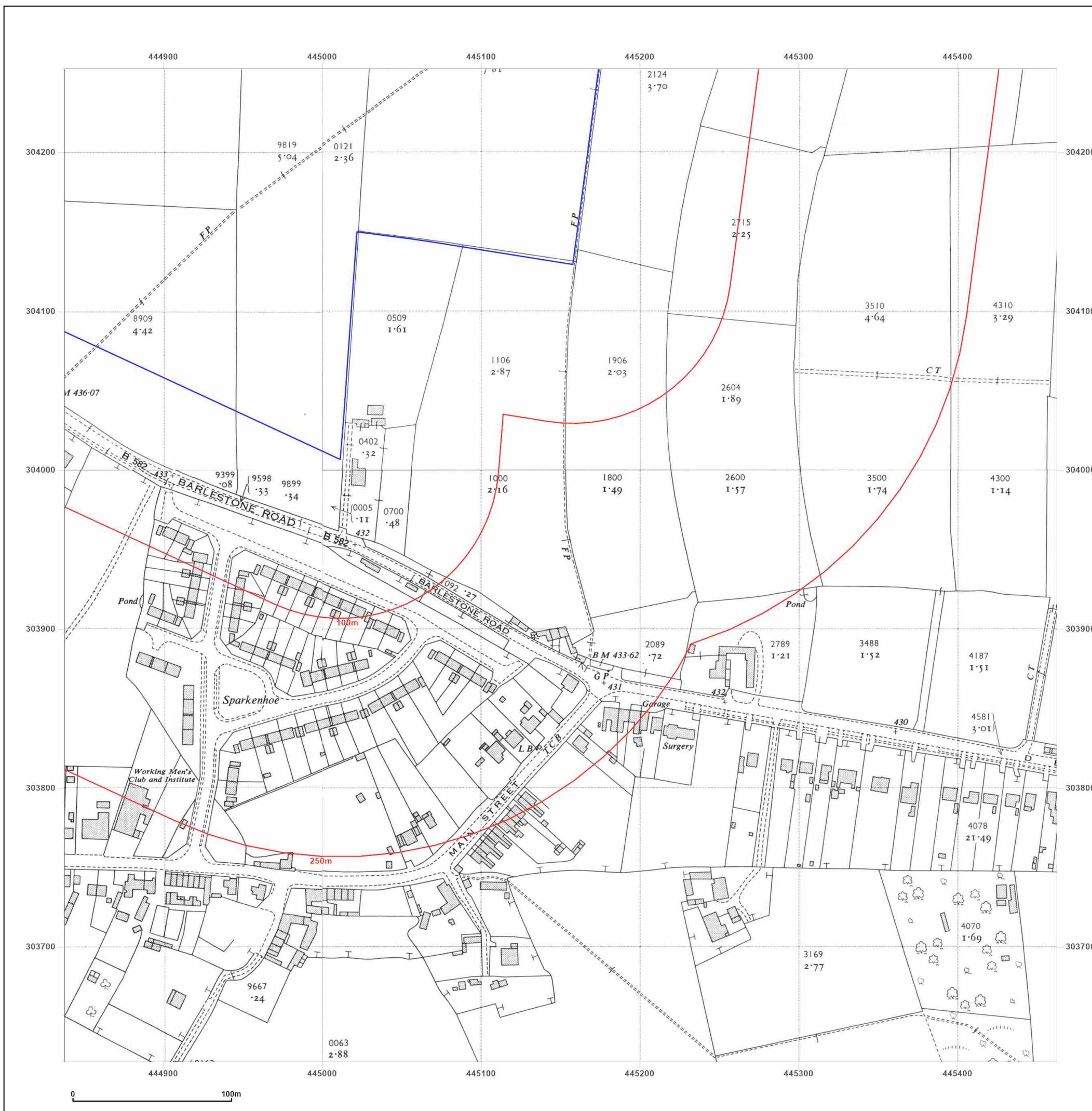


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_1
Grid Ref: 445150, 303940

Map Name: National Grid

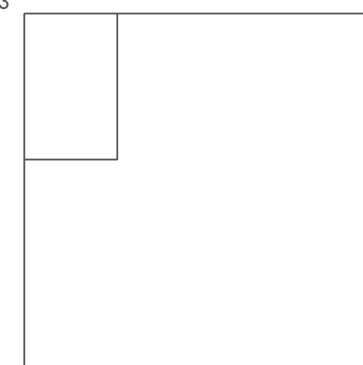
Map date: 1963

Scale: 1:2,500

Printed at: 1:2,500



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

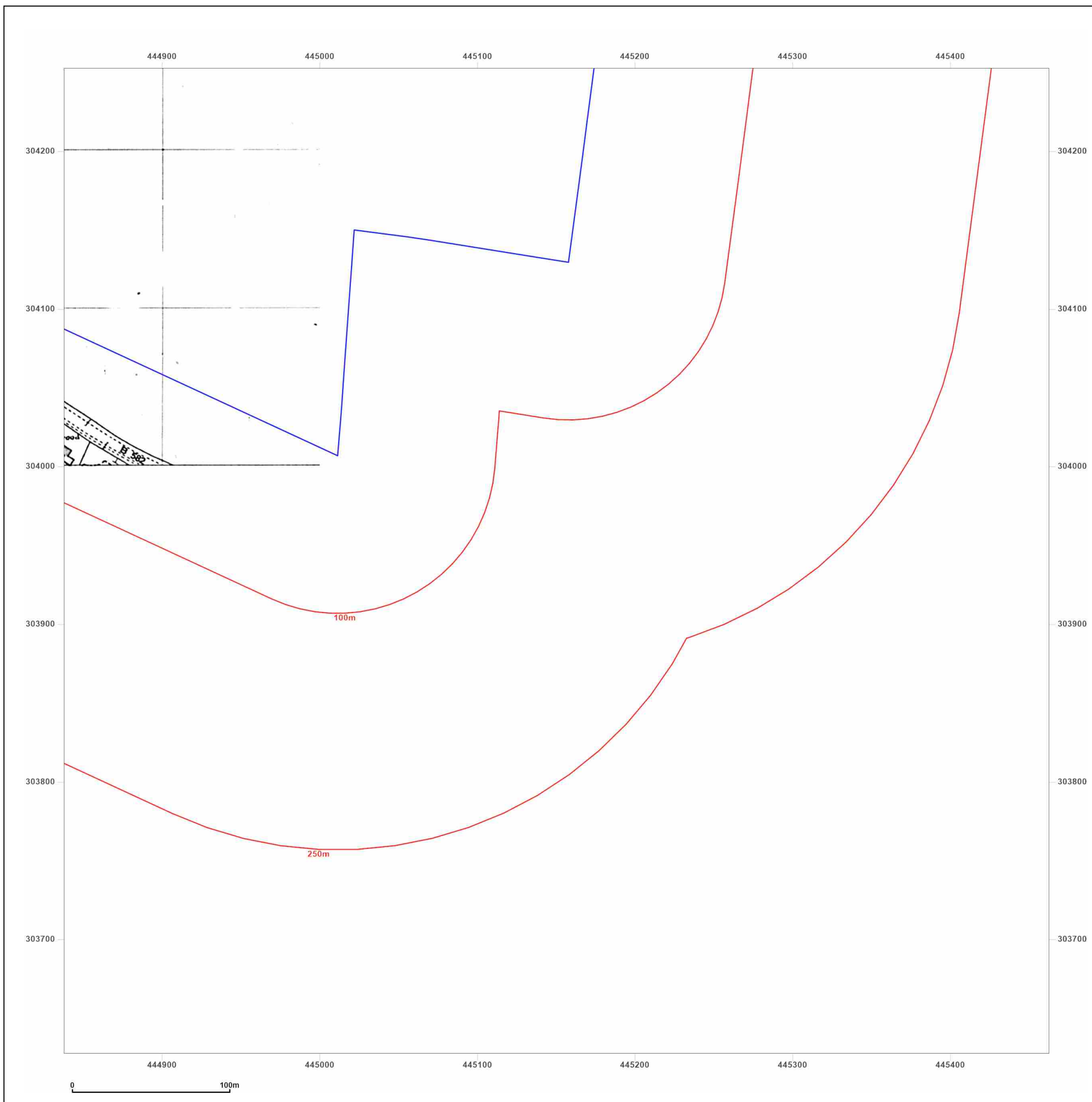


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Site Details:

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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_1
Grid Ref: 445150, 303940

Map Name: National Grid

Map date: 1972

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
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Edition N/A
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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_1
Grid Ref: 445150, 303940

Map Name: National Grid

Map date: 1972

Scale: 1:2,500

Printed at: 1:2,500



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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_1
Grid Ref: 445150, 303940

Map Name: National Grid

Map date: 1980

Scale: 1:2,500

Printed at: 1:2,500



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

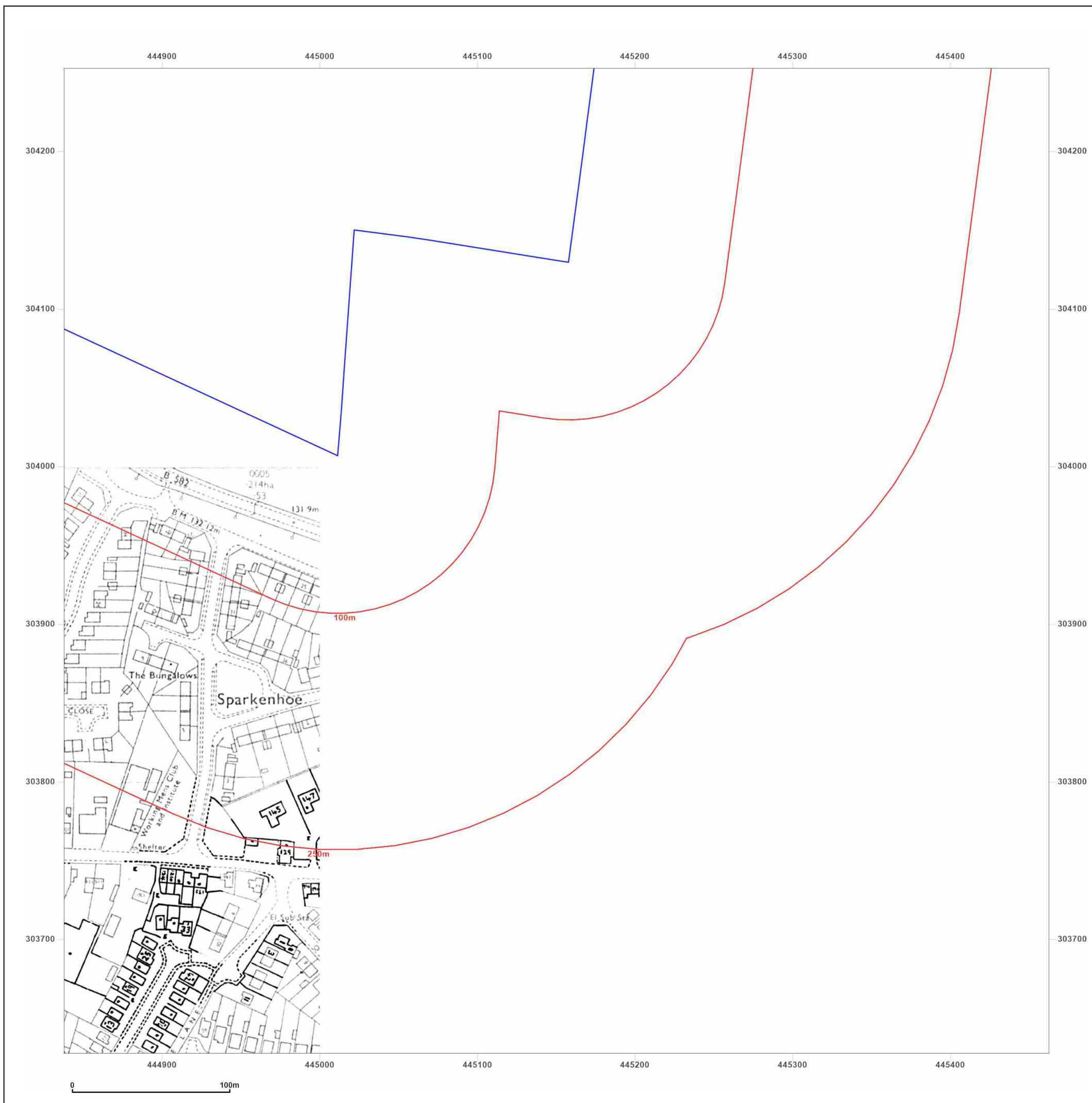


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_1
Grid Ref: 445150, 303940

Map Name: National Grid

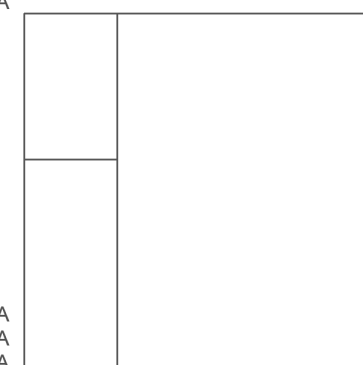
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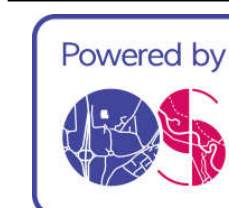
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1984
Levelled 1963

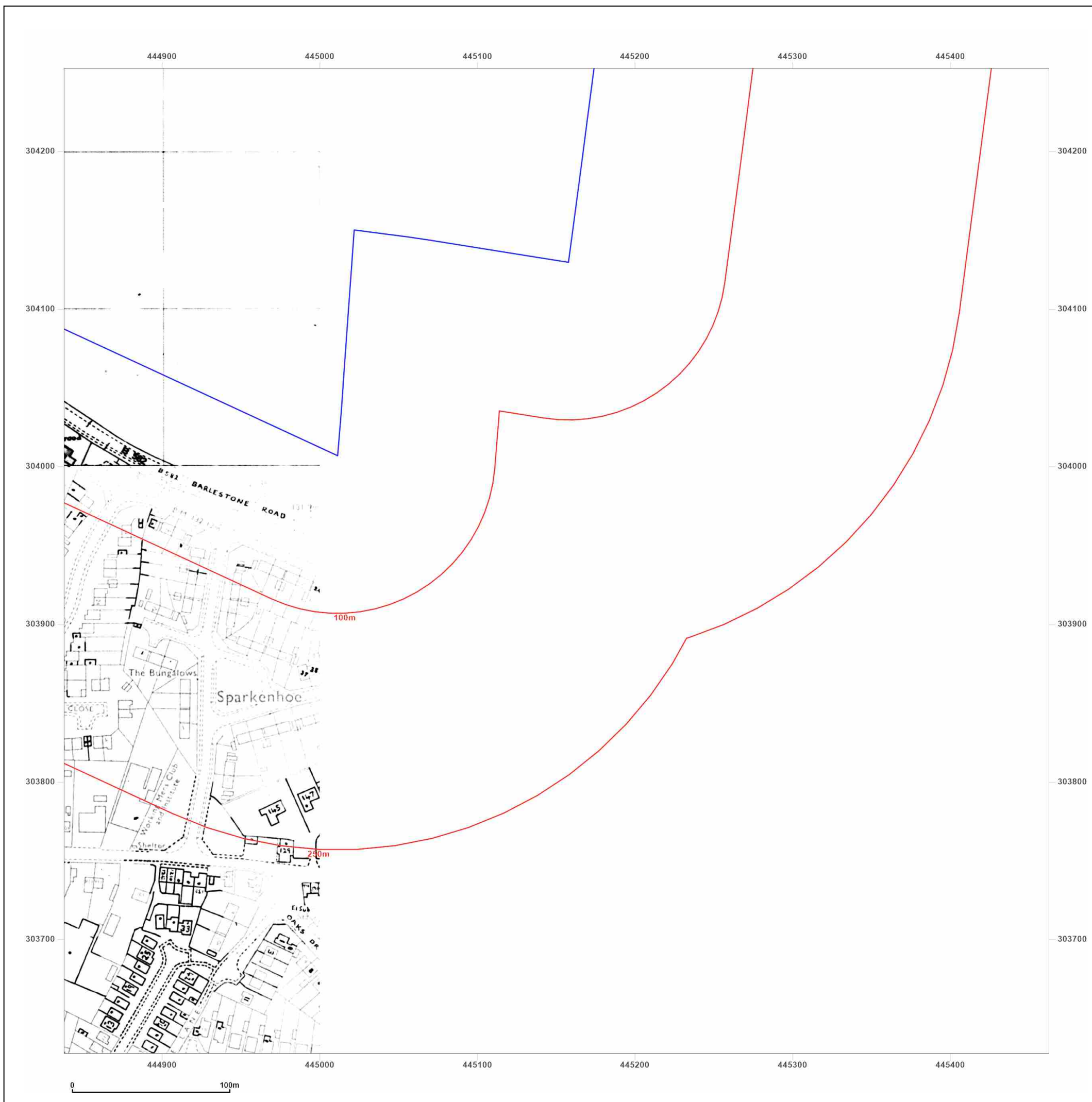


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_1
Grid Ref: 445150, 303940

Map Name: National Grid

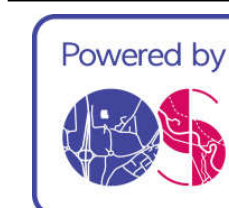
Map date: 1991

Scale: 1:2,500

Printed at: 1:2,500



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

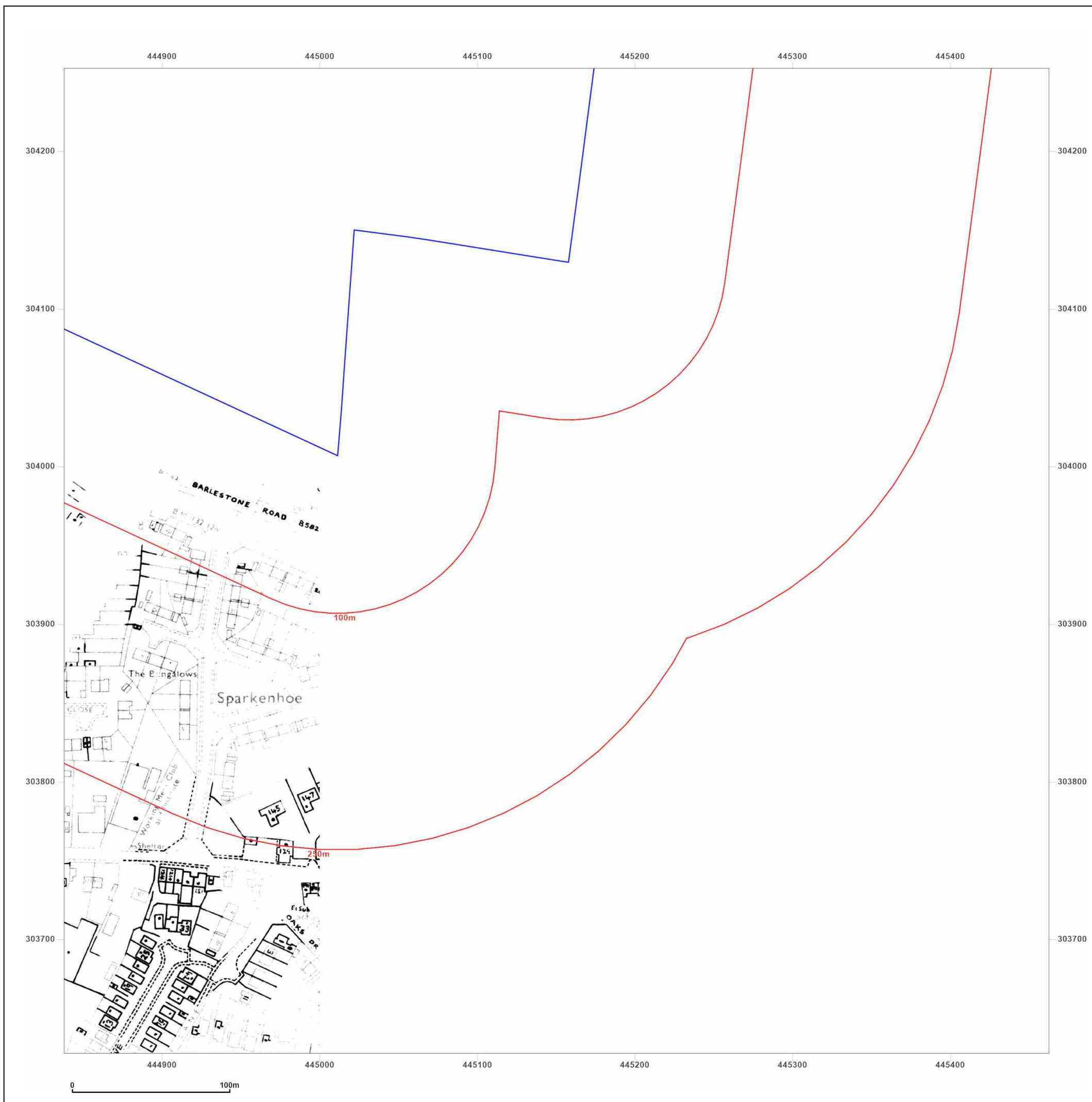


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_1
Grid Ref: 445150, 303940

Map Name: National Grid

Map date: 1991-1994

Scale: 1:2,500

Printed at: 1:2,500



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

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

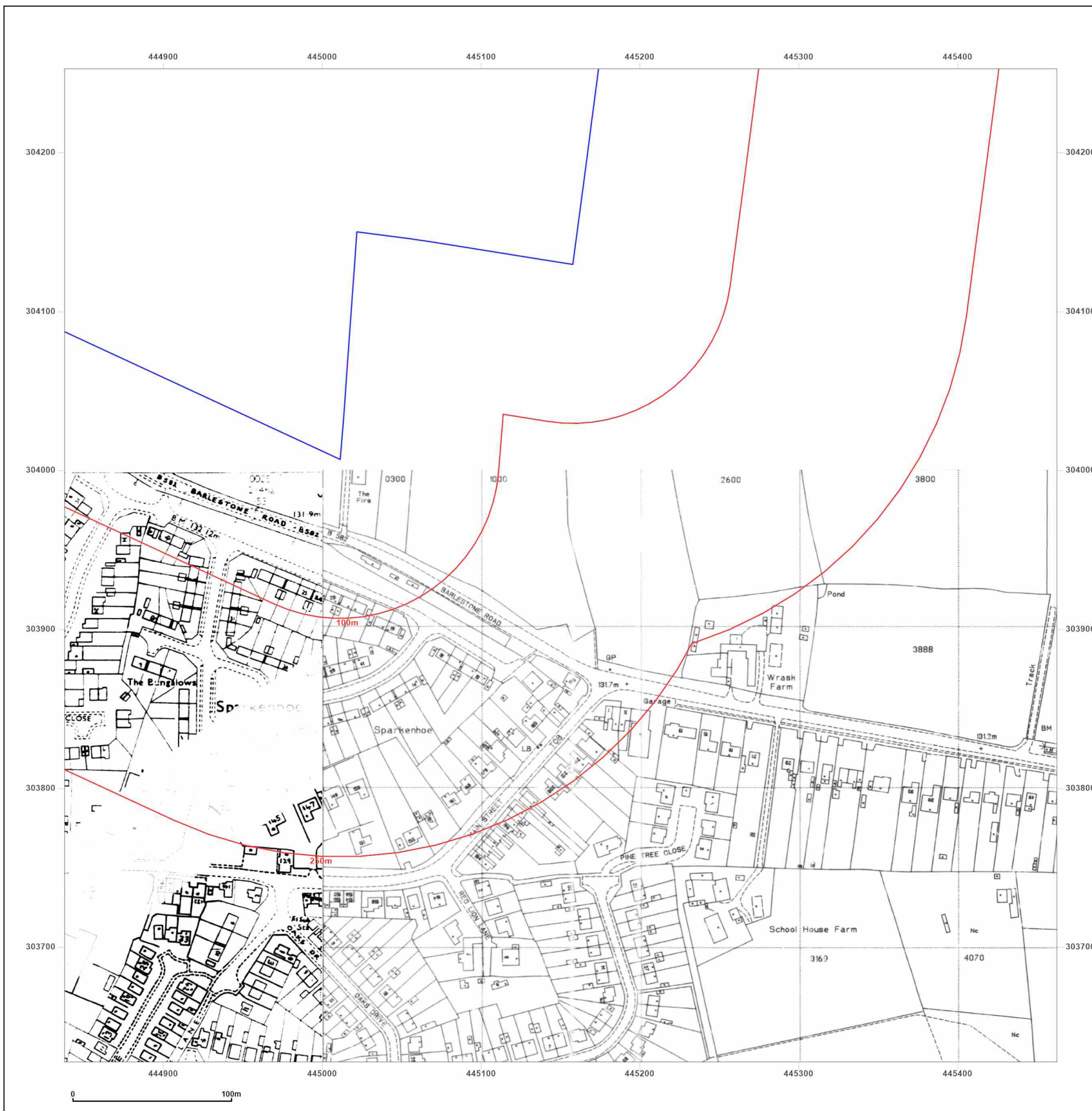


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_2
Grid Ref: 445150, 304565

Map Name: County Series

Map date: 1886

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1886
Revised 1886
Edition N/A
Copyright N/A
Levelled N/A

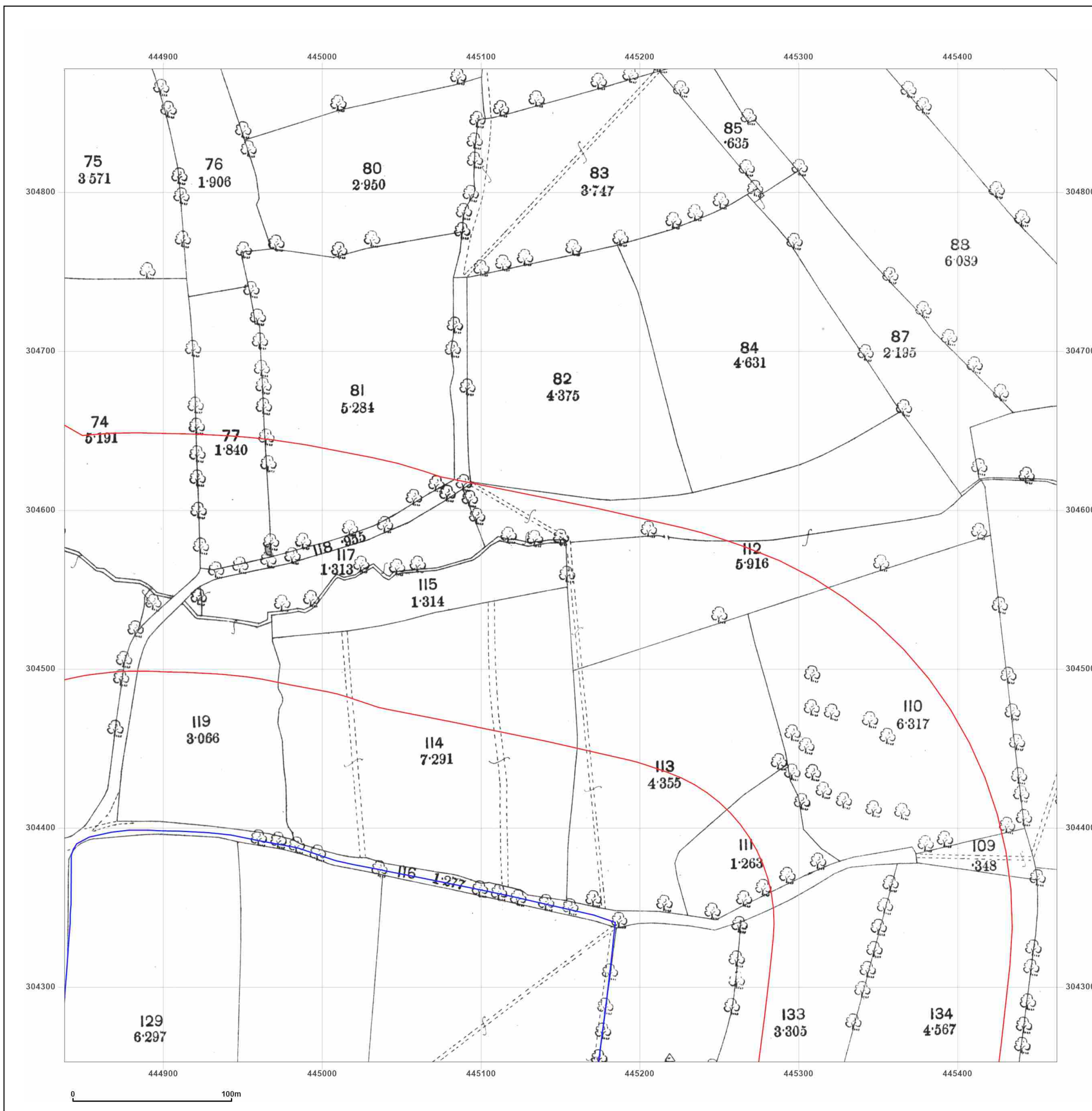


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_2
Grid Ref: 445150, 304565

Map Name: County Series

Map date: 1903

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1903
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

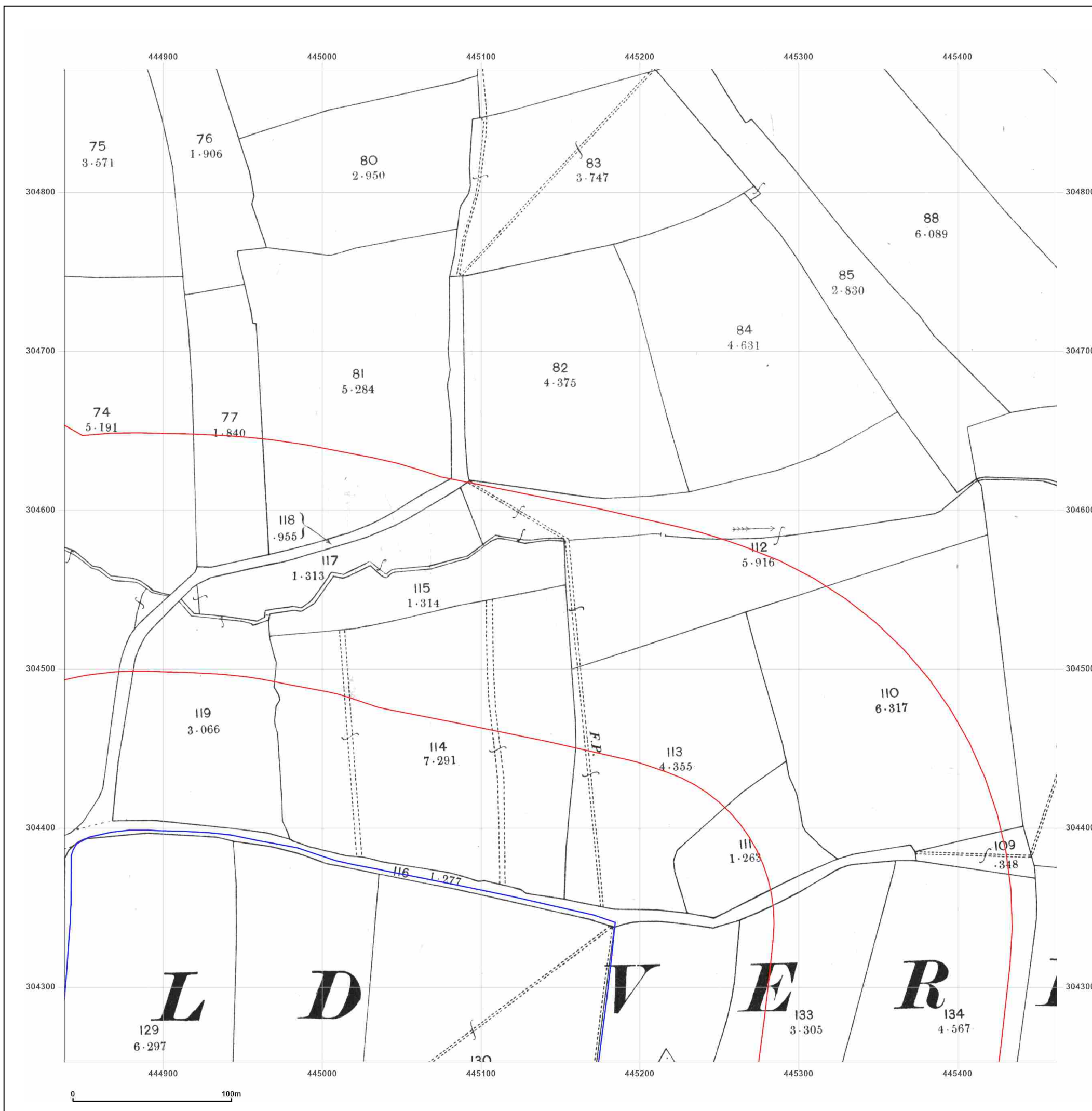


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_2
Grid Ref: 445150, 304565

Map Name: County Series

Map date: 1915

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1915
Revised 1915
Edition N/A
Copyright N/A
Levelled N/A

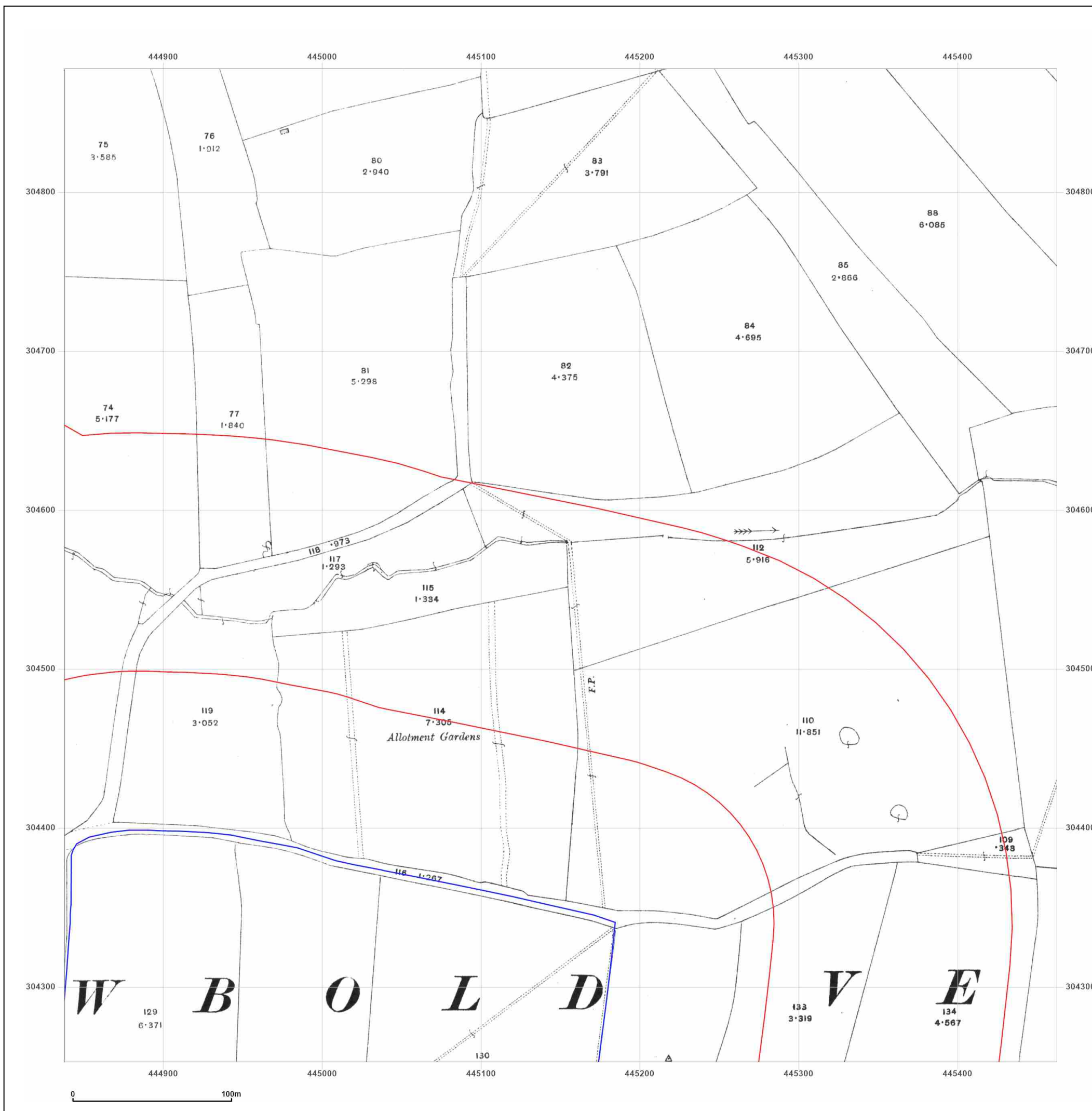


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Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_2
Grid Ref: 445150, 304565

Map Name: County Series

Map date: 1930

Scale: 1:2,500

Printed at: 1:2,500



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

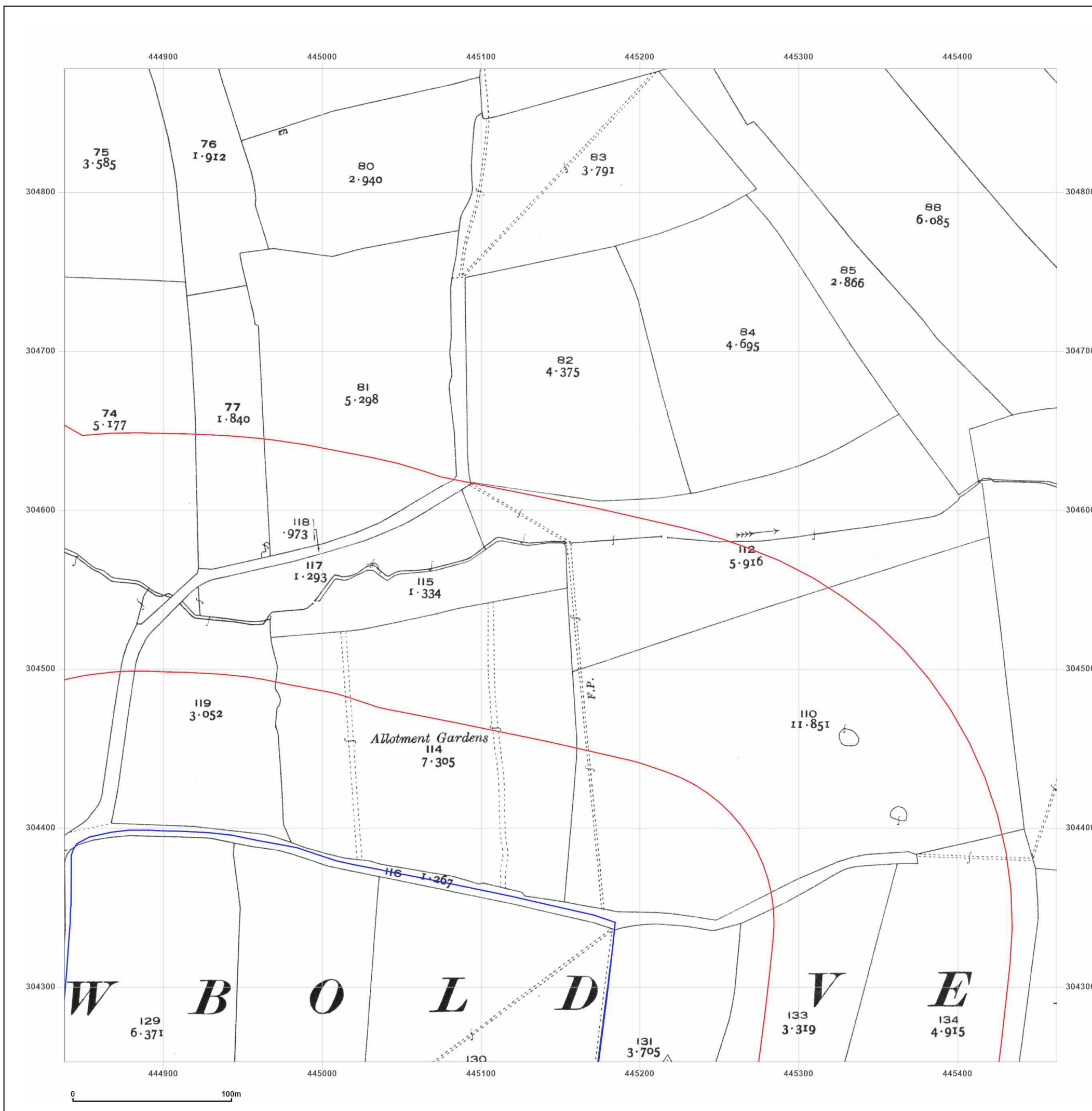


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NEWBOLD VERDON, LE9 9NE

Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_2
Grid Ref: 445150, 304565

Map Name: National Grid

Map date: 1958

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1958
Revised 1958
Edition N/A
Copyright 1959
Levelled 1949

Surveyed 1958
Revised 1958
Edition N/A
Copyright 1959
Levelled 1927

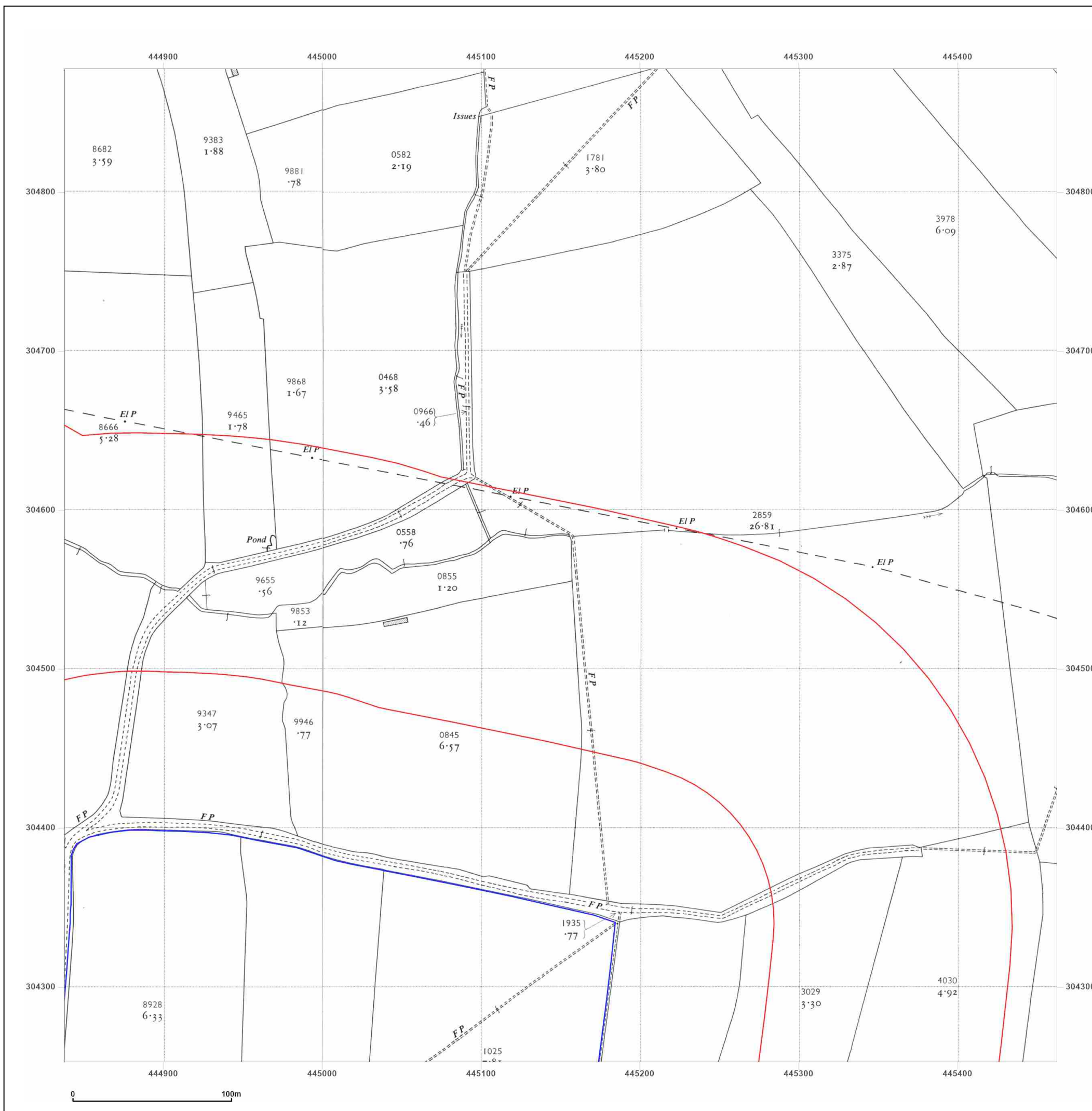


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Production date: 07 September 2023

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Site Details:

LAND AT BARLESTONE ROAD,
NEWBOLD VERDON, LE9 9NE

Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_2
Grid Ref: 445150, 304565

Map Name: National Grid

Map date: 1963

Scale: 1:2,500

Printed at: 1:2,500



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

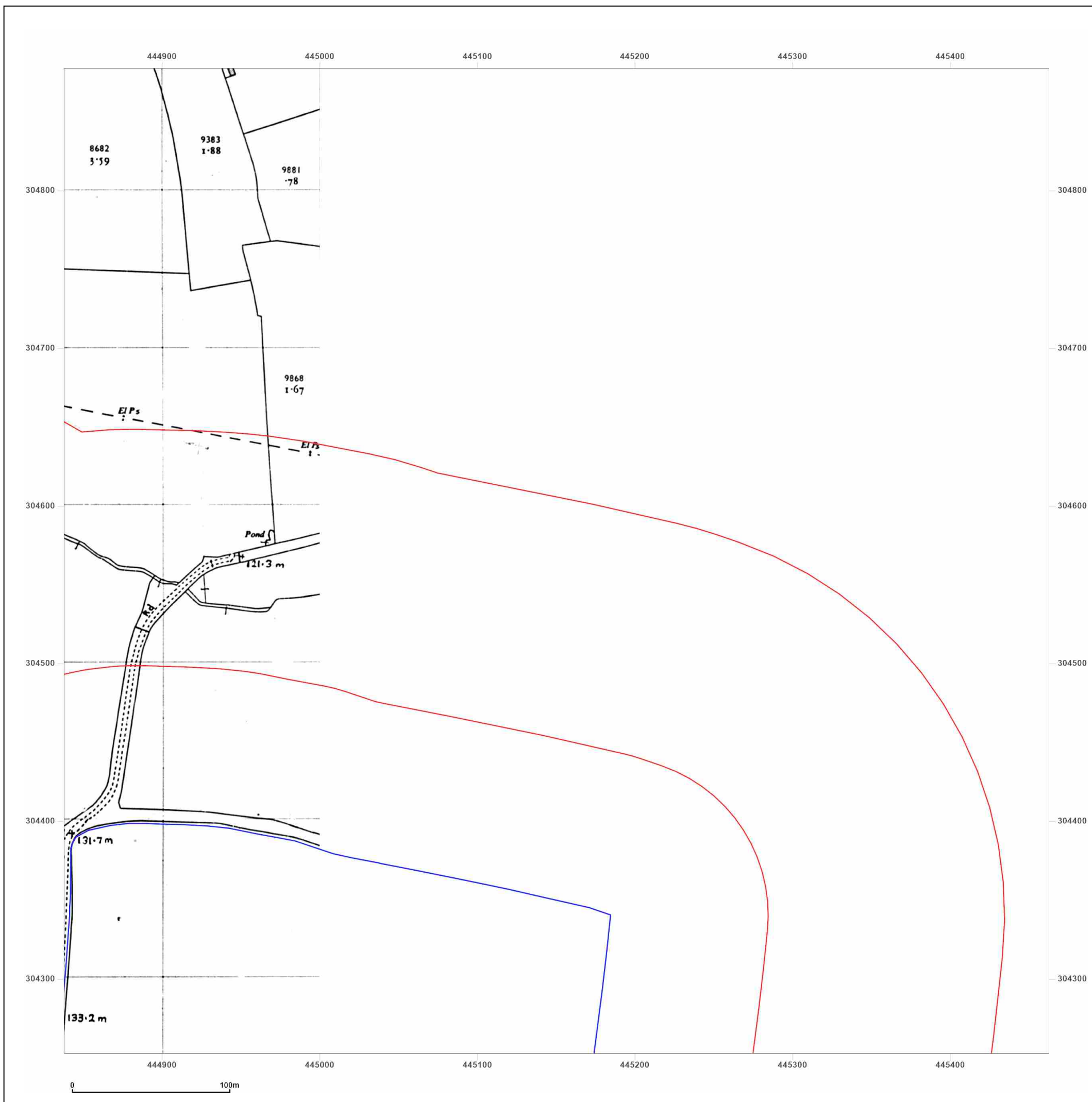


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Site Details:

LAND AT BARLESTONE ROAD,
NEWBOLD VERDON, LE9 9NE

Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_2
Grid Ref: 445150, 304565

Map Name: National Grid

Map date: 1982

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
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Edition N/A
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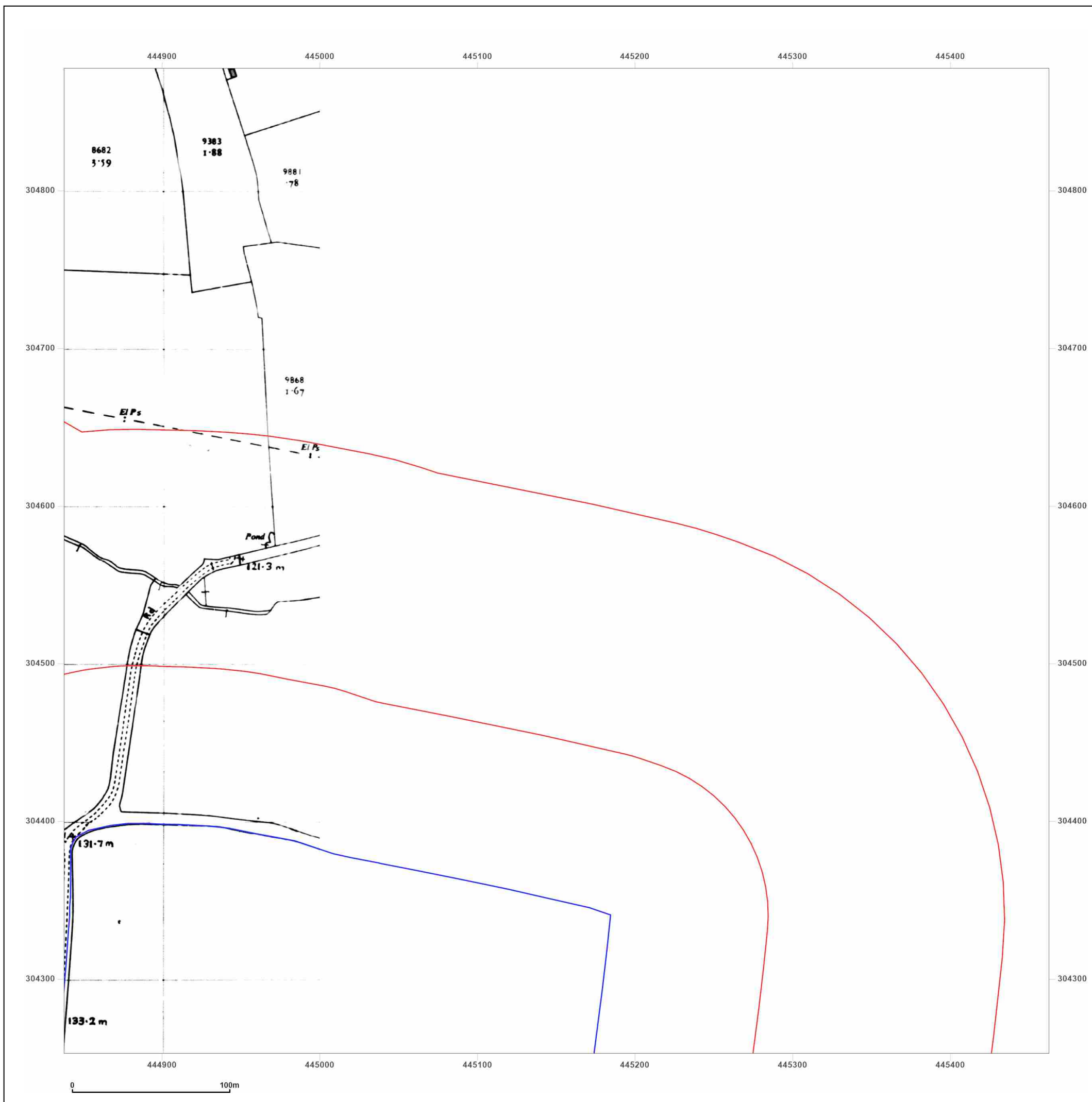


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Site Details:

LAND AT BARLESTONE ROAD,
NEWBOLD VERDON, LE9 9NE

Client Ref: POP00
Report Ref: GS-YHH-D9L-JWA-2JW_LS_2_2
Grid Ref: 445150, 304565

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
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Levelled N/A

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

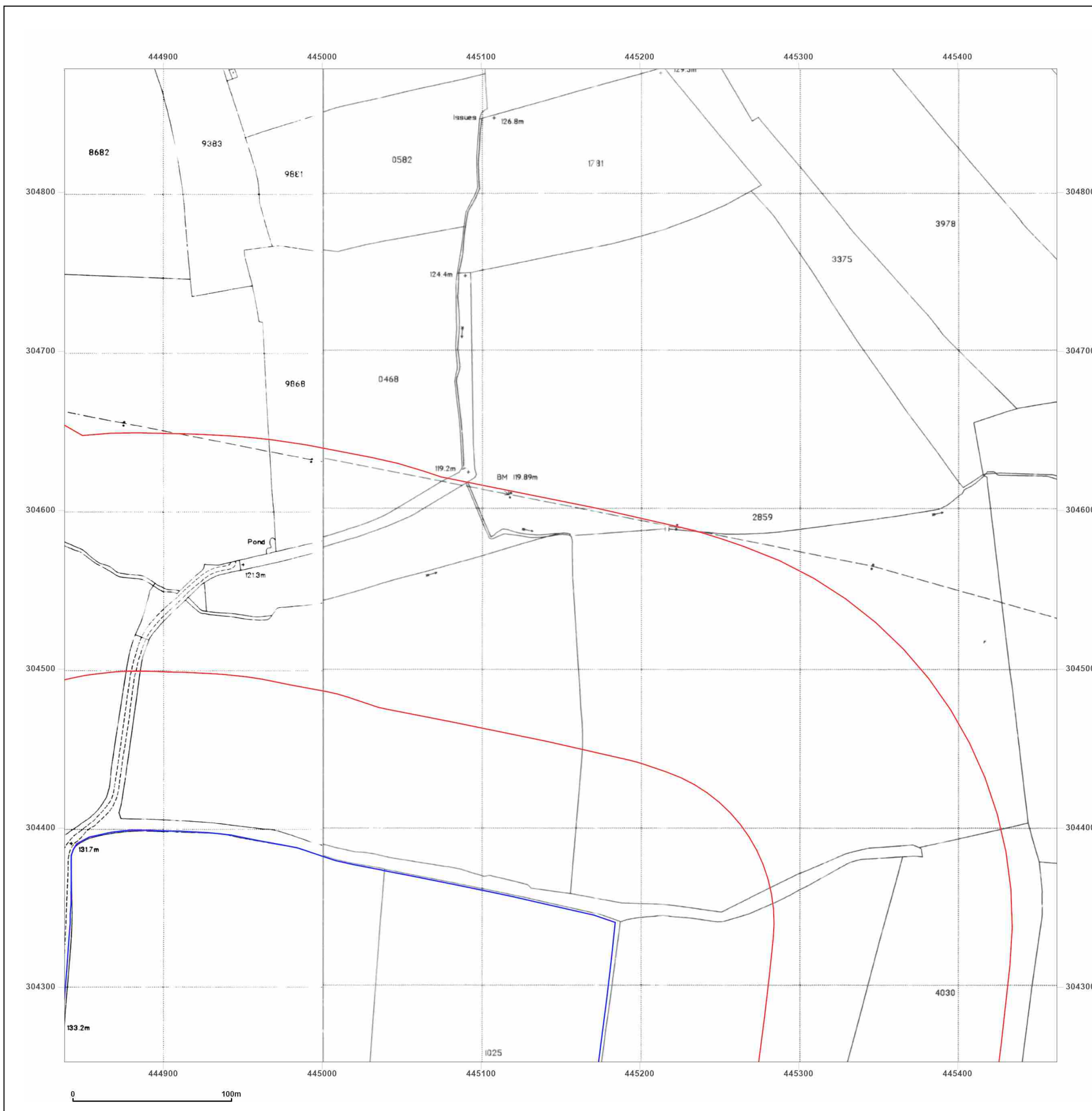


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Map legend available at:
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MEC
Consulting Group

APPENDICES



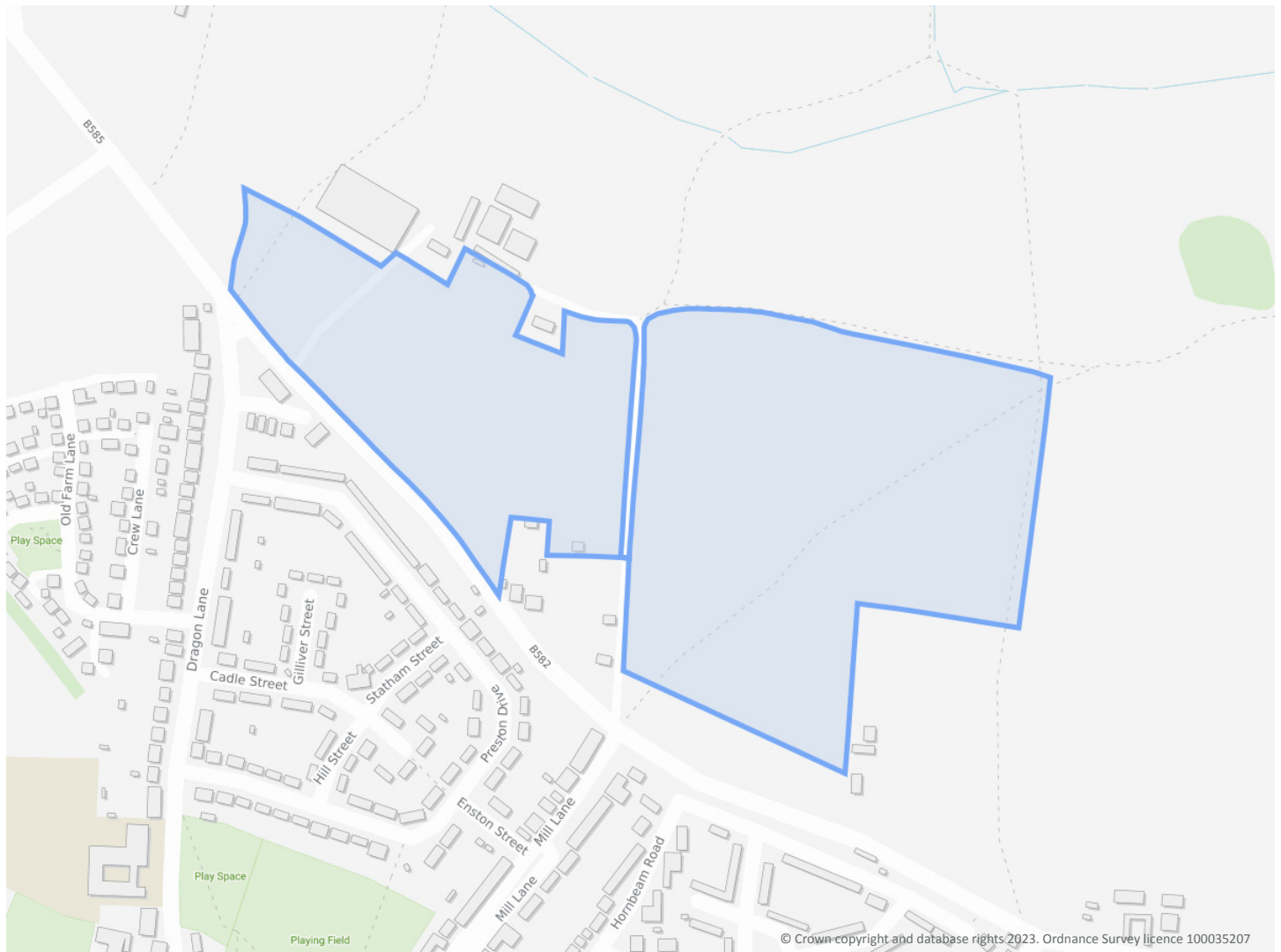
APPENDIX D

LAND AT BARLESTONE ROAD, NEWBOLD VERDON, LE9 9NE**Order Details**

Date: 07/09/2023
Your ref: POP00
Our Ref: GS-PDA-QAV-VOI-2BR

Site Details

Location: 444791 304283
Area: 15.59 ha
Authority: [Hinckley and Bosworth Borough Council](#) ↗

[Summary of findings](#)[p. 2 >](#)[Aerial image](#)[p. 9 >](#)[OS MasterMap site plan](#)[N/A: >10ha](#)[groundsure.com/insightuserguide](#) ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
13 >	1.1 >	Historical industrial land uses >	0	0	1	3	-
14 >	1.2 >	Historical tanks >	0	0	0	2	-
14 >	1.3 >	Historical energy features >	0	0	1	3	-
15	1.4	Historical petrol stations	0	0	0	0	-
15 >	1.5 >	Historical garages >	0	0	3	0	-
15	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
16 >	2.1 >	Historical industrial land uses >	0	0	1	3	-
17 >	2.2 >	Historical tanks >	0	0	0	3	-
17 >	2.3 >	Historical energy features >	0	0	6	16	-
18	2.4	Historical petrol stations	0	0	0	0	-
18 >	2.5 >	Historical garages >	0	0	4	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
20	3.1	Active or recent landfill	0	0	0	0	-
20	3.2	Historical landfill (BGS records)	0	0	0	0	-
21	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
21 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	3	0	-
22	3.5	Historical waste sites	0	0	0	0	-
22	3.6	Licensed waste sites	0	0	0	0	-
22 >	3.7 >	Waste exemptions >	0	23	9	18	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
27 >	4.1 >	Recent industrial land uses >	0	0	6	-	-
28 >	4.2 >	Current or recent petrol stations >	0	0	1	0	-
28	4.3	Electricity cables	0	0	0	0	-
28	4.4	Gas pipelines	0	0	0	0	-
29	4.5	Sites determined as Contaminated Land	0	0	0	0	-



29	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
29	4.7	Regulated explosive sites	0	0	0	0	-
29	4.8	Hazardous substance storage/usage	0	0	0	0	-
29	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
30	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
30 >	4.11 >	<u>Licensed pollutant release (Part A(2)/B) ></u>	0	0	0	1	-
30	4.12	Radioactive Substance Authorisations	0	0	0	0	-
30 >	4.13 >	<u>Licensed Discharges to controlled waters ></u>	0	0	1	0	-
31	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
31	4.15	Pollutant release to public sewer	0	0	0	0	-
31	4.16	List 1 Dangerous Substances	0	0	0	0	-
31	4.17	List 2 Dangerous Substances	0	0	0	0	-
32	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
32	4.19	Pollution inventory substances	0	0	0	0	-
32	4.20	Pollution inventory waste transfers	0	0	0	0	-
32	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
33 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
35 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
37 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
39	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
39	5.5	Groundwater vulnerability- local information	None (within 0m)				
40 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	0	4
41	5.7	Surface water abstractions	0	0	0	0	0
42	5.8	Potable abstractions	0	0	0	0	0
42	5.9	Source Protection Zones	0	0	0	0	-
42	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
43 >	6.1 >	<u>Water Network (OS MasterMap) ></u>	0	0	4	-	-



44 >	6.2 >	Surface water features >	0	0	8	-	-
44 >	6.3 >	WFD Surface water body catchments >	2	-	-	-	-
45 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
45 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-

Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
46	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
46	7.2	Historical Flood Events	0	0	0	-	-
46	7.3	Flood Defences	0	0	0	-	-
47	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
47	7.5	Flood Storage Areas	0	0	0	-	-
48	7.6	Flood Zone 2	None (within 50m)				
48	7.7	Flood Zone 3	None (within 50m)				

Page	Section	Surface water flooding >					
49 >	8.1 >	Surface water flooding >	1 in 30 year, 0.1m - 0.3m (within 50m)				

Page	Section	Groundwater flooding >					
51 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				

Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
52	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
52	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
52	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
52	10.4	Special Protection Areas (SPA)	0	0	0	0	0
53	10.5	National Nature Reserves (NNR)	0	0	0	0	0
53	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
53	10.7	Designated Ancient Woodland	0	0	0	0	0
53	10.8	Biosphere Reserves	0	0	0	0	0
54	10.9	Forest Parks	0	0	0	0	0
54	10.10	Marine Conservation Zones	0	0	0	0	0
54	10.11	Green Belt	0	0	0	0	0
54	10.12	Proposed Ramsar sites	0	0	0	0	0



54	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
55	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
55	10.15	Nitrate Sensitive Areas	0	0	0	0	0
55 >	10.16 >	Nitrate Vulnerable Zones >	1	0	0	4	4
57 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
58	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
59	11.1	World Heritage Sites	0	0	0	-	-
59	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
59	11.3	National Parks	0	0	0	-	-
59	11.4	Listed Buildings	0	0	0	-	-
60	11.5	Conservation Areas	0	0	0	-	-
60	11.6	Scheduled Ancient Monuments	0	0	0	-	-
60	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
61 >	12.1 >	Agricultural Land Classification >	Grade 3 (within 250m)				
62	12.2	Open Access Land	0	0	0	-	-
62	12.3	Tree Felling Licences	0	0	0	-	-
62	12.4	Environmental Stewardship Schemes	0	0	0	-	-
63 >	12.5 >	Countryside Stewardship Schemes >	1	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
64	13.1	Priority Habitat Inventory	0	0	0	-	-
64	13.2	Habitat Networks	0	0	0	-	-
64	13.3	Open Mosaic Habitat	0	0	0	-	-
64	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
65 >	14.1 >	10k Availability >	Identified (within 500m)				
66 >	14.2 >	Artificial and made ground (10k) >	0	0	1	0	-
67 >	14.3 >	Superficial geology (10k) >	2	1	2	3	-



68	14.4	Landslip (10k)	0	0	0	0	-
69 >	14.5 >	Bedrock geology (10k) >	2	0	6	5	-
70	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
71 >	15.1 >	50k Availability >	Identified (within 500m)				
72	15.2	Artificial and made ground (50k)	0	0	0	0	-
72	15.3	Artificial ground permeability (50k)	0	0	-	-	-
73 >	15.4 >	Superficial geology (50k) >	1	1	1	0	-
74 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
74	15.6	Landslip (50k)	0	0	0	0	-
74	15.7	Landslip permeability (50k)	None (within 50m)				
75 >	15.8 >	Bedrock geology (50k) >	1	0	3	2	-
76 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
76	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
77 >	16.1 >	BGS Boreholes >	1	1	1	-	-
Page	Section	Natural ground subsidence >					
79 >	17.1 >	Shrink swell clays >	Low (within 50m)				
81 >	17.2 >	Running sands >	Very low (within 50m)				
83 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
84 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
85 >	17.5 >	Landslides >	Very low (within 50m)				
86 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
88	18.1	BritPits	0	0	0	0	-
89 >	18.2 >	Surface ground workings >	0	1	6	-	-
89	18.3	Underground workings	0	0	0	0	0
89	18.4	Underground mining extents	0	0	0	0	-
90	18.5	Historical Mineral Planning Areas	0	0	0	0	-

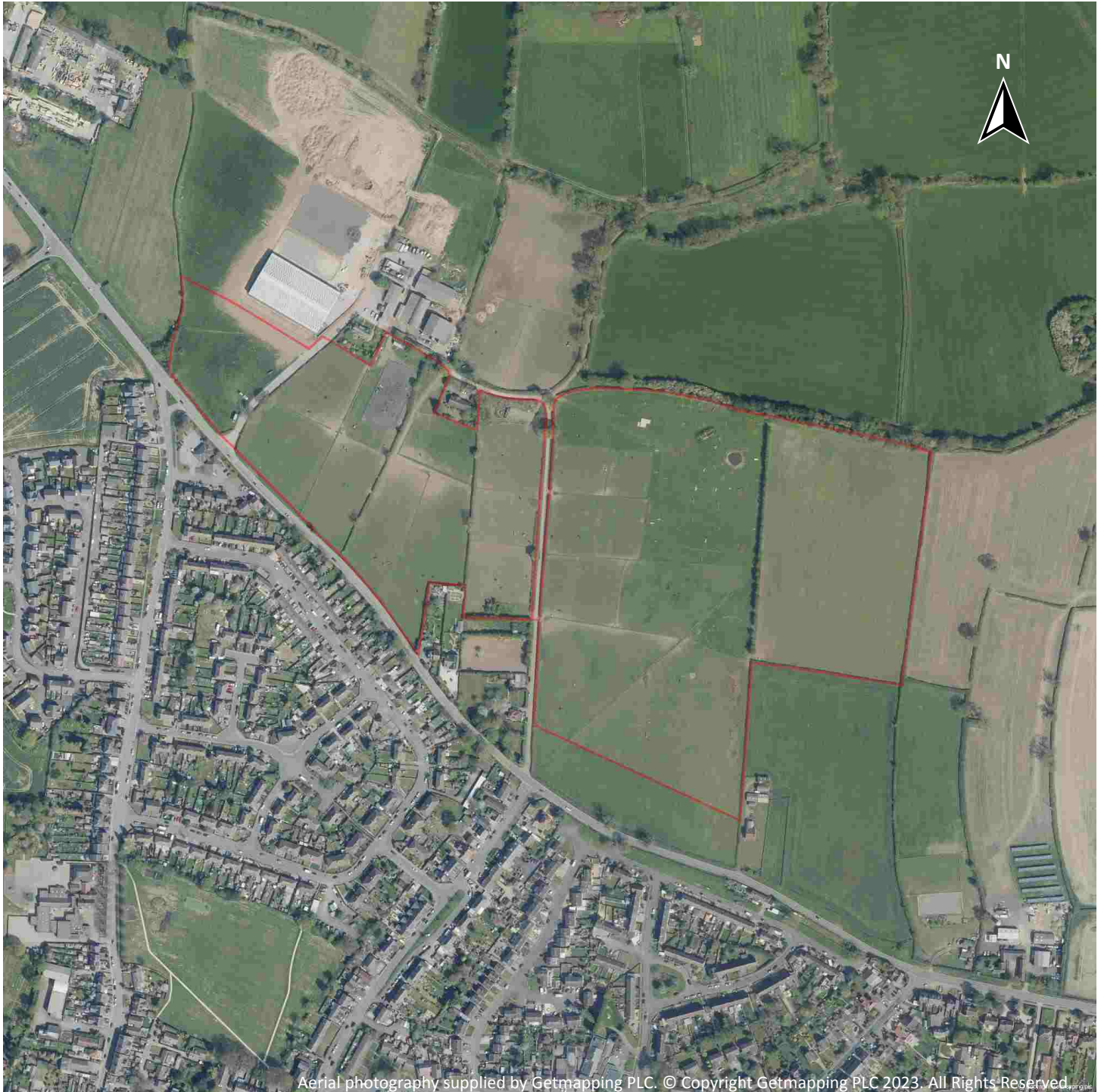


90	18.6	Non-coal mining	0	0	0	0	0
90 >	18.7 >	JPB mining areas >	Identified (within 0m)				
90	18.8	The Coal Authority non-coal mining	0	0	0	0	-
91	18.9	Researched mining	0	0	0	0	-
91	18.10	Mining record office plans	0	0	0	0	-
91	18.11	BGS mine plans	0	0	0	0	-
91 >	18.12 >	Coal mining >	Identified (within 0m)				
92	18.13	Brine areas	None (within 0m)				
92	18.14	Gypsum areas	None (within 0m)				
92	18.15	Tin mining	None (within 0m)				
92	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
93	19.1	Natural cavities	0	0	0	0	-
93	19.2	Mining cavities	0	0	0	0	0
93	19.3	Reported recent incidents	0	0	0	0	-
93	19.4	Historical incidents	0	0	0	0	-
94	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
95 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
97 >	21.1 >	BGS Estimated Background Soil Chemistry >	8	10	-	-	-
98	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
98	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
99	22.1	Underground railways (London)	0	0	0	-	-
99	22.2	Underground railways (Non-London)	0	0	0	-	-
99	22.3	Railway tunnels	0	0	0	-	-
99	22.4	Historical railway and tunnel features	0	0	0	-	-
99	22.5	Royal Mail tunnels	0	0	0	-	-

100	22.6	Historical railways	0	0	0	-	-
100	22.7	Railways	0	0	0	-	-
100	22.8	Crossrail 1	0	0	0	0	-
100	22.9	Crossrail 2	0	0	0	0	-
100	22.10	HS2	0	0	0	0	-



Recent aerial photograph

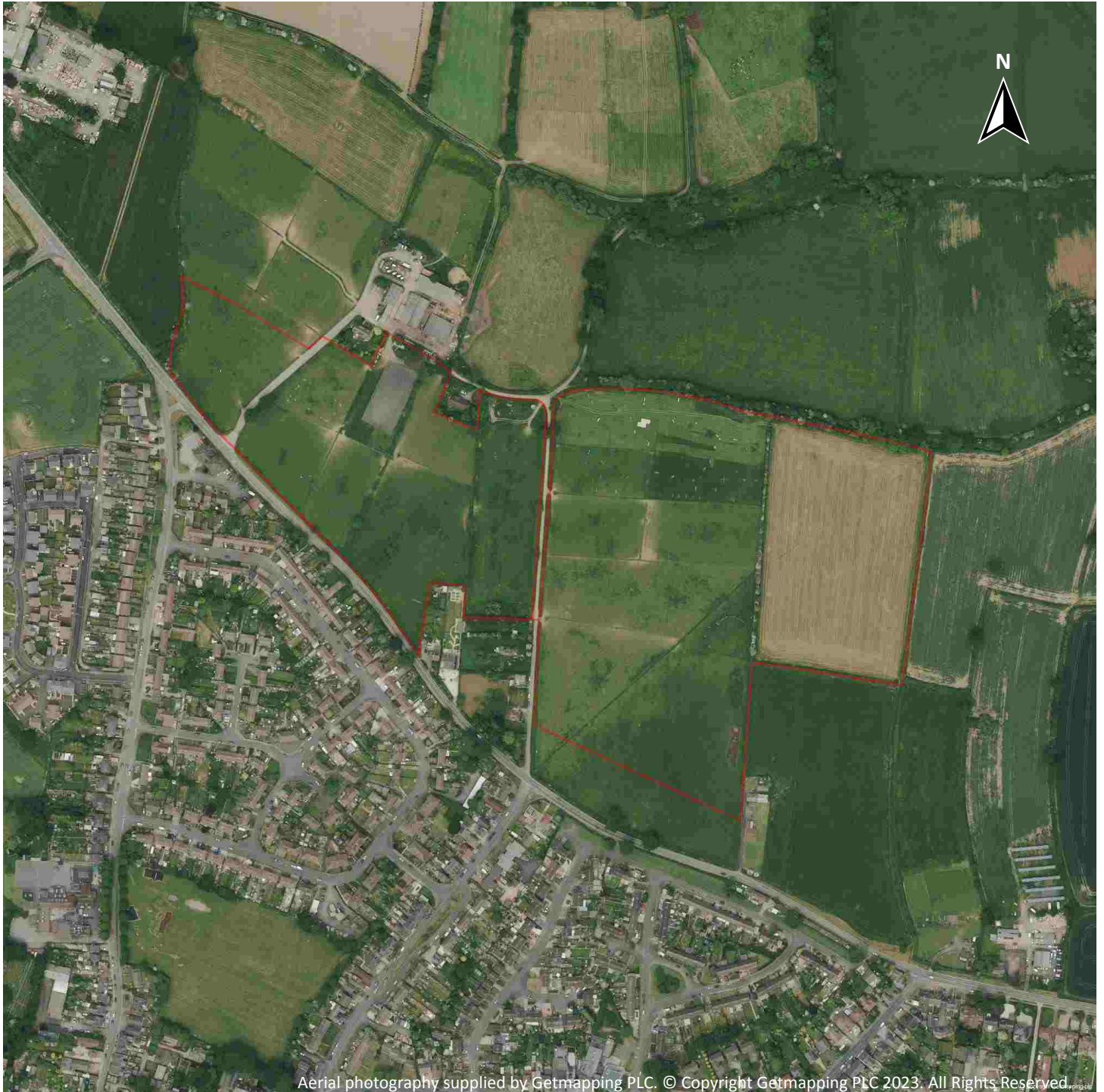


Capture Date: 20/04/2019

Site Area: 15.59ha



Recent site history - 2016 aerial photograph



Capture Date: 07/06/2016

Site Area: 15.59ha



Recent site history - 2011 aerial photograph



Capture Date: 09/10/2011

Site Area: 15.59ha



Recent site history - 1999 aerial photograph



Capture Date: 06/11/1999

Site Area: 15.59ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

4

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
2	220m NW	Sawmill	1980	1573456



ID	Location	Land use	Dates present	Group ID
B	386m NW	Unspecified Tank	1980	1594571
C	393m SW	Smithy	1904	1612506
C	418m SW	Smithy	1950	1612505

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

2

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
B	388m NW	Unspecified Tank	1963	271749
B	389m NW	Unspecified Tank	1958 - 1994	266696

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

4

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
1	174m SW	Electricity Substation	1972 - 1991	153721
3	288m S	Electricity Substation	1972 - 1991	164502
4	300m S	Electricity Substation	1984 - 1991	153458



ID	Location	Land use	Dates present	Group ID
5	309m SW	Electricity Substation	1972 - 1991	156841

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

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

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	3
----------------------------	----------

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
A	222m SE	Garage	1958 - 1989	51971
A	224m SE	Garage	1994	50239
A	241m SE	Garage	1972	50586

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

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

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

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



2 Past land use - un-grouped



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

2.1 Historical industrial land uses

Records within 500m

4

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 16](#) >

ID	Location	Land Use	Date	Group ID
1	220m NW	Sawmill	1980	1573456
F	386m NW	Unspecified Tank	1980	1594571
G	393m SW	Smithy	1904	1612506



ID	Location	Land Use	Date	Group ID
G	418m SW	Smithy	1950	1612505

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 16 >](#)

ID	Location	Land Use	Date	Group ID
F	388m NW	Unspecified Tank	1963	271749
F	389m NW	Unspecified Tank	1994	266696
F	390m NW	Unspecified Tank	1958	266696

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	22
----------------------------	-----------

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 16 >](#)

ID	Location	Land Use	Date	Group ID
A	174m SW	Electricity Substation	1972	153721
A	176m SW	Electricity Substation	1980	153721
A	176m SW	Electricity Substation	1984	153721
A	176m SW	Electricity Substation	1991	153721
A	176m SW	Electricity Substation	1991	153721
A	176m SW	Electricity Substation	1991	153721
C	288m S	Electricity Substation	1972	164502



ID	Location	Land Use	Date	Group ID
C	288m S	Electricity Substation	1980	164502
C	288m S	Electricity Substation	1984	164502
C	288m S	Electricity Substation	1991	164502
C	288m S	Electricity Substation	1991	164502
C	288m S	Electricity Substation	1991	164502
D	300m S	Electricity Substation	1984	153458
D	300m S	Electricity Substation	1991	153458
D	300m S	Electricity Substation	1991	153458
D	300m S	Electricity Substation	1991	153458
E	309m SW	Electricity Substation	1972	156841
E	312m SW	Electricity Substation	1980	156841
E	312m SW	Electricity Substation	1984	156841
E	312m SW	Electricity Substation	1991	156841
E	312m SW	Electricity Substation	1991	156841
E	312m SW	Electricity Substation	1991	156841

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

4

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 16 >](#)

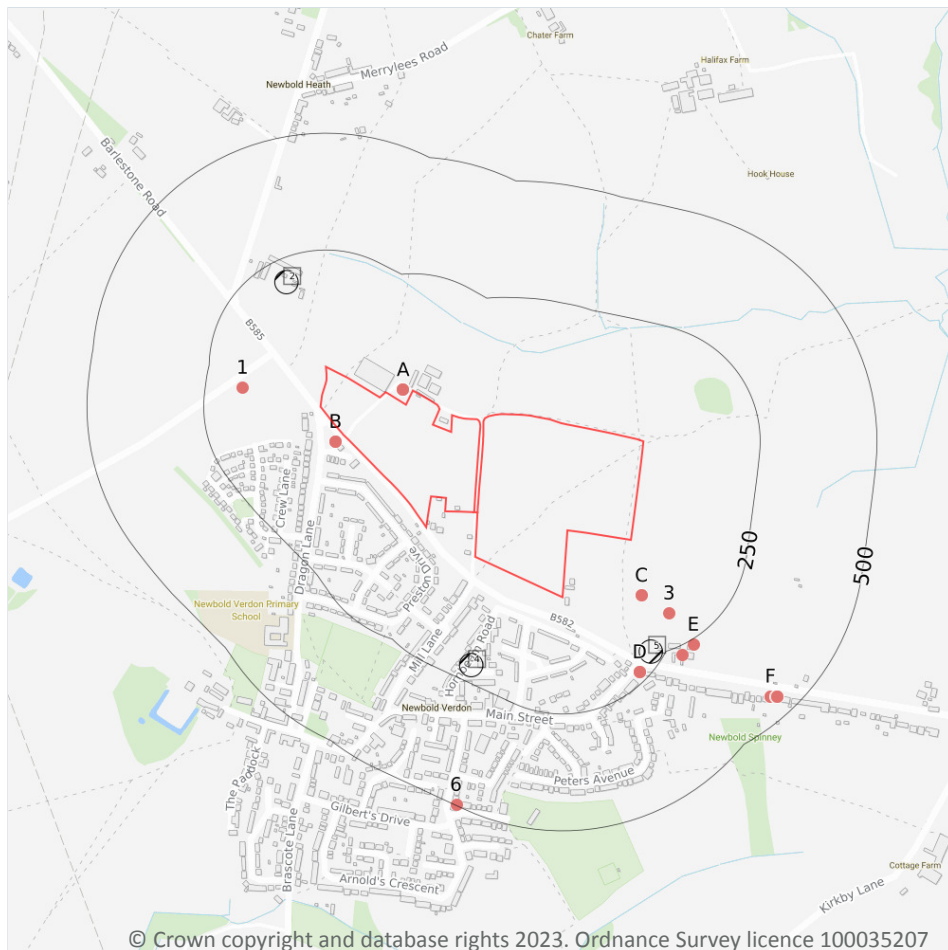


ID	Location	Land Use	Date	Group ID
B	222m SE	Garage	1989	51971
B	224m SE	Garage	1994	50239
B	241m SE	Garage	1972	50586
B	245m SE	Garage	1958	51971

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



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

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

3

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

Features are displayed on the Waste and landfill map on [page 20 >](#)

ID	Location	Details		
2	175m NW	Site Address: Newbold Verdon Sawmills Landfill Site, Off Barlestone Road, Newbold Verdon, Leicestershire Licence Holder Address: -	Waste Licence: - Site Reference: GDO 201, 72 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded 31/12/1968 Last Recorded: 31/12/1993
4	189m S	Site Address: Newbold Verdon Landfill Site, Hornbeam Road, Newbold Verdon, Leicestershire Licence Holder Address: -	Waste Licence: - Site Reference: GDO 202, 73 Waste Type: Waste Unknown Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
5	197m SE	Site Address: Wrask Farm, Wrask Farm, Desford Road, Newbold Verdon, Leicestershire Licence Holder Address: -	Waste Licence: - Site Reference: GDO 202, 203 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded 31/12/1940 Last Recorded: 31/12/1950

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



3.5 Historical waste sites

Records within 500m

0

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

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

3.6 Licensed waste sites

Records within 500m

0

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

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

3.7 Waste exemptions

Records within 500m

50

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 20 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	19m NW	Fields Farm Barlestone Road LEICESTER LE9 9NE	EPR/GE5688P A/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
A	19m NW	Fields Farm Barlestone Road LEICESTER LE9 9NE	EPR/GE5688P A/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	19m NW	Fields Farm Barlestone Road LEICESTER LE9 9NE	EPR/GE5688P A/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
A	19m NW	Fields Farm Barlestone Road LEICESTER LE9 9NE	EPR/GE5688P A/A001	Treating waste exemption	Agricultural Waste Only	Aerobic composting and associated prior treatment
A	19m NW	Fields Farm Barlestone Road LEICESTER LE9 9NE	EPR/GE5688P A/A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	19m NW	Fields Farm Barlestone Road LEICESTER LE9 9NE	EPR/GE5688P A/A001	Using waste exemption	Agricultural Waste Only	Burning of waste as a fuel in a small appliance
A	19m NW	Fields Farm Barlestone Road LEICESTER LE9 9NE	EPR/GE5688P A/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose



ID	Location	Site	Reference	Category	Sub-Category	Description
A	19m NW	Fields Farm Barlestone Road LEICESTER LE9 9NE	EPR/GE5688P A/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
A	21m NW	FIELDS FARM, BARLESTONE ROAD, NEWBOLD VERDON, LEICESTER, LE9 9NE	WEX187888	Treating waste exemption	On a farm	Recovery of scrap metal
A	21m NW	FIELDS FARM, BARLESTONE ROAD, NEWBOLD VERDON, LEICESTER, LE9 9NE	WEX187888	Using waste exemption	On a farm	Use of waste in construction
A	21m NW	FIELDS FARM, BARLESTONE ROAD, NEWBOLD VERDON, LEICESTER, LE9 9NE	WEX187888	Using waste exemption	On a farm	Incorporation of ash into soil
A	21m NW	FIELDS FARM, BARLESTONE ROAD, NEWBOLD VERDON, LEICESTER, LE9 9NE	WEX031130	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	21m NW	FIELDS FARM, BARLESTONE ROAD, NEWBOLD VERDON, LEICESTER, LE9 9NE	WEX031130	Disposing of waste exemption	On a farm	Burning waste in the open
A	21m NW	FIELDS FARM, BARLESTONE ROAD, NEWBOLD VERDON, LEICESTER, LE9 9NE	WEX031130	Using waste exemption	On a farm	Use of waste in construction
A	21m NW	FIELDS FARM, BARLESTONE ROAD, NEWBOLD VERDON, LEICESTER, LE9 9NE	WEX031130	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	21m NW	FIELDS FARM, BARLESTONE ROAD, NEWBOLD VERDON, LEICESTER, LE9 9NE	WEX318053	Treating waste exemption	On a farm	Recovery of scrap metal
A	21m NW	FIELDS FARM, BARLESTONE ROAD, NEWBOLD VERDON, LEICESTER, LE9 9NE	WEX318053	Using waste exemption	On a farm	Incorporation of ash into soil
A	21m NW	FIELDS FARM, BARLESTONE ROAD, NEWBOLD VERDON, LEICESTER, LE9 9NE	WEX318053	Using waste exemption	On a farm	Use of waste in construction
B	23m W	ST. GEORGES CLOSE, NEWBOLD VERDON, LEICESTER, LE9 9PZ	WEX211174	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	23m W	ST. GEORGES CLOSE, NEWBOLD VERDON, LEICESTER, LE9 9PZ	WEX167817	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal



ID	Location	Site	Reference	Category	Sub-Category	Description
B	23m W	ST. GEORGES CLOSE NEWBOLD VERDON LEICESTER LE9 9PZ	WEX005287	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	23m W	ST. GEORGES CLOSE, NEWBOLD VERDON, LEICESTER, LE9 9PZ	WEX338258	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	23m W	ST. GEORGES CLOSE, NEWBOLD VERDON, LEICESTER, LE9 9PZ	WEX303309	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal
C	122m SE	-	WEX196283	Storing waste exemption	On a Farm	Storage of sludge
C	122m SE	-	WEX031360	Storing waste exemption	On a farm	Storage of sludge
1	171m W	-	WEX248849	Using waste exemption	Not on a farm	Use of waste in construction
3	178m SE	-	WEX346458	Storing waste exemption	On a farm	Storage of sludge
D	230m SE	Red House Farm, Desford Road, Newbold Verdon, Leicestershire, LE9 9LG	WEX341001	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
D	230m SE	Red House Farm, Desford Road, Newbold Verdon, Leicestershire, LE9 9LG	WEX341001	Using waste exemption	On a farm	Incorporation of ash into soil
D	230m SE	Red House Farm, Desford Road, Newbold Verdon, Leicestershire, LE9 9LG	WEX341001	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
D	230m SE	Red House Farm, Desford Road, Newbold Verdon, Leicestershire, LE9 9LG	WEX341001	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
D	230m SE	Red House Farm, Desford Road, Newbold Verdon, Leicestershire, LE9 9LG	WEX341001	Disposing of waste exemption	On a farm	Burning waste in the open
E	261m SE	Wraske Farm Desford Road Leicester Leicestershire LE9 9LG	EPR/RF0505ZD /A001	Disposing of waste exemption	Non-Agricultural Waste Only	Burning waste in the open
E	270m SE	WRASKE FARM, DESFORD ROAD, NEWBOLD VERDON, LEICESTER, LE9 9LG	WEX145040	Disposing of waste exemption	On a farm	Burning waste in the open



ID	Location	Site	Reference	Category	Sub-Category	Description
F	449m SE	Red House Farm, Desford Road, Newbold Verdon, Leicestershire, LE9 9LG	WEX063062	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
F	449m SE	Red House Farm, Desford Road, Newbold Verdon, Leicestershire, LE9 9LG	WEX063062	Disposing of waste exemption	On a farm	Burning waste in the open
F	449m SE	Red House Farm, Desford Road, Newbold Verdon, Leicestershire, LE9 9LG	WEX063062	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
F	449m SE	Red House Farm, Desford Road, Newbold Verdon, Leicestershire, LE9 9LG	WEX063062	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
F	449m SE	Red House Farm, Desford Road, Newbold Verdon, Leicestershire, LE9 9LG	WEX063062	Using waste exemption	On a farm	Incorporation of ash into soil
F	457m SE	Red House Farm Desford Road Leicester Leicestershire LE9 9LG	EPR/HF0030TF /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
F	457m SE	Red House Farm Desford Road Leicester Leicestershire LE9 9LG	EPR/HF0030TF /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
F	457m SE	Red House Farm Desford Road Leicester Leicestershire LE9 9LG	EPR/HF0030TF /A001	Treating waste exemption	Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
F	457m SE	Red House Farm Desford Road Leicester Leicestershire LE9 9LG	EPR/HF0030TF /A001	Using waste exemption	Agricultural Waste Only	Spreading of plant matter to confer benefit
F	457m SE	Red House Farm Desford Road Leicester Leicestershire LE9 9LG	EPR/HF0030TF /A001	Using waste exemption	Agricultural Waste Only	Incorporation of ash into soil
F	459m SE	Red House Farm, Desford Road, Newbold Verdon, Leicestershire, LE9 9LG	WEX216712	Disposing of waste exemption	On a Farm	Burning waste in the open
F	459m SE	Red House Farm, Desford Road, Newbold Verdon, Leicestershire, LE9 9LG	WEX216712	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
F	459m SE	Red House Farm, Desford Road, Newbold Verdon, Leicestershire, LE9 9LG	WEX216712	Treating waste exemption	On a Farm	Preparatory treatments (baling, sorting, shredding etc)

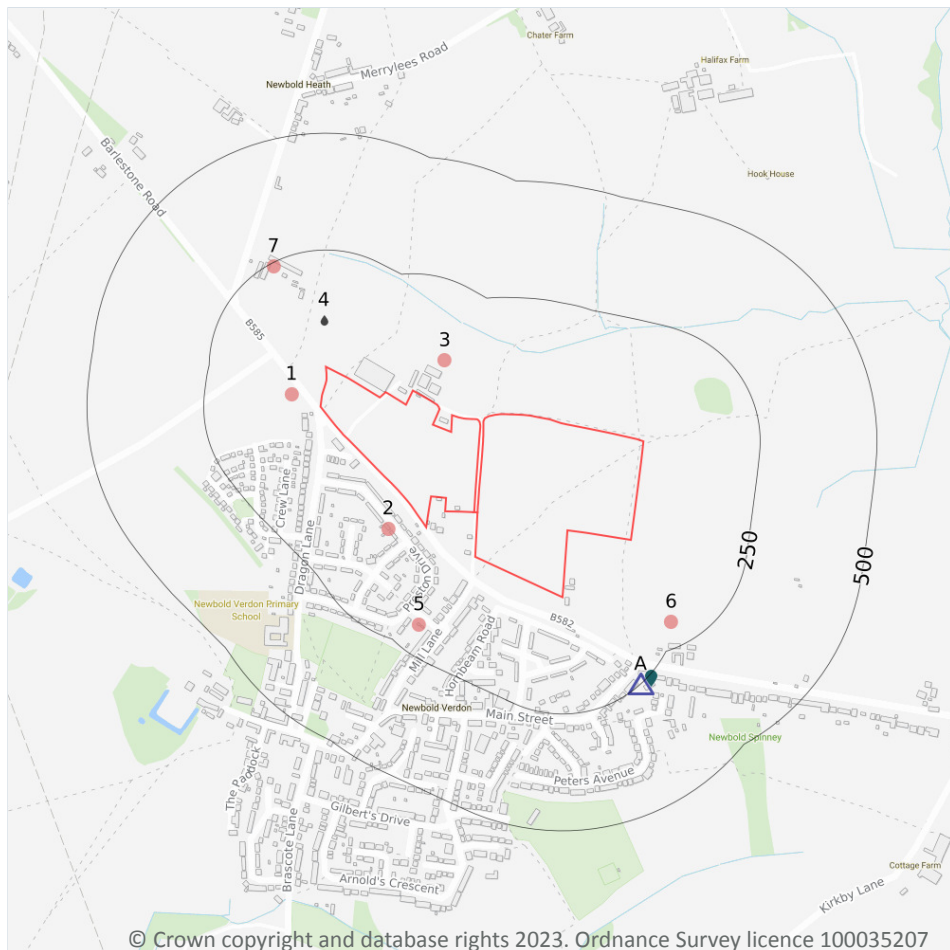


ID	Location	Site	Reference	Category	Sub-Category	Description
F	459m SE	Red House Farm, Desford Road, Newbold Verdon, Leicestershire, LE9 9LG	WEX216712	Using waste exemption	On a Farm	Incorporation of ash into soil
F	459m SE	Red House Farm, Desford Road, Newbold Verdon, Leicestershire, LE9 9LG	WEX216712	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
6	500m S	-	WEX277171	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal

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



4 Current industrial land use



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

4.1 Recent industrial land uses

Records within 250m

6

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 27 >](#)

ID	Location	Company	Address	Activity	Category
1	65m W	Pumping Station	Leicestershire, LE9	Water Pumping Stations	Industrial Features
2	68m SW	Woodward Security	61, Preston Drive, Newbold Verdon, Leicestershire, LE9 9PN	Electronic Equipment	Industrial Products
3	90m NW	Tank	Leicestershire, LE9	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
5	188m SW	Electricity Sub Station	Leicestershire, LE9	Electrical Features	Infrastructure and Facilities
6	195m SE	Solar Panels	Leicestershire, LE9	Energy Production	Industrial Features
7	243m NW	Saw Mill	Leicestershire, LE9	Wood Products Including Charcoal, Paper, Card and Board	Industrial Products

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 27 >](#)

ID	Location	Company	Address	LPG	Status
A	250m SE	PROTEUS	5-11, Desford Road, Newbold Verdon, Leicester, Leicestershire, LE9 9LG	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.



4.5 Sites determined as Contaminated Land

Records within 500m**0**

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m**0**

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m**0**

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m**0**

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m**0**

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m**0**

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

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

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

Records within 500m**1**

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

Features are displayed on the Current industrial land use map on [page 27 >](#)

ID	Location	Address	Details	
A	255m SE	Verdon Garage, Desford Road, Newbold, LE9 9LG	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m**0**

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m**1**

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

Features are displayed on the Current industrial land use map on [page 27 >](#)



ID	Location	Address	Details	
4	99m NW	PROPOSED BUNGALOW, BAGWORTH LANE, NEWBOLD VERDON, LEICESTERSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 3/28/50/1420 Permit Version: 1 Receiving Water: UNDERGROUND STRATA	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 08/05/1970 Effective Date: 08/05/1970 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

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

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

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

4.15 Pollutant release to public sewer

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

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

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

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

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

4.17 List 2 Dangerous Substances

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

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m**0**

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

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

4.19 Pollution inventory substances

Records within 500m**0**

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

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

4.20 Pollution inventory waste transfers

Records within 500m**0**

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

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

4.21 Pollution inventory radioactive waste

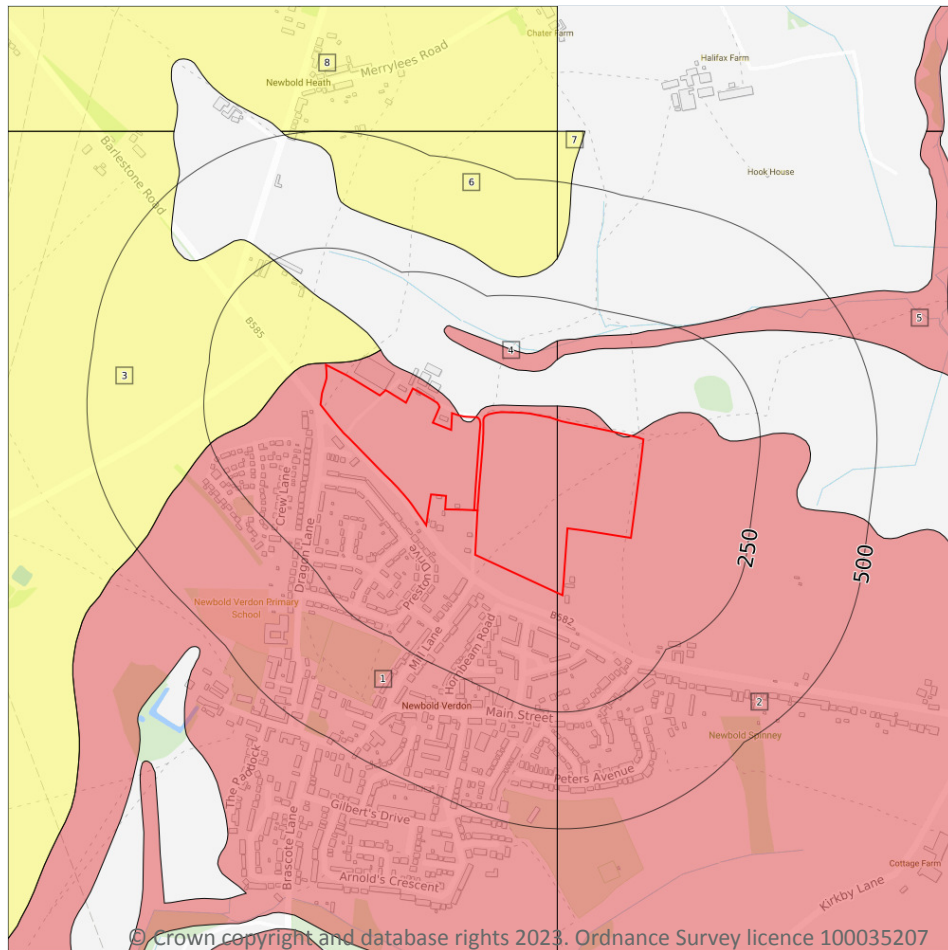
Records within 500m**0**

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

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



5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

8

Aquifer status of groundwater held within superficial geology.

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

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

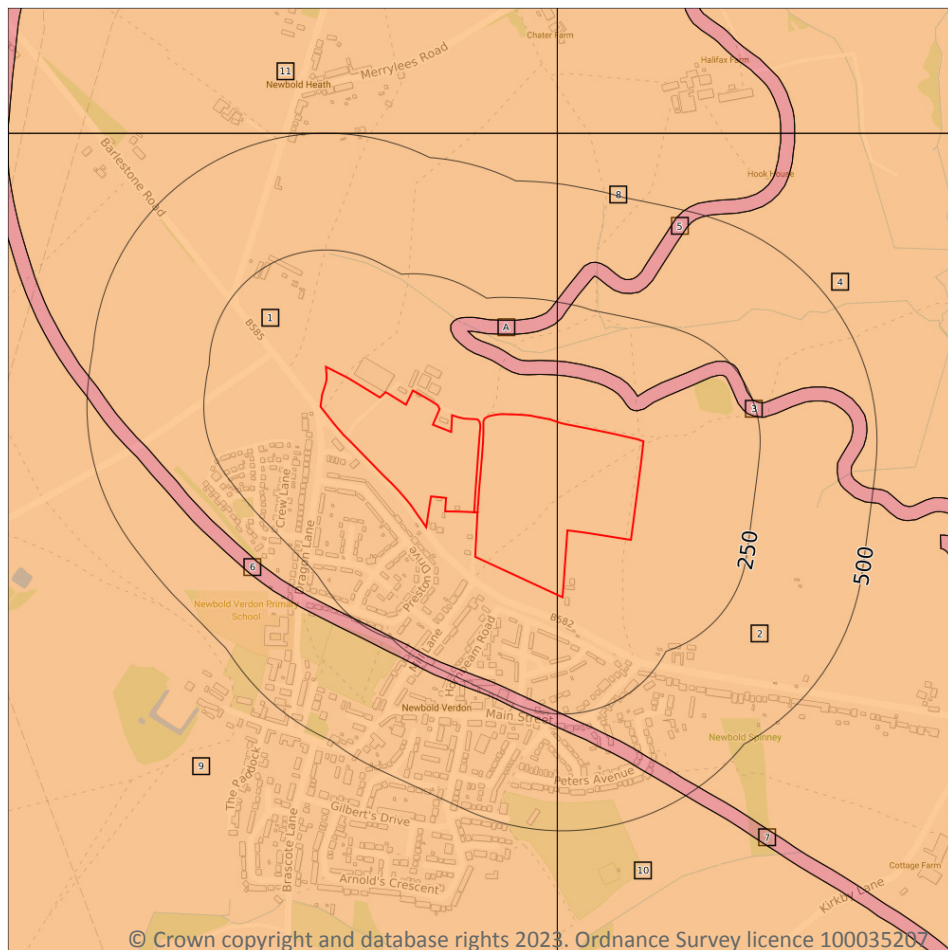


ID	Location	Designation	Description
3	4m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	91m 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
5	125m 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
6	290m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
7	337m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
8	500m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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



Bedrock aquifer



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

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 35](#) >

ID	Location	Designation	Description
1	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
2	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

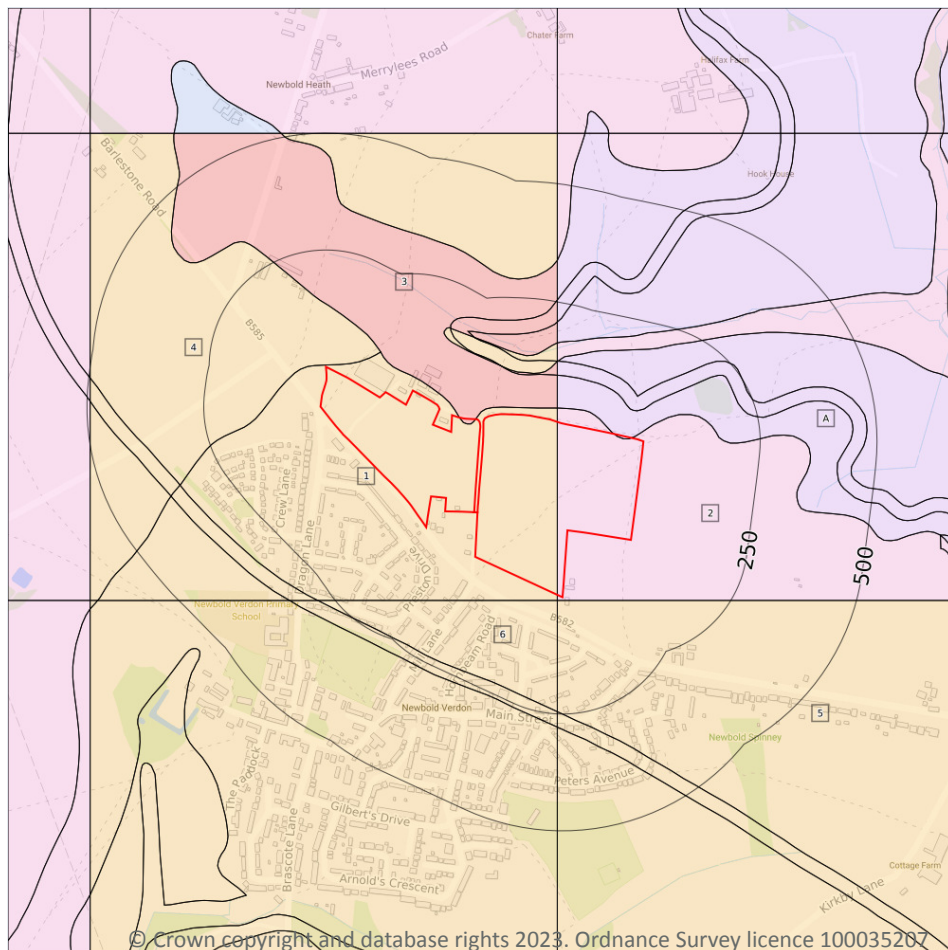


ID	Location	Designation	Description
3	59m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
A	86m N	Secondary 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
4	90m NE	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
A	116m N	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
5	208m 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
6	227m 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
7	245m 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
8	254m N	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
9	257m S	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
10	278m S	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
11	500m NW	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

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



Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m

7

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 37](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
A	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
4	3m NW	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
5	7m SE	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: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
6	11m SE	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

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

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

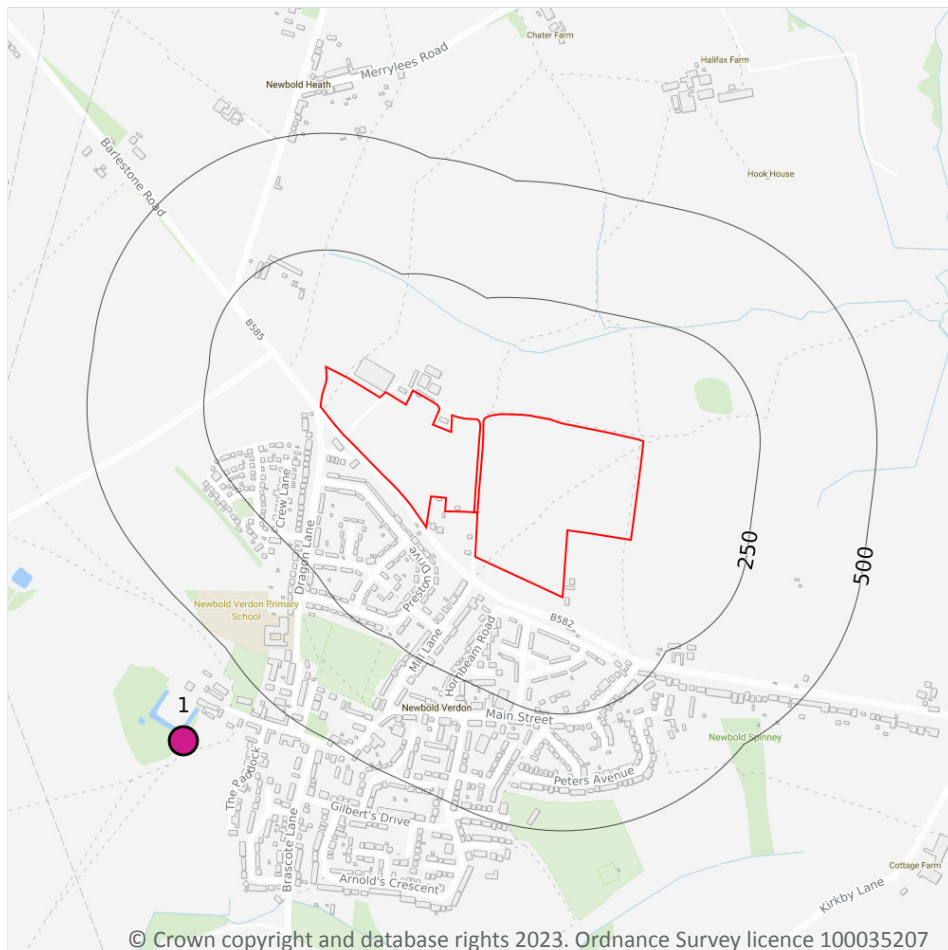
5.5 Groundwater vulnerability- local information

Records on site	0
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This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

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

Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

4

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 40](#) >

ID	Location	Details	
1	691m SW	Status: Historical Licence No: 03/28/56/0018 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: THE HALL, NEWBOLD VERDON - WELL Data Type: Point Name: J G SELKIRK ESQ Easting: 444200 Northing: 303700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
-	926m S	Status: Historical Licence No: 03/28/50/0014 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: 'OAK LEA' Data Type: Point Name: B AND T H BATES Easting: 445200 Northing: 303100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 03/11/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
-	1429m E	Status: Historical Licence No: 03/28/56/0006 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: LINDRIDGE HALL - WELL Data Type: Point Name: T H AND T N SCARRATT Easting: 446500 Northing: 304900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 03/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
-	1659m SW	Status: Historical Licence No: 03/28/50/0079 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: MANOR FARM - SPRING Data Type: Point Name: FREEMAN Easting: 444100 Northing: 302600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

0

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

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



5.8 Potable abstractions

Records within 2000m**0**

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

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

5.9 Source Protection Zones

Records within 500m**0**

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

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

5.10 Source Protection Zones (confined aquifer)

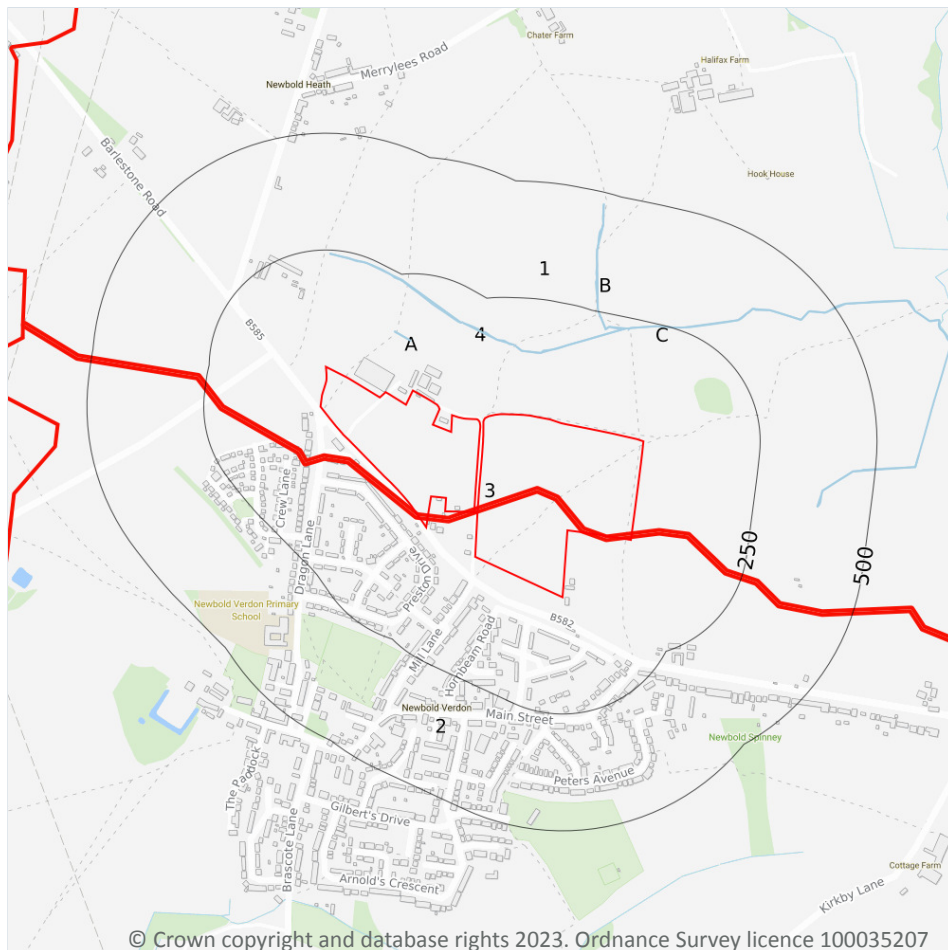
Records within 500m**0**

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

4

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 43](#) >

ID	Location	Type of water feature	Ground level	Permanence	Name
A	106m NW	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
4	135m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	216m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	226m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

8

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

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

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 43 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Rothley Brook Catchment (trib of Soar)	GB104028046730	Soar River	Soar
2	On site	River	Thurlaston Brook Catchment (trib of Soar)	GB104028046940	Soar River	Soar

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 43](#) >

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	651m SE	River	Thurlaston Brook Catchment (trib of Soar)	GB104028046940 ↗	Poor	Fail	Poor	2019
-	2396m NE	River	Rothley Brook Catchment (trib of Soar)	GB104028046730 ↗	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 43](#) >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
3	On site	Soar - Secondary Combined	GB40402G990600 ↗	Good	Good	Good	2019

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



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m**0**

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

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

7.2 Historical Flood Events

Records within 250m**0**

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

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

7.3 Flood Defences

Records within 250m**0**

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

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



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

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

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

7.7 Flood Zone 3

Records within 50m

0

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

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



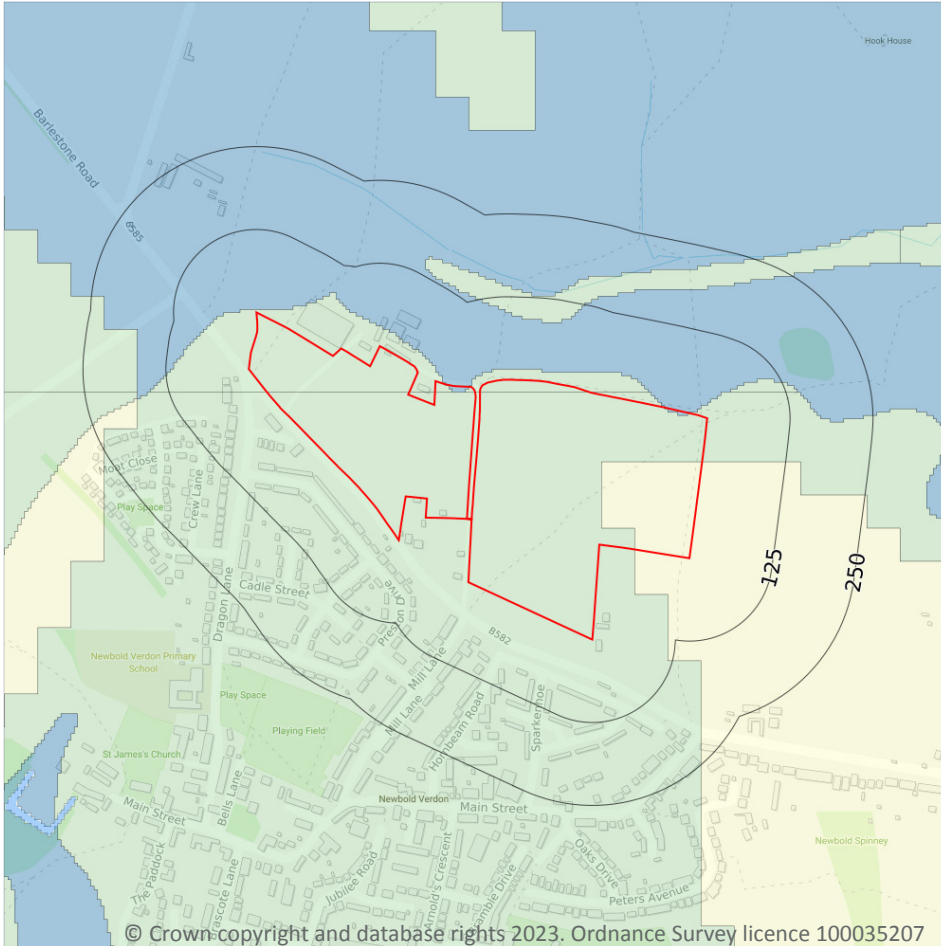
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.1m and 0.3m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

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 51](#) >

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m**0**

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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



10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m**0**

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

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

10.7 Designated Ancient Woodland

Records within 2000m**0**

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.

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

0

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

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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



10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

9

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	SOAR R NVZ	Surface Water	309	Existing
370m W	River Trent (source to confluence with Derwent)	Surface Water	308	Existing
401m W	SOAR R NVZ	Surface Water	309	Existing
401m W	River Trent (source to confluence with Derwent)	Surface Water	308	Existing
410m W	SOAR R NVZ	Surface Water	309	Existing
984m NW	SOAR R NVZ	Surface Water	309	Existing
1482m N	River Trent (source to confluence with Derwent)	Surface Water	308	Existing
1488m N	SOAR R NVZ	Surface Water	309	Existing

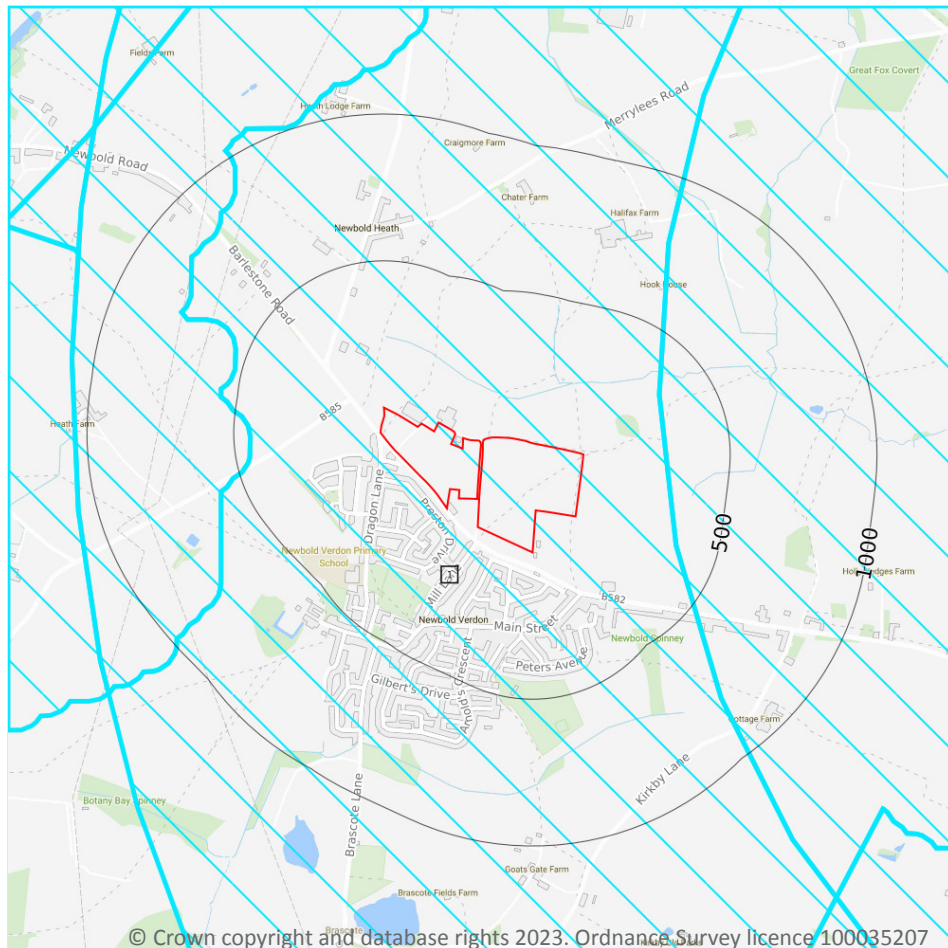


Location	Name	Type	NVZ ID	Status
1538m NW	River Trent (source to confluence with Derwent)	Surface Water	308	Existing

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



SSSI Impact Zones and Units



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

10.17 SSSI Impact Risk Zones

Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on [page 57](#) >

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m ² , slurry lagoons & digestate stores > 750m ² , manure stores > 3500t.

This data is sourced from Natural England.



10.18 SSSI Units

Records within 2000m

0

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

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



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

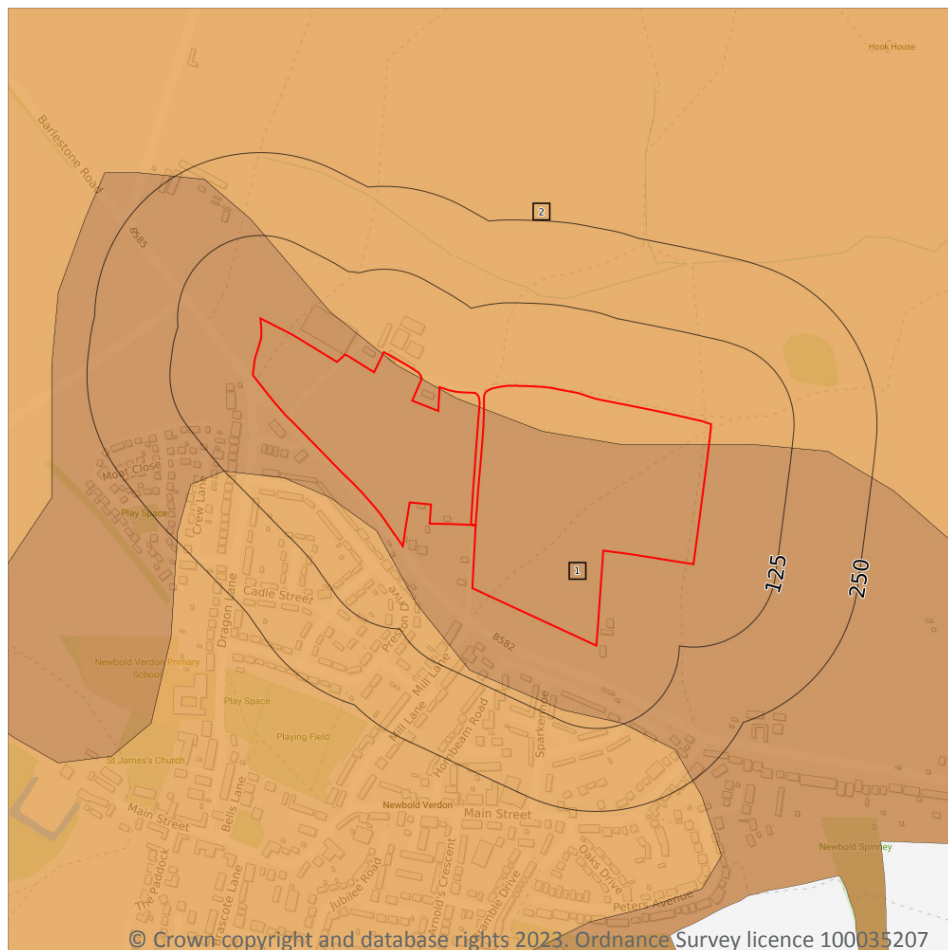
0

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

2

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

Features are displayed on the Agricultural designations map on [page 61](#) >



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

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0
---------------------	---

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

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

12.3 Tree Felling Licences

Records within 250m	0
---------------------	---

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0
---------------------	---

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

This data is sourced from Natural England.



12.5 Countryside Stewardship Schemes

Records within 250m**1**

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
On site	489331	Countryside Stewardship (Middle Tier)	01/01/2018	31/12/2022

This data is sourced from Natural England.



13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m**0**

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m**0**

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m**0**

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

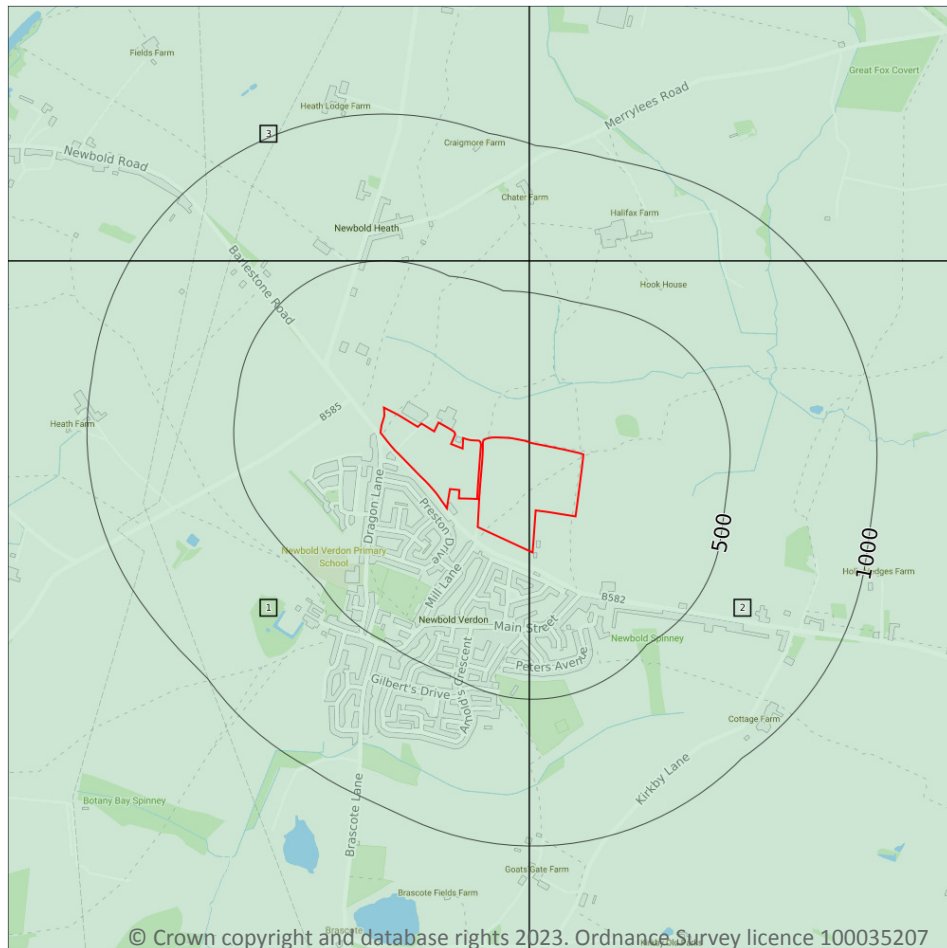
Records within 250m**0**

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

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.

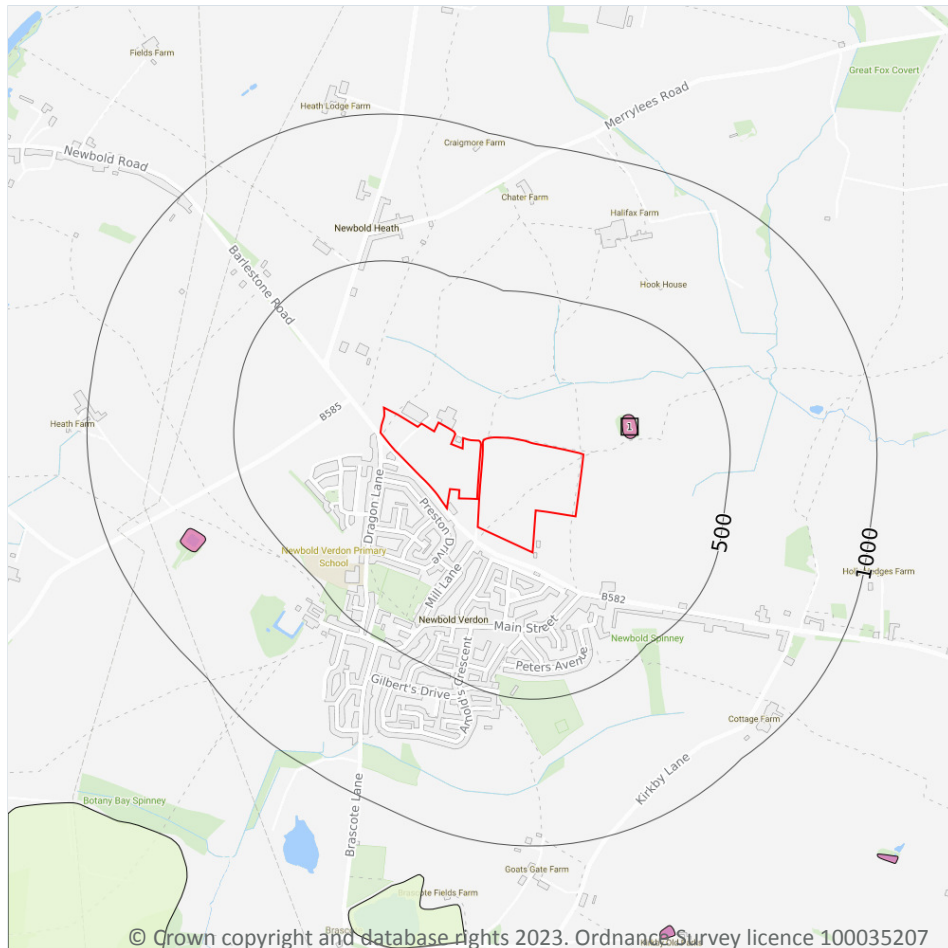
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 65](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SK40SW
2	On site	Full	Full	Full	No coverage	SK40SE
3	500m NW	Full	Full	Full	Full	SK40NW

This data is sourced from the British Geological Survey.



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



— Site Outline
Search buffers in metres (m)

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

14.2 Artificial and made ground (10k)

Records within 500m

1

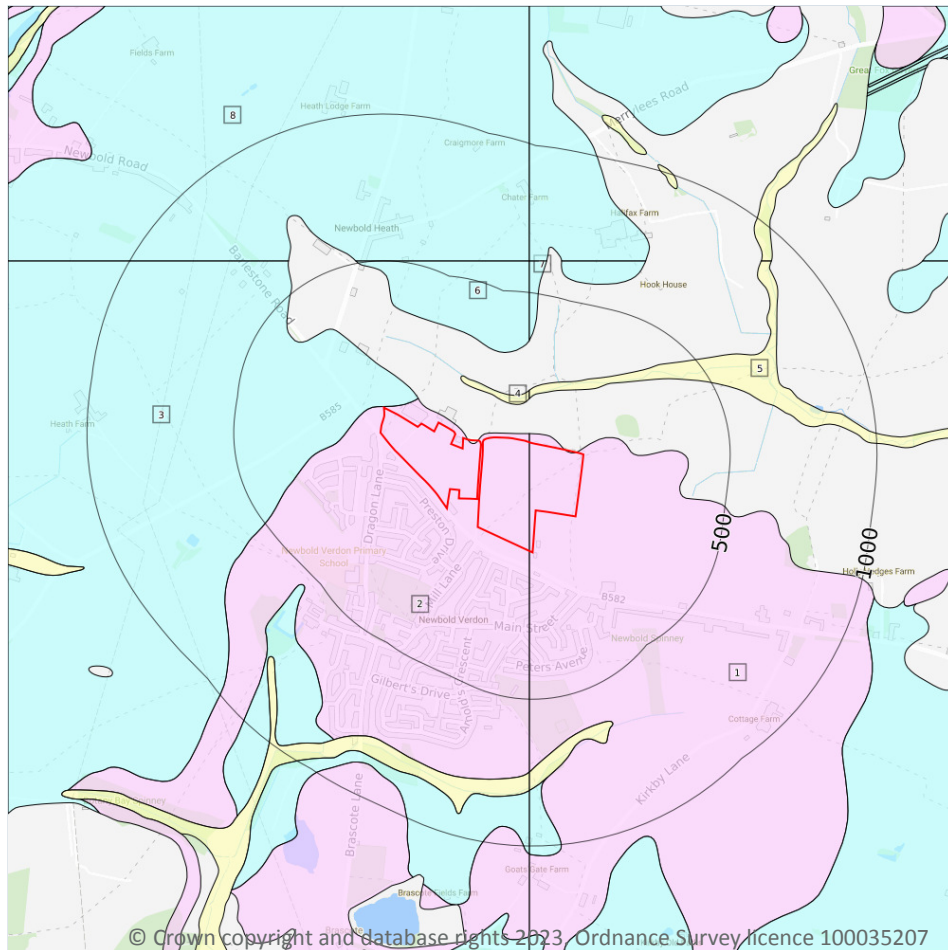
Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 66](#) >

ID	Location	LEX Code	Description	Rock description
1	154m E	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

8

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

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

ID	Location	LEX Code	Description	Rock description
1	On site	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel
2	On site	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel
3	4m NW	ODT-DMTN	Oadby Member - Diamicton	Diamicton
4	116m N	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel



ID	Location	LEX Code	Description	Rock description
5	143m NE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
6	290m N	ODT-DMTN	Oadby Member - Diamicton	Diamicton
7	338m N	ODT-DMTN	Oadby Member - Diamicton	Diamicton
8	500m NW	ODT-DMTN	Oadby Member - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

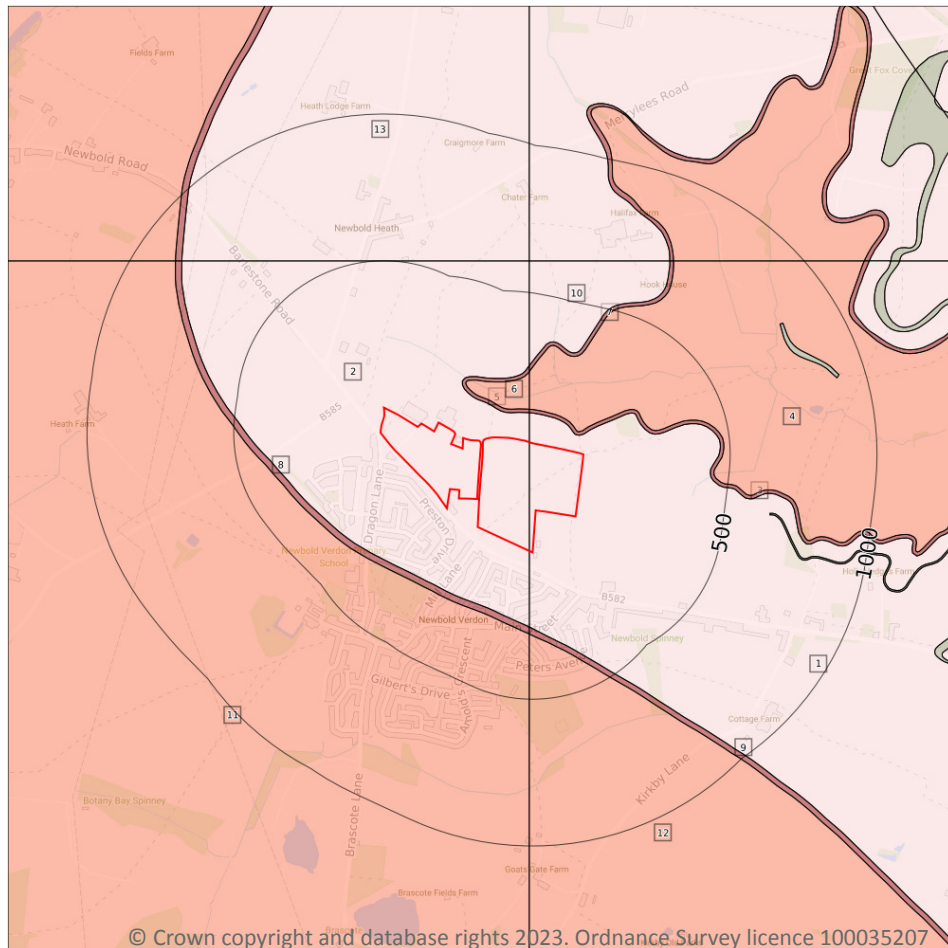
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

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

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

14.5 Bedrock geology (10k)

Records within 500m

13

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

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

ID	Location	LEX Code	Description	Rock age
1	On site	EDW-MDST	Edwalton Member - Mudstone	Carnian Age
2	On site	EDW-MDST	Edwalton Member - Mudstone	Carnian Age
3	59m NE	COT-SDST	Cotgrave Sandstone Member - Sandstone	Carnian Age
4	70m NE	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age



ID	Location	LEX Code	Description	Rock age
5	86m N	COT-SDST	Cotgrave Sandstone Member - Sandstone	Carnian Age
6	98m N	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
7	234m N	COT-SDST	Cotgrave Sandstone Member - Sandstone	Carnian Age
8	236m S	COT-SDST	Cotgrave Sandstone Member - Sandstone	Carnian Age
9	254m S	COT-SDST	Cotgrave Sandstone Member - Sandstone	Carnian Age
10	254m N	EDW-MDST	Edwalton Member - Mudstone	Carnian Age
11	258m S	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
12	278m S	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age
13	500m NW	EDW-MDST	Edwalton Member - Mudstone	Carnian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

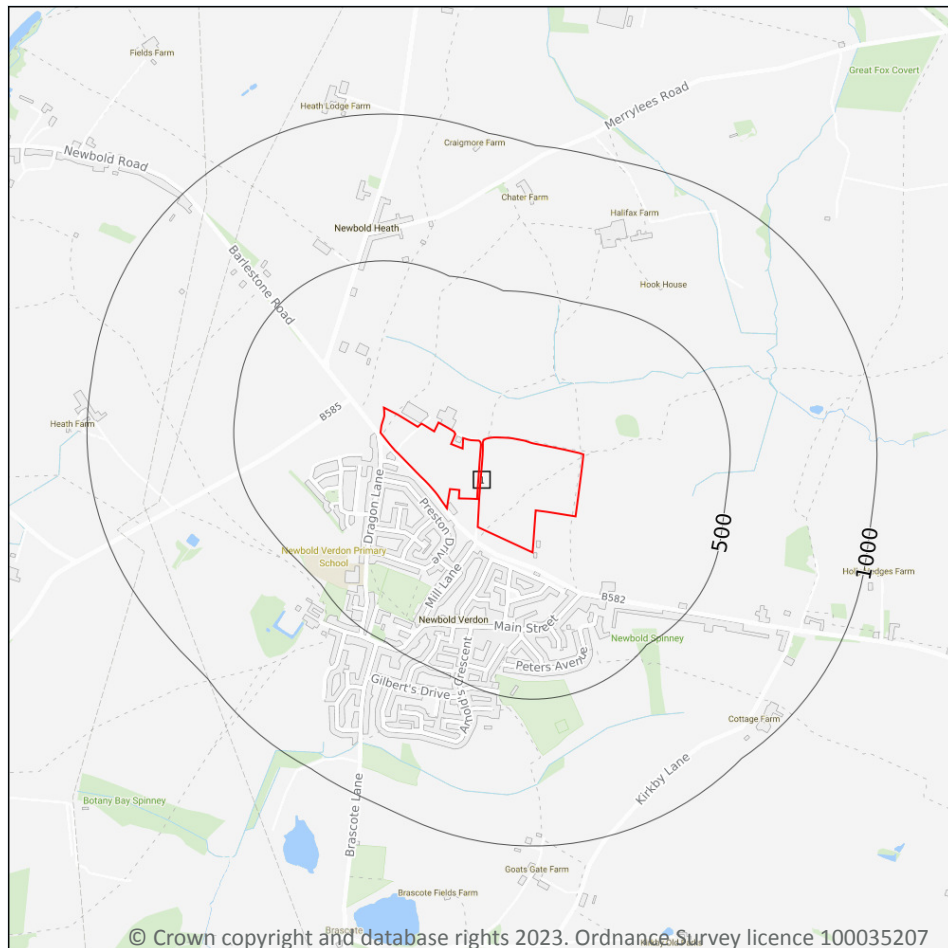
0

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 71](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW155_coalville_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

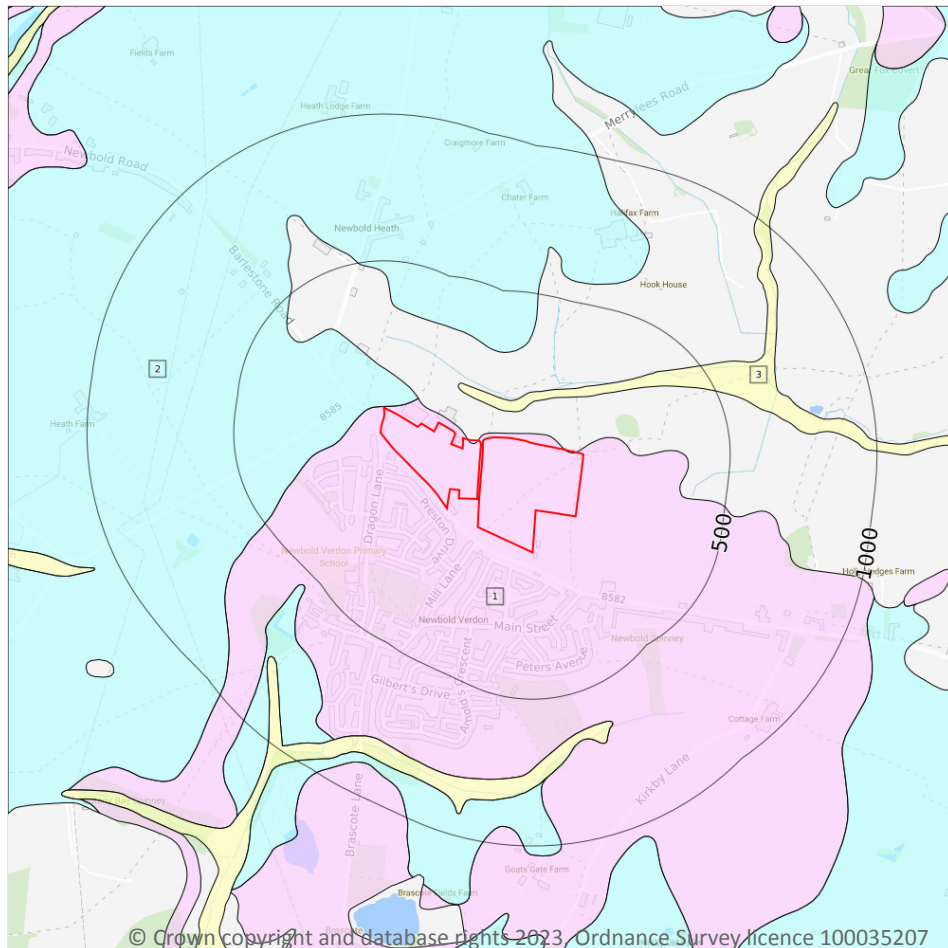
0

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

3

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 73](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
2	4m NW	ODT-DMTN	OADBY MEMBER	DIAMICTON
3	91m N	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m

3

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
4m NW	Mixed	Moderate	Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

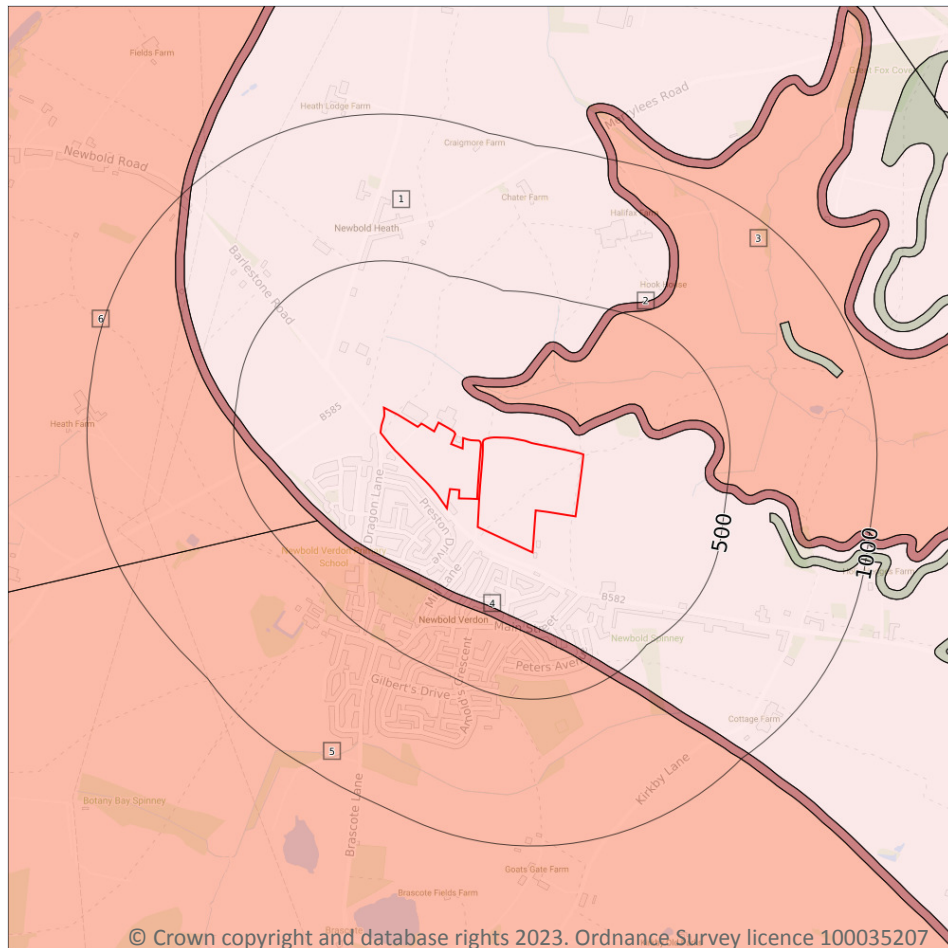
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

6

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

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

ID	Location	LEX Code	Description	Rock age
1	On site	EDW-MDST	EDWALTON MEMBER - MUDSTONE	CARNIAN
2	59m NE	COT-SDST	COTGRAVE SANDSTONE MEMBER - SANDSTONE	CARNIAN
3	90m NE	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
4	227m S	COT-SDST	COTGRAVE SANDSTONE MEMBER - SANDSTONE	CARNIAN



ID	Location	LEX Code	Description	Rock age
5	257m S	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
6	357m W	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2
---------------------------	----------

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

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

This data is sourced from the British Geological Survey.

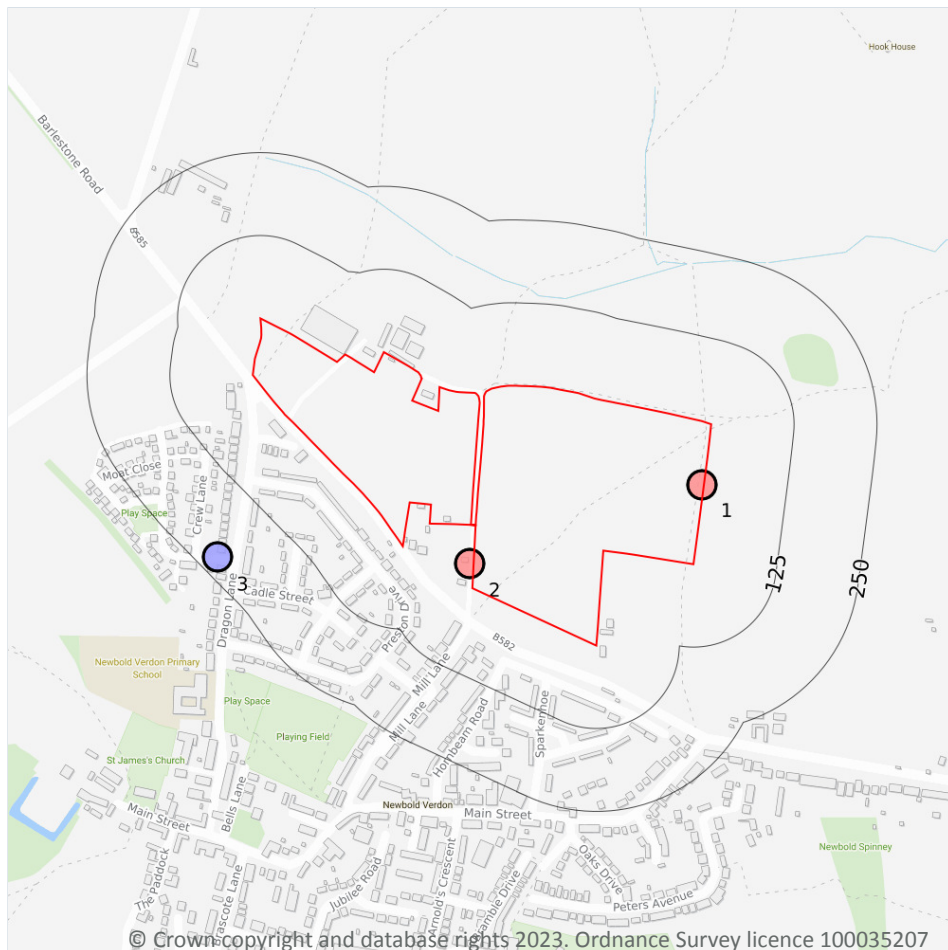
15.10 Bedrock faults and other linear features (50k)

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



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

3

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

Features are displayed on the Boreholes map on [page 77](#) >

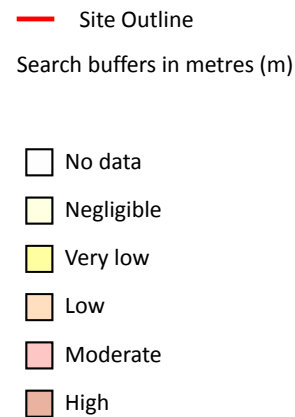
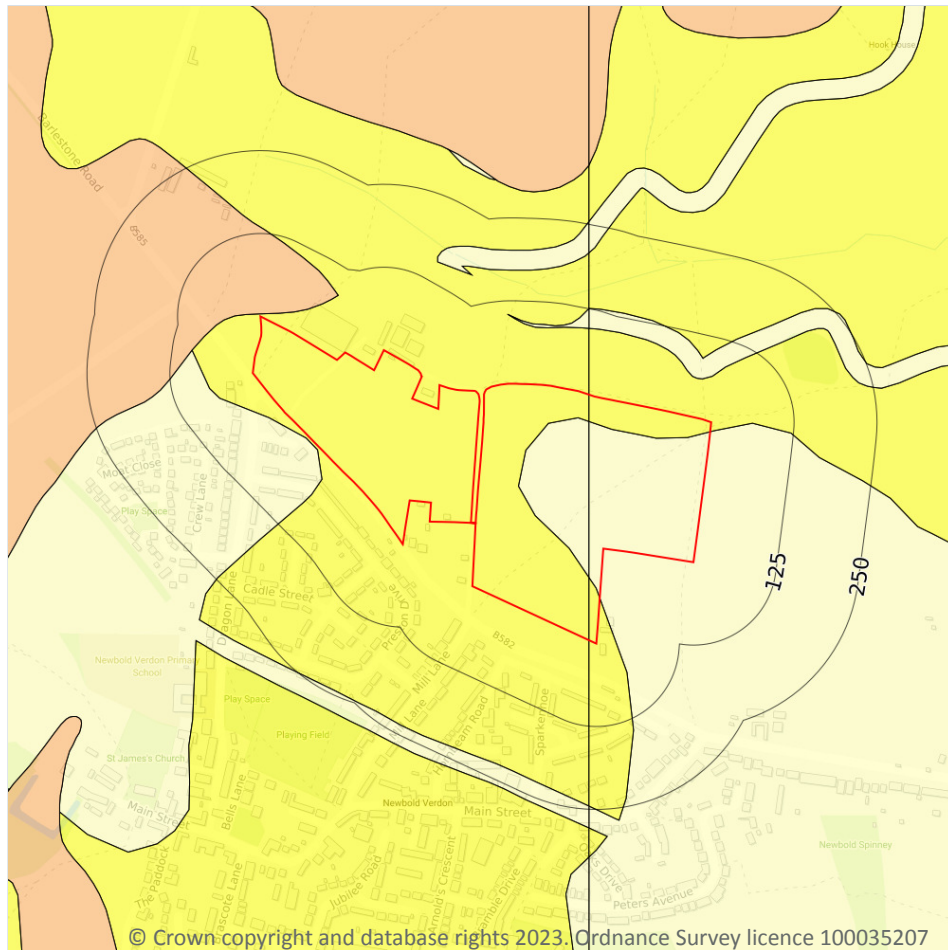
ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	445170 304250	THE FIELDS BH3 NEWBOLD VERDON	159.41	N	216346 ↗
2	6m S	444820 304130	THE FIELDS 1	158.8	N	216426 ↗
3	224m W	444440 304140	NEWBOLD VERDON	1.52	N	216429 ↗



This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

4

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

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

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
4m NW	Low	Ground conditions predominantly medium plasticity.

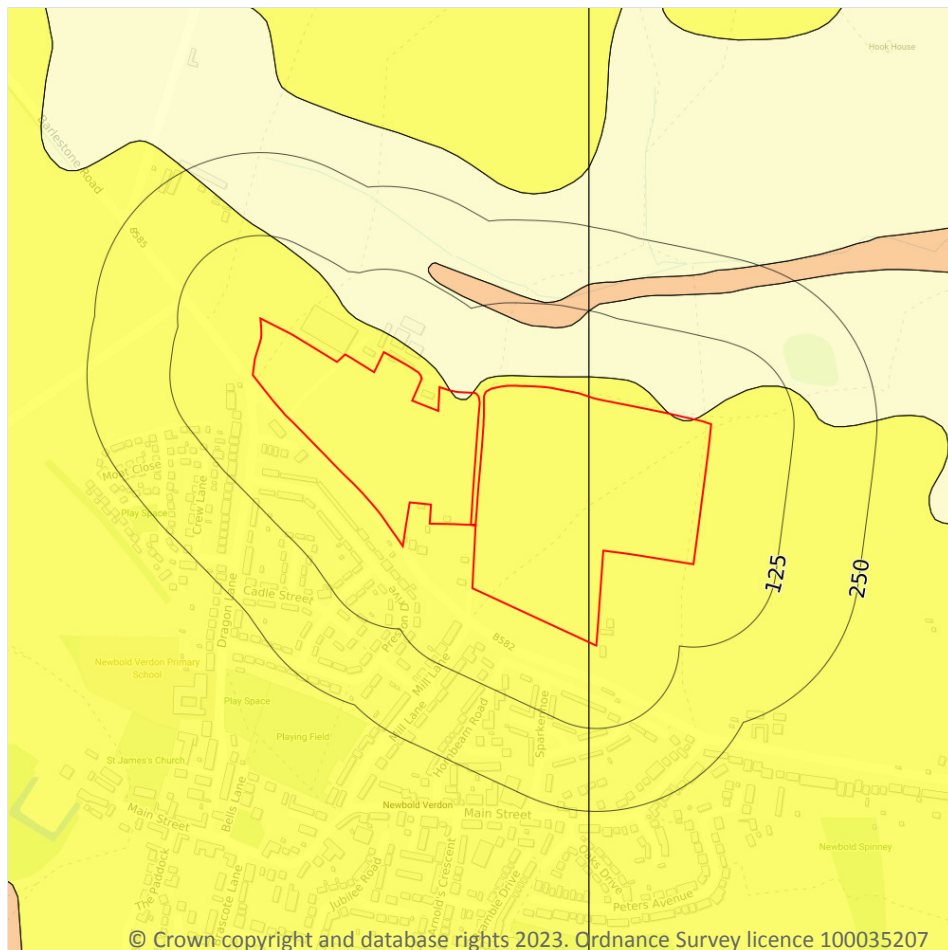


Location	Hazard rating	Details
5m W	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

2

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

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

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.

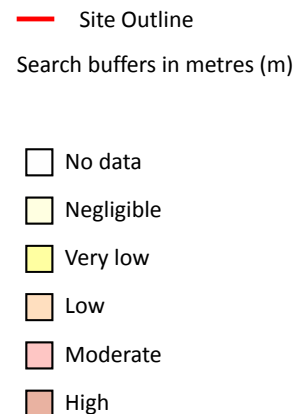
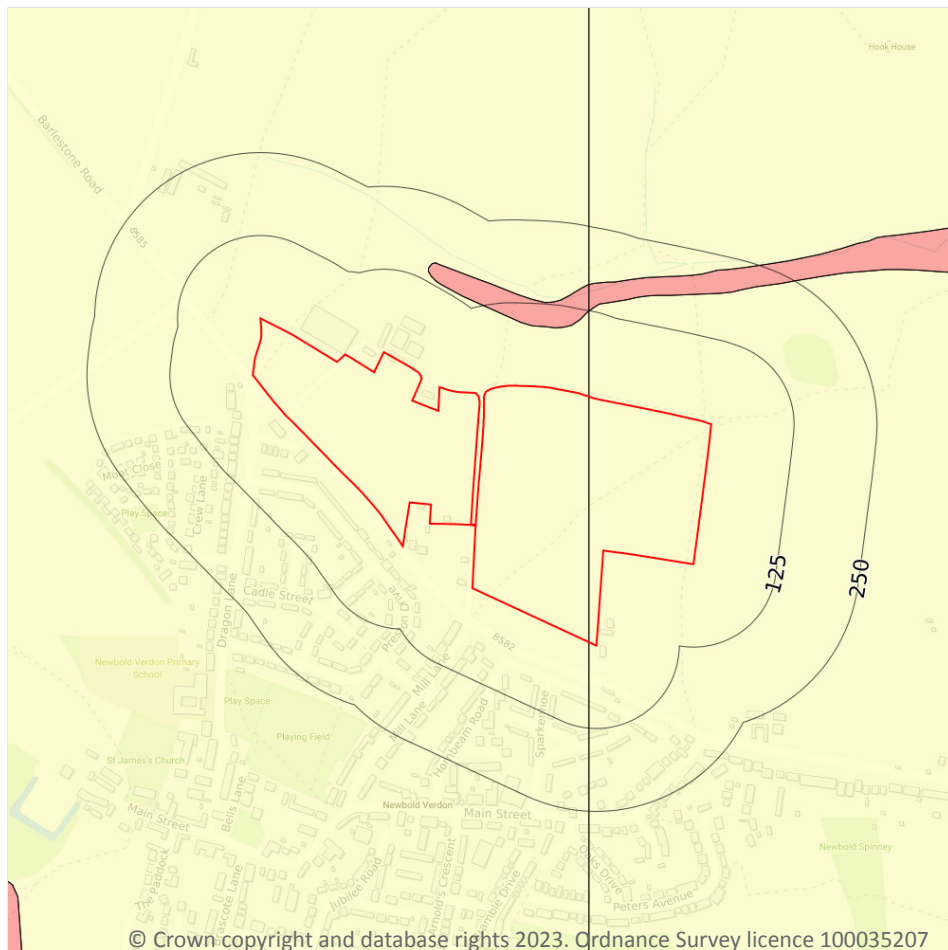


Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

1

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

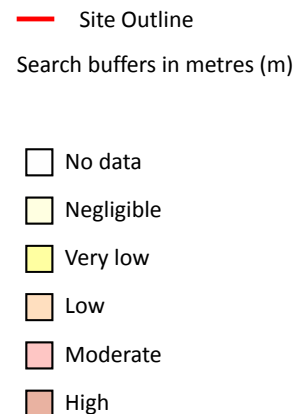
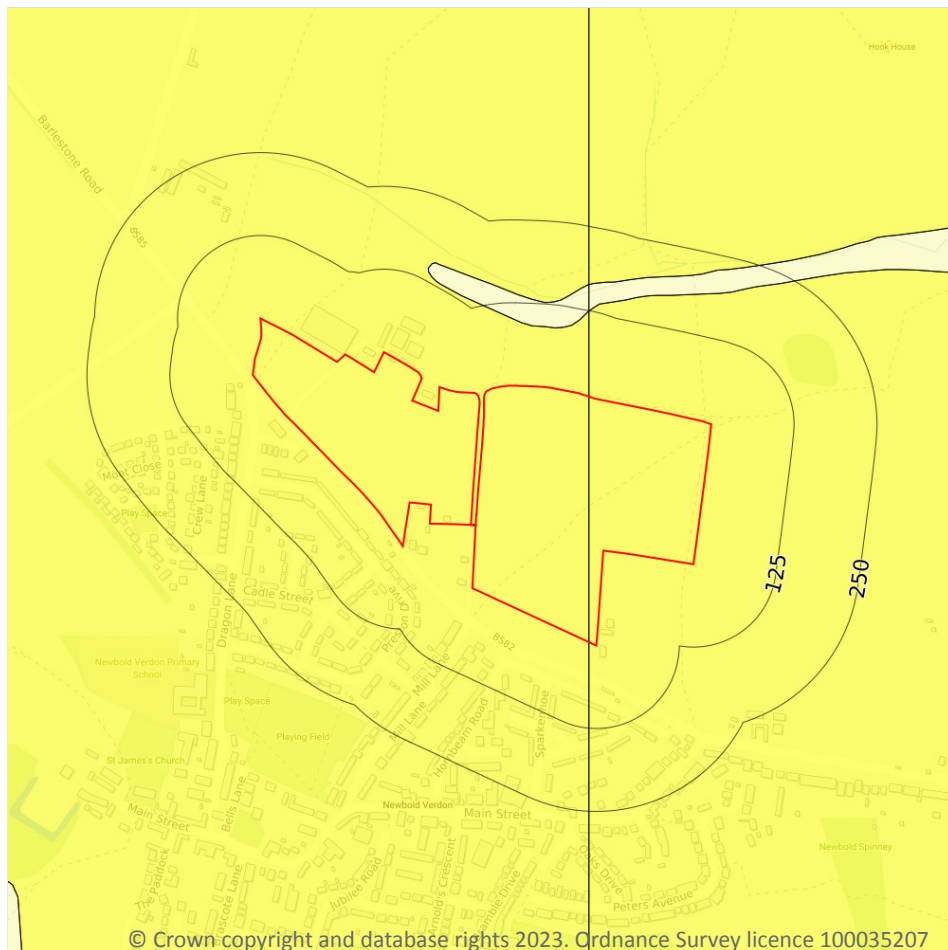
Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 83](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

1

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

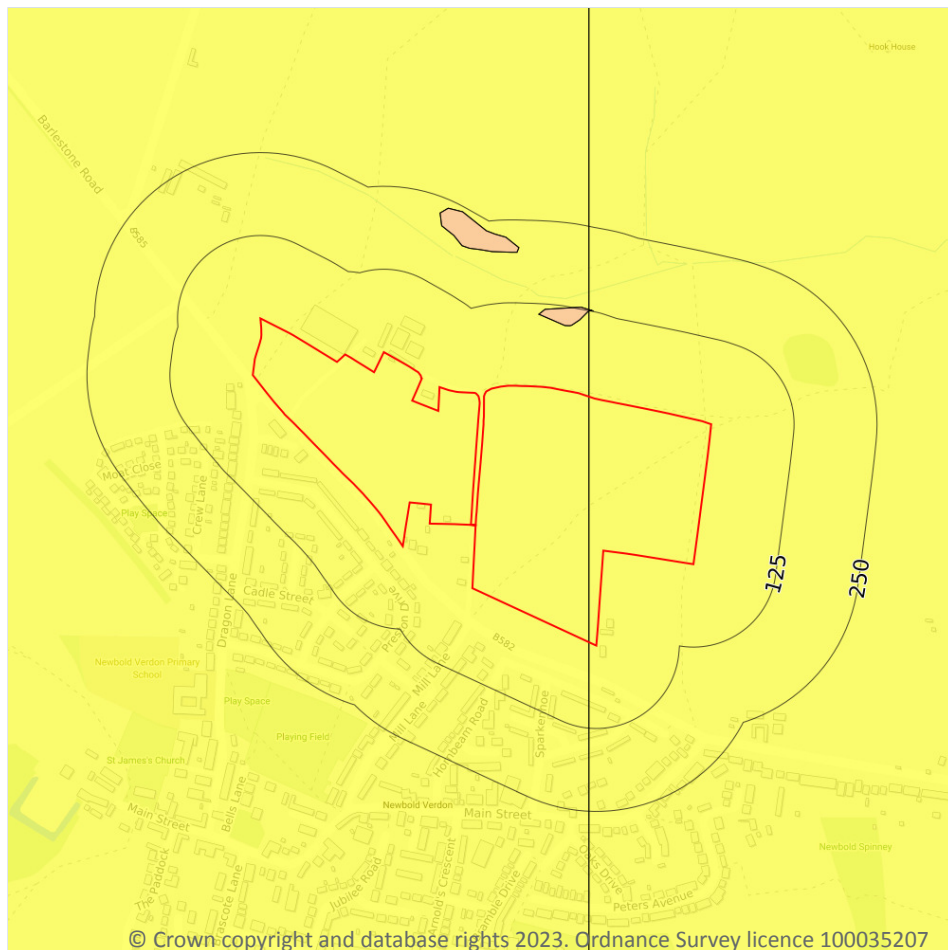
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 84 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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

17.5 Landslides

Records within 50m

1

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

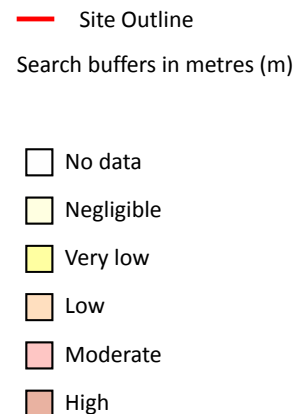
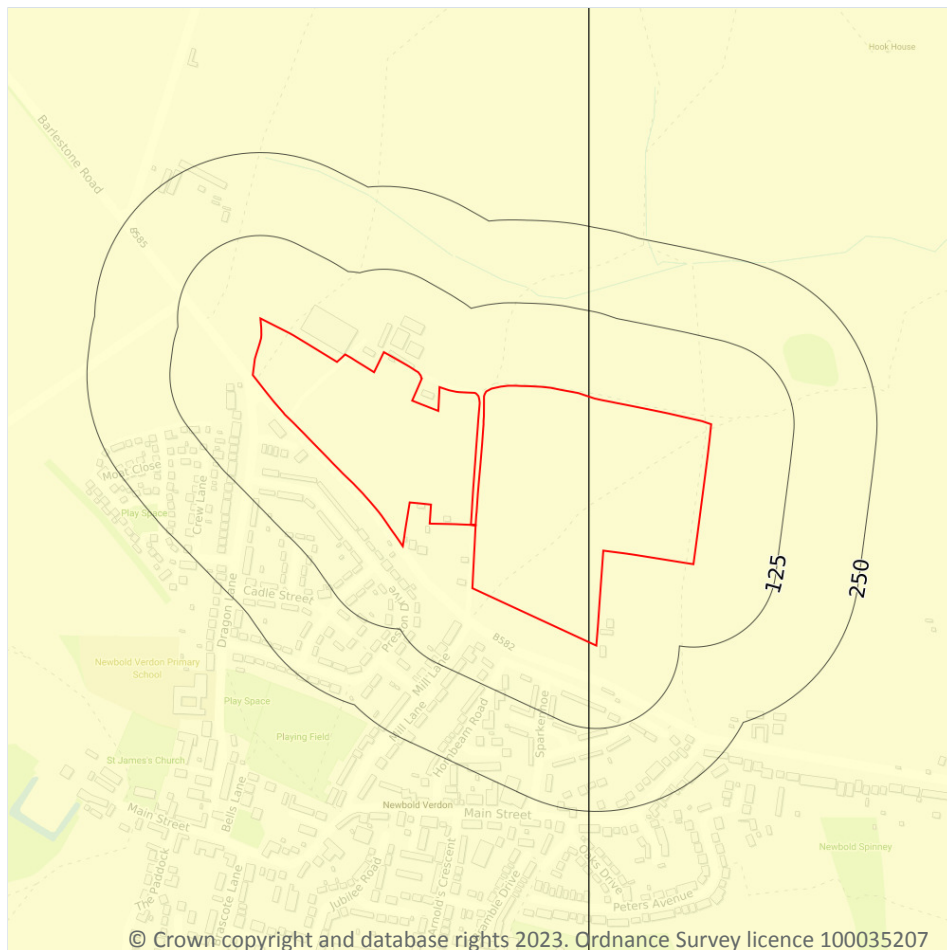
Features are displayed on the Natural ground subsidence - Landslides map on [page 85](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 86](#)

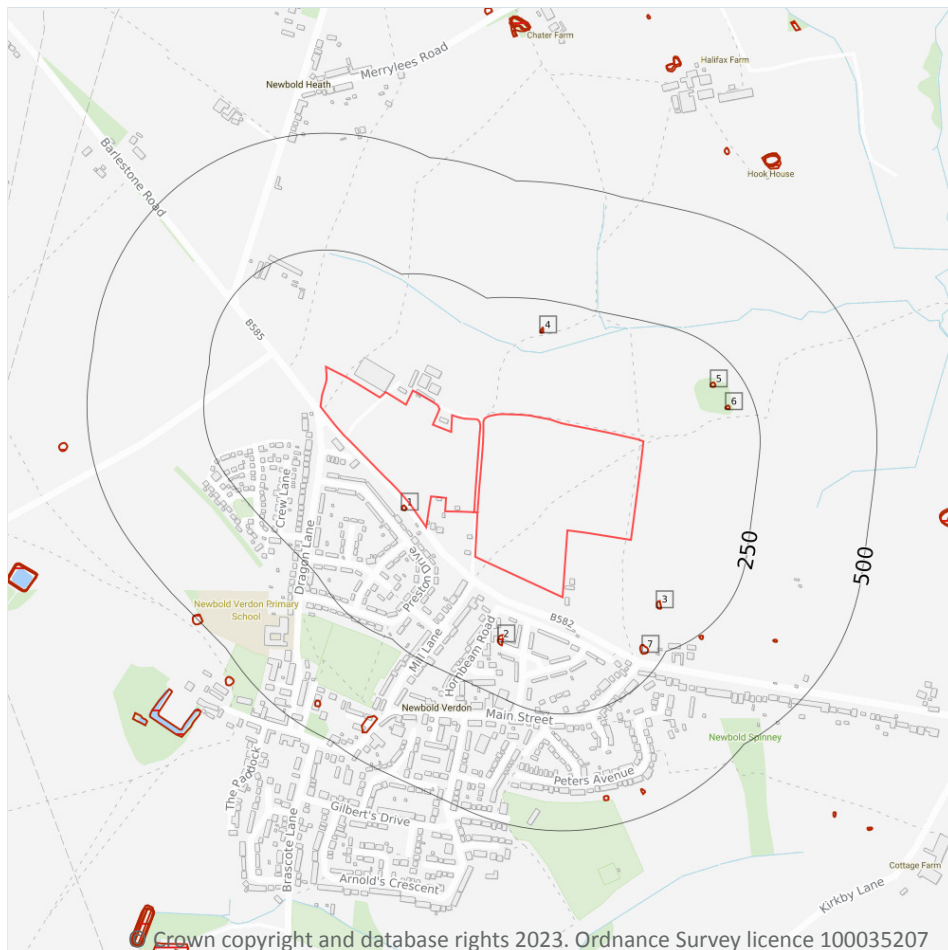
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

7

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

Features are displayed on the Mining and ground workings map on [page 88](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
1	11m W	Pond	1931	1:10560
2	127m S	Pond	1931	1:10560
3	144m SE	Pond	1931	1:10560
4	179m N	Pond	1931	1:10560
5	187m NE	Pond	1931	1:10560
6	189m E	Pond	1931	1:10560
7	197m SE	Pond	1931	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.3 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 data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

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

This data is sourced from Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

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 JPB mining areas

Records on site

1

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

Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk .

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

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

This data is sourced from The Coal Authority.



18.9 Researched mining

Records within 500m

0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m

0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

1

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

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

This data is sourced from the Coal Authority.



18.13 Brine areas

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

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

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

18.14 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

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

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

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

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



This data is sourced from Groundsure.

19.5 National karst database

Records within 500m

0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

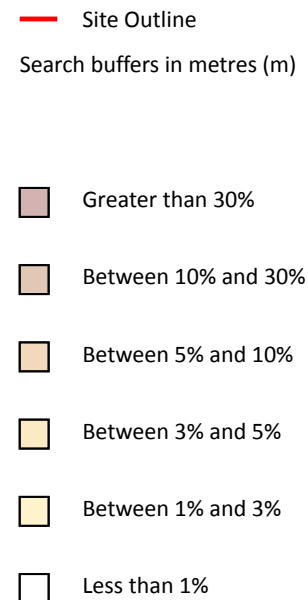
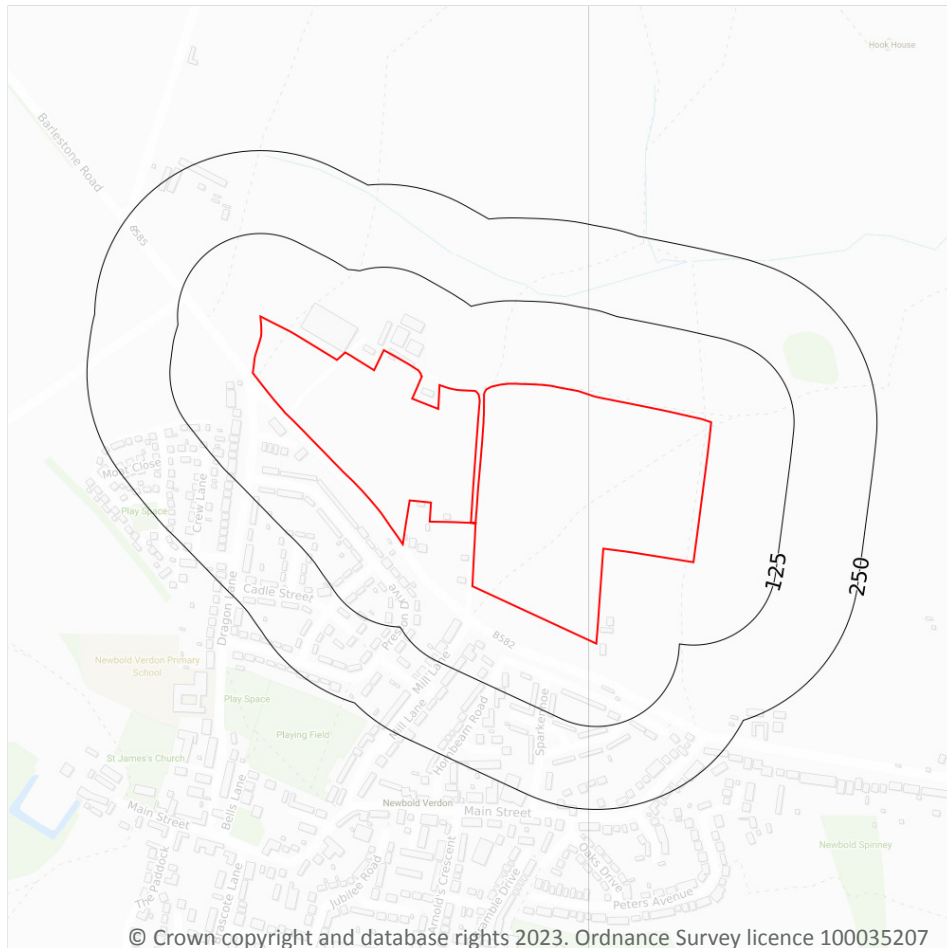
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.



20 Radon



20.1 Radon

Records on site

1

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

Features are displayed on the Radon map on [page 95 >](#)

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



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



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

18

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 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
5m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
5m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
7m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
7m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
11m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
11m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
11m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
11m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
12m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
26m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.



21.2 BGS Estimated Urban Soil Chemistry

Records within 50m**0**

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m**0**

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

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m**0**

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m**0**

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m**0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m**0**

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

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m**0**

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



This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 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.

22.9 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.

22.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-april-2023/> ↗.





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APPENDICES



APPENDIX E

[illegible]

8 September 2023
8 September 2023
8 September 2023

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GS-TD5-XAC-NLE-RSC

Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

GROUNDSURE LIMITED

Enquiry address

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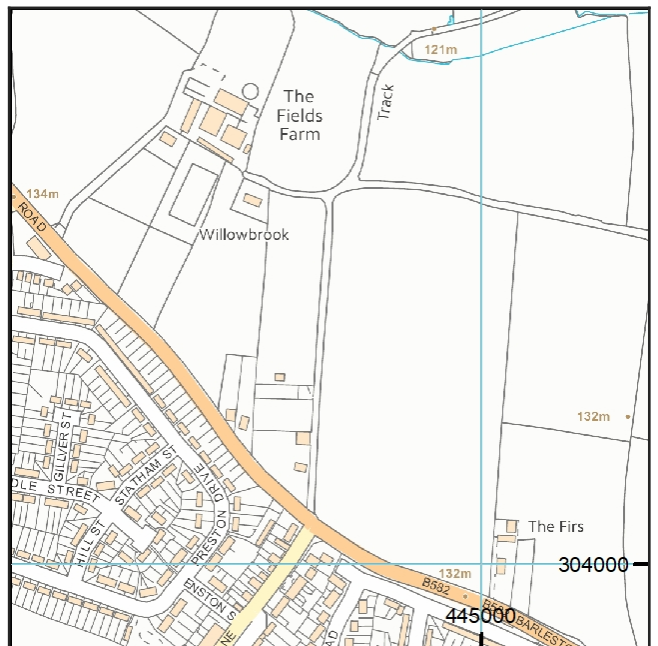
[in/company/the-coal-authority](https://www.linkedin.com/company/the-coal-authority)



f /thecoalauthority



 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
DESFORD	YARD	Coal	5U3P	122	Beneath Property	1.6	North-East	101	1964
DESFORD	LOWER MAIN	Coal	5U8P	123	Beneath Property	2.4	North-East	175	1967
DESFORD	LOWER MAIN	Coal	5UAP	140	North	2.4	North-East	175	1966

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

EM1217	EM1220	EM1219
--------	--------	--------

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is in an area where a notice to withdraw support was given in 1959.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown 

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APPENDICES



APPENDIX F



Doc. Ref.	24832-CALC-0401
Sheet	1
Engineer	JM
Date	13/11/2023
Revision	-

SOIL INFILTRATION CALCULATIONS FRONT SHEET

SCHEME	Barlestone Road, Newbold Verdon, Leicestershire
CLIENT	David Wilson Homes East Midlands
ASPECTS OF SCHEME TO BE DESIGNED	Soil Infiltration Rate Testing
CODES OF PRACTICE, DESIGN SPECIFICATIONS & BRITISH STANDARDS	Soil Infiltration Rate testing and calculations completed in general accordance with BRE Digest 365 utilising the gravel fill method.
NOTES	Six soil infiltration rate test pits were excavated at the locations shown on the attached exploratory hole location plan. The test pits encountered predominantly glaciofluvial soils, typically comprising variably clayey and silty, gravelly, and cobbly SAND. Insufficient infiltration was recorded in four of the test locations due to the high percentage of clay and silt within the soils and groundwater in SA01(2.0m) and SA06(2.20m). Two tests were fully completed in SA04, with the lowest calculated infiltration rate of 5.02×10^{-6} m/s with a test duration over 7 hours. A single test was fully completed in SA03 and derived an infiltration rate of 6.91×10^{-7} m/s with a test duration of over 29 hours. Three additional deeper trial pits were excavated to assess ground conditions and the depth to groundwater. Glaciofluvial soils were confirmed to extend to depths of up to at least 2.80m. Groundwater ingress was noted in TP01 at 2.2m bgl. Given the high fines content within the soils encountered and the presence of shallow groundwater, soakaways will not provide a viable and consistent drainage solution for the site. Very limited infiltration may be available locally subject to confirmation by location specific testing.

INDEX

Pages	Calculations	Checked by	Approved By	Date
02	Exploratory Hole Location Plan			
03	SA01 – Test 1 Insufficient soakage to derive rate.			
04	SA02 – Test 1 Insufficient soakage to derive rate.			
05	SA03 – Test 1 Calculated Rate: 6.91×10^{-7} m/s			
06	SA04 – Test 1 Calculated Rate: 5.53×10^{-6} m/s			
07	SA04 – Test 2 Calculated Rate: 5.02×10^{-6} m/s			
08	SA05 – Test 1 Insufficient soakage to derive rate.			
09	SA06 – Test 1 Insufficient soakage to derive rate.			
10	Exploratory Hole Logs			

**Value in bold represents lowest calculated result.*



- GENERAL NOTES
- DO NOT SCALE THIS DRAWING.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS, ARCHITECTS AND SPECIALIST DESIGN DRAWINGS AND DETAILS.
 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - THIS DRAWING IS FOR STRATEGY PURPOSES ONLY AND IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.

- KEY
- TRIAL PIT LOCATION
 - SOIL INFILTRATION TEST LOCATION
 - APPROXIMATE SITE BOUNDARY

FIRST ISSUE		DW	CW	DT	31.10.23
REV	AMENDMENTS	DRN	CHK	APP	DATE
PROJECT: BARLESTONE ROAD NEWBOLD VERDON LEICESTERSHIRE					
DRAWING TITLE: EXPLORATORY HOLE LOCATION PLAN					
CLIENT: DAVID WILSON HOMES EAST MIDLANDS					
DRAWING NUMBER: 24832_04_140_01					
REVISION: —	SHEET SIZE: A1	SCALE: 1:1000			
STATUS: FOR INFORMATION / APPROVAL					
M·EC Consulting Development Engineers		Telephone: 01530 264 763 Email: group@mec.co.uk Website: www.m-ec.co.uk ORNANCE SURVEY © CROWN COPYRIGHT 2015. ALL RIGHTS RESERVED. LICENCE NUMBER 100055865.			

File Location: T:\MEC Job Box\24832\drawings\04 - geo-env\24832_04_140_01 Exploratory Hole Location Plan.dwg
Printed: 03.11.2023



Scheme Barlestone Road, Newbold Verdon, Leicestershire
Client David Wilson Homes East Midlands
Job ref. 24832

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Date 13/11/23

Soil Infiltration Test - Gravel Filled Method

(In general accordance with BRE Digest 365, 2016, Soakaway Design)

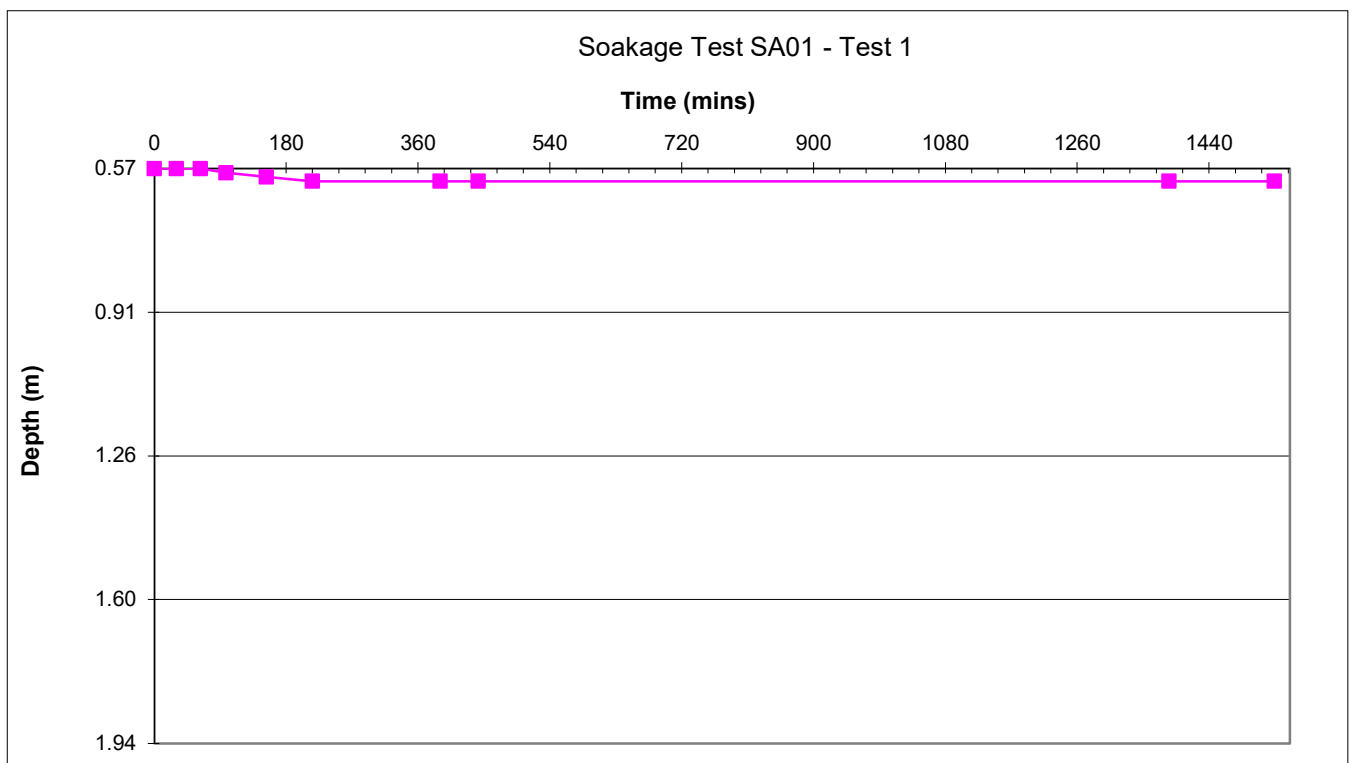
Soakaway pit ref.	SA01	Test 1
Length	2.20 m	
Width	0.60 m	
Depth	1.94 m	
Ground water level	2.00 m	
Ground conditions	0.00-0.35m Grass over brown clayey silty sandy TOPSOIL with gravel sized fragments of flint and quartzite. 0.35-2.10m Brown and orangish brown clayey silty gravelly slightly cobbly SAND. Gravel and cobbles comprise subangular fine to coarse quartzite, flint, and rare green sandstone (GLACIOFLUVIAL DEPOSITS).	

Time (mins)	Depth to water (m bgl)
0	0.57
30	0.57
63	0.57
98	0.58
153	0.59
216	0.60
390	0.60
442	0.60
1385	0.60
1529	0.60

Effective storage depth =	1.37 m
75% effective storage depth =	1.03 m
(ie depth below GL) =	0.91 m
25% effective storage depth =	0.34 m
(ie depth below GL) =	1.60 m
effective storage depth 75%-25% =	0.69 m

Time to fall to 75% effective depth =	- mins
Time to fall to 25% effective depth =	- mins
Void Ratio =	40%
V (75%-25%) =	0.36 m ³
a (50%) =	5.16 m ²
t (75%-25%) =	- mins

Insufficient soakage to derive infiltration rate.





Scheme Barlestone Road, Newbold Verdon, Leicestershire
Client David Wilson Homes East Midlands
Job ref. 24832

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Soil Infiltration Test - Gravel Filled Method

(In general accordance with BRE Digest 365, 2016, Soakaway Design)

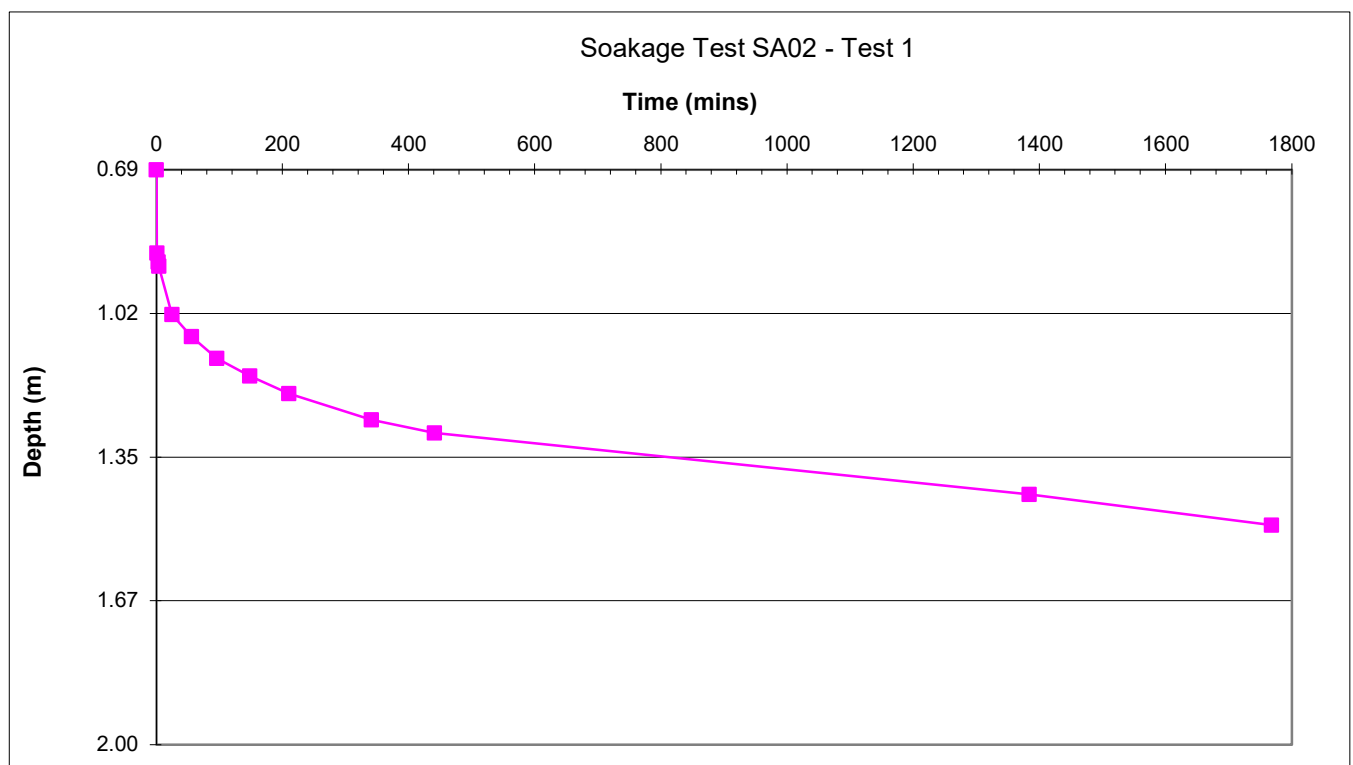
Soakaway pit ref.	SA02	Test 1
Length	2.20 m	
Width	0.60 m	
Depth	2.00 m	
Ground water level	Not encountered	
Ground conditions	0.00-0.30m Grass over brown slightly clayey silty sandy TOPSOIL with gravel sized fragments of flint and quartzite. 0.30-2.00m Brown and orangish brown slightly clayey silty gravelly slightly cobbly SAND. Gravel and cobbles comprise subangular quartzite, flint, and rare green sandstone (GLACIOFLUVIAL DEPOSITS).	

Time (mins)	Depth to water (m bgl)
0	0.69
1	0.88
3	0.90
4	0.91
25	1.02
56	1.07
96	1.12
148	1.16
210	1.20
341	1.26
441	1.29
1384	1.43
1768	1.50

Effective storage depth =	1.31 m
75% effective storage depth =	0.98 m
(ie depth below GL) =	1.02 m
25% effective storage depth =	0.33 m
(ie depth below GL) =	1.67 m
effective storage depth 75%-25% =	0.66 m

Time to fall to 75% effective depth =	25 mins
Time to fall to 25% effective depth =	- mins
Void Ratio =	40%
V (75%-25%) =	0.35 m ³
a (50%) =	4.99 m ²
t (75%-25%) =	- mins

Insufficient soakage to derive infiltration rate.





Scheme Barlestone Road, Newbold Verdon, Leicestershire
Client David Wilson Homes East Midlands
Job ref. 24832

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Soil Infiltration Test - Gravel Filled Method

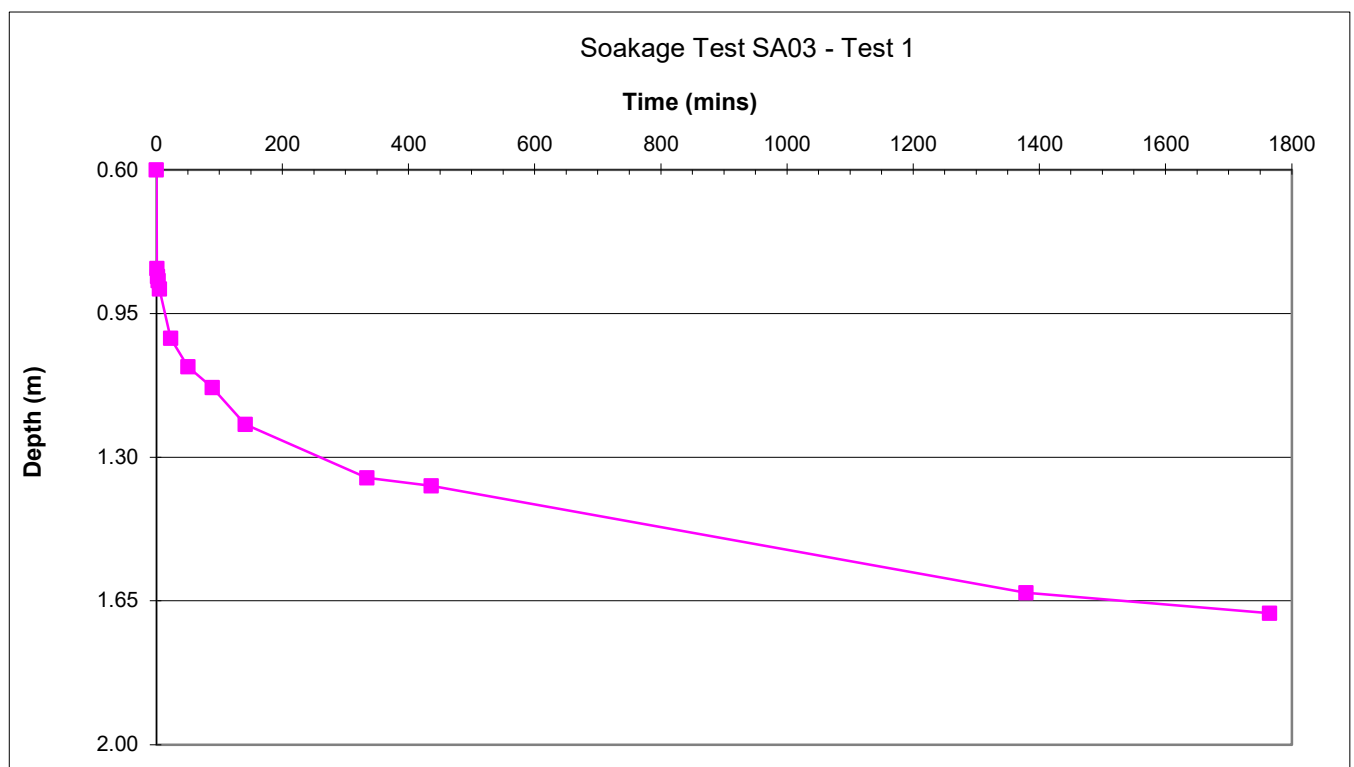
(In general accordance with BRE Digest 365, 2016, Soakaway Design)

Soakaway pit ref.	SA03	Test 1
Length	2.00 m	
Width	0.60 m	
Depth	2.00 m	
Ground water level	Not encountered	
Ground conditions	0.00-0.30m Grass over brown slightly clayey silty sandy TOPSOIL with gravel sized fragments of flint and quartzite. 0.30-2.00m Brown and orangish brown slightly clayey silty gravelly slightly cobbly SAND. Gravel and cobbles comprise subangular quartzite and flint (GLACIOFLUVIAL DEPOSITS).	

Time (mins)	Depth to water (m bgl)
0	0.60
1	0.84
2	0.86
3	0.87
5	0.89
23	1.01
50	1.08
89	1.13
141	1.22
334	1.35
436	1.37
1379	1.63
1765	1.68

Effective storage depth =	1.40 m
75% effective storage depth =	1.05 m
(ie depth below GL) =	0.95 m
25% effective storage depth =	0.35 m
(ie depth below GL) =	1.65 m
effective storage depth 75%-25% =	0.70 m
Time to fall to 75% effective depth =	25 mins
Time to fall to 25% effective depth =	1700 mins
Void Ratio =	40%
V (75%-25%) =	0.34 m ³
a (50%) =	4.84 m ²
t (75%-25%) =	1675.00 mins

SOIL INFILTRATION RATE = 6.91E-07 m/s





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Client David Wilson Homes East Midlands
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Soil Infiltration Test - Gravel Filled Method

(In general accordance with BRE Digest 365, 2016, Soakaway Design)

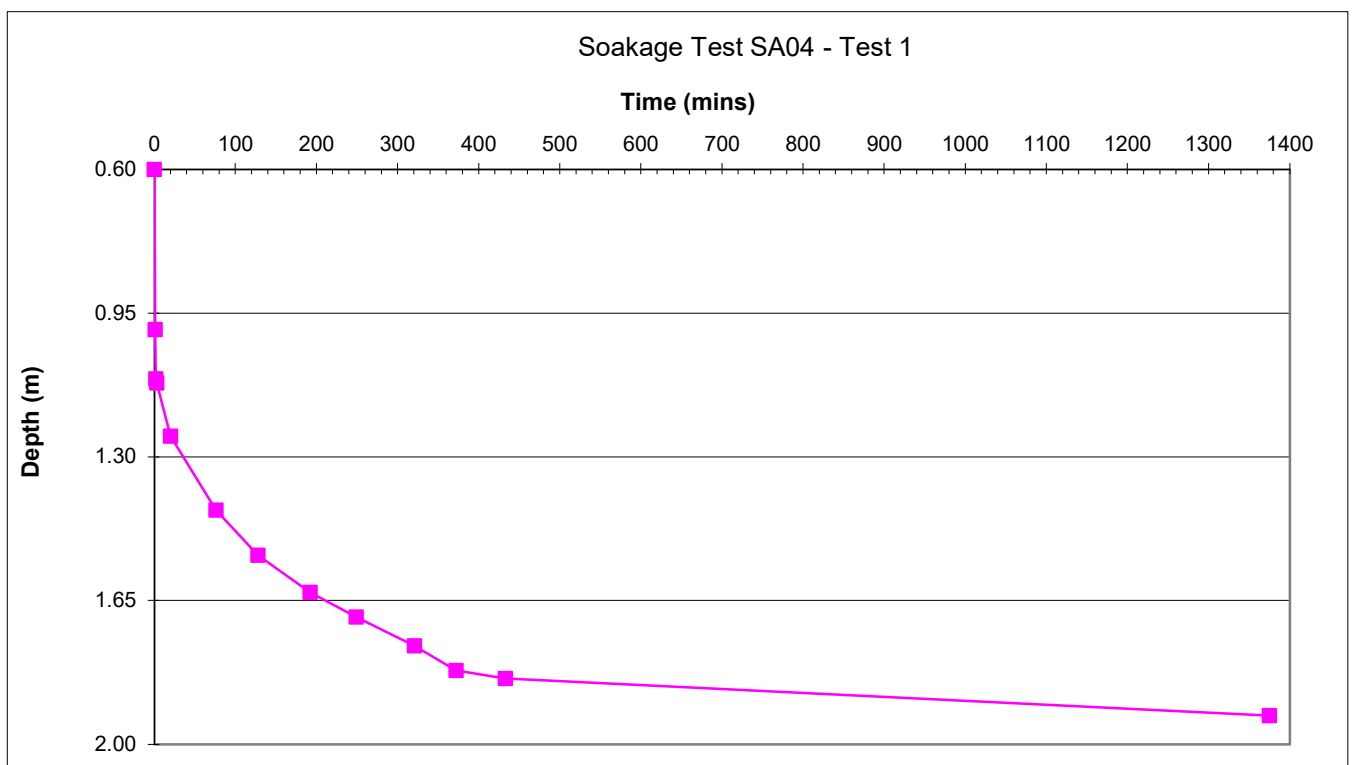
Soakaway pit ref.	SA04	Test 1
Length	2.00 m	
Width	0.60 m	
Depth	2.00 m	
Ground water level	Not encountered	
Ground conditions	0.00-0.40m Grass over brown slightly clayey silty sandy TOPSOIL with gravel sized fragments of flint and quartzite. 0.40-2.00m Brown and orangish brown slightly clayey silty gravelly slightly cobbly SAND. Gravel and cobbles comprise subangular quartzite, sandstone, and flint (GLACIOFLUVIAL DEPOSITS).	

Time (mins)	Depth to water (m bgl)
0	0.60
1	0.99
2	1.11
3	1.12
20	1.25
76	1.43
128	1.54
192	1.63
249	1.69
321	1.76
372	1.82
433	1.84
1375	1.93

Effective storage depth =	1.40 m
75% effective storage depth =	1.05 m
(ie depth below GL) =	0.95 m
25% effective storage depth =	0.35 m
(ie depth below GL) =	1.65 m
effective storage depth 75%-25% =	0.70 m

Time to fall to 75% effective depth =	0.9 mins
Time to fall to 25% effective depth =	210 mins
Void Ratio =	40%
V (75%-25%) =	0.34 m ³
a (50%) =	4.84 m ²
t (75%-25%) =	209.10 mins

SOIL INFILTRATION RATE = 5.53E-06 m/s





Scheme Barlestone Road, Newbold Verdon, Leicestershire
Client David Wilson Homes East Midlands
Job ref. 24832

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Soil Infiltration Test - Gravel Filled Method

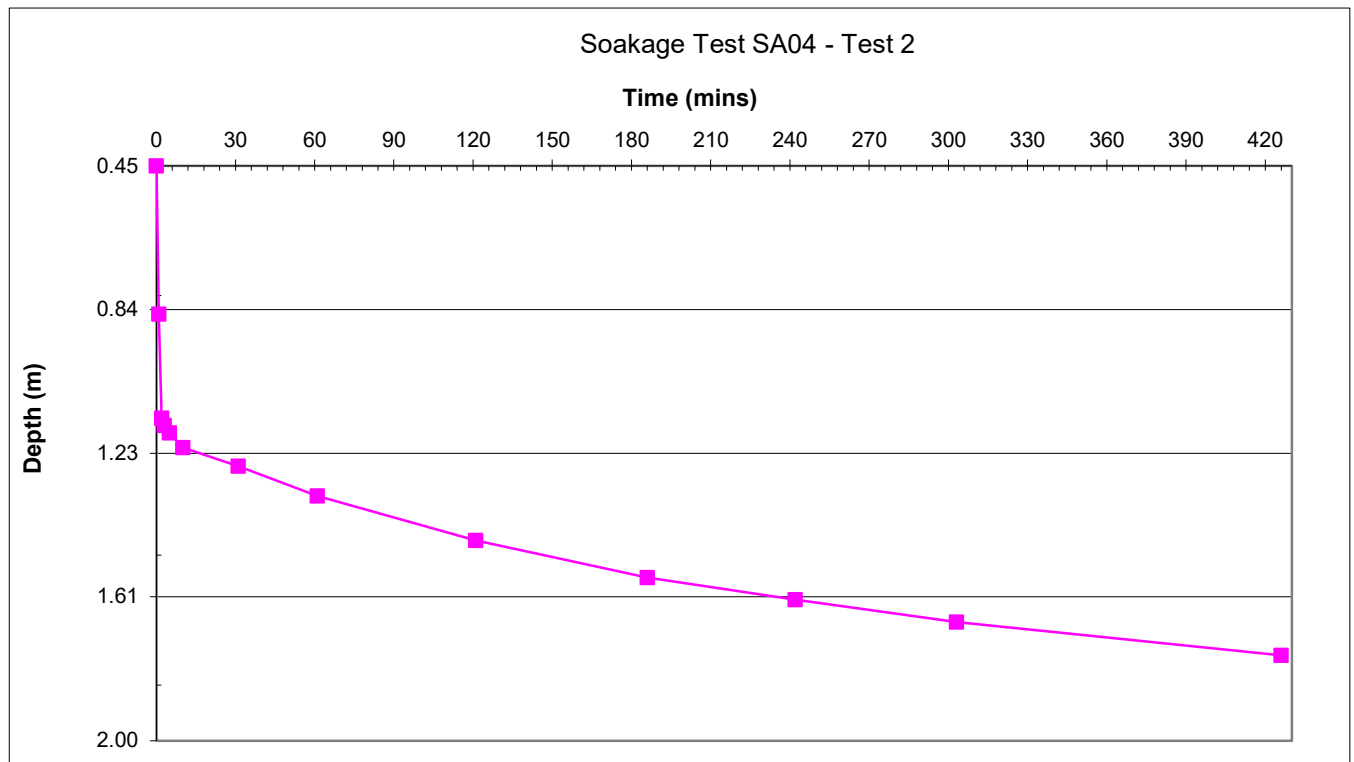
(In general accordance with BRE Digest 365, 2016, Soakaway Design)

Soakaway pit ref.	SA04	Test 2
Length	2.00 m	
Width	0.60 m	
Depth	2.00 m	
Ground water level	Not encountered	
Ground conditions	0.00-0.40m Grass over brown slightly clayey silty sandy TOPSOIL with gravel sized fragments of flint and quartzite. 0.40-2.00m Brown and orangish brown slightly clayey silty gravelly slightly cobbly SAND. Gravel and cobbles comprise subangular quartzite, sandstone, and flint (GLACIOFLUVIAL DEPOSITS).	

Time (mins)	Depth to water (m bgl)
0	0.45
1	0.85
2	1.13
3	1.15
5	1.17
10	1.21
31	1.26
61	1.34
121	1.46
186	1.56
242	1.62
303	1.68
426	1.77

Effective storage depth =	1.55 m
75% effective storage depth =	1.16 m
(ie depth below GL) =	0.84 m
25% effective storage depth =	0.39 m
(ie depth below GL) =	1.61 m
effective storage depth 75%-25% =	0.78 m
Time to fall to 75% effective depth =	1 mins
Time to fall to 25% effective depth =	237 mins
Void Ratio =	40%
V (75%-25%) =	0.37 m ³
a (50%) =	5.23 m ²
t (75%-25%) =	236.00 mins

SOIL INFILTRATION RATE = 5.02E-06 m/s





Scheme Barlestone Road, Newbold Verdon, Leicestershire
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Job ref. 24832

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Soil Infiltration Test - Gravel Filled Method

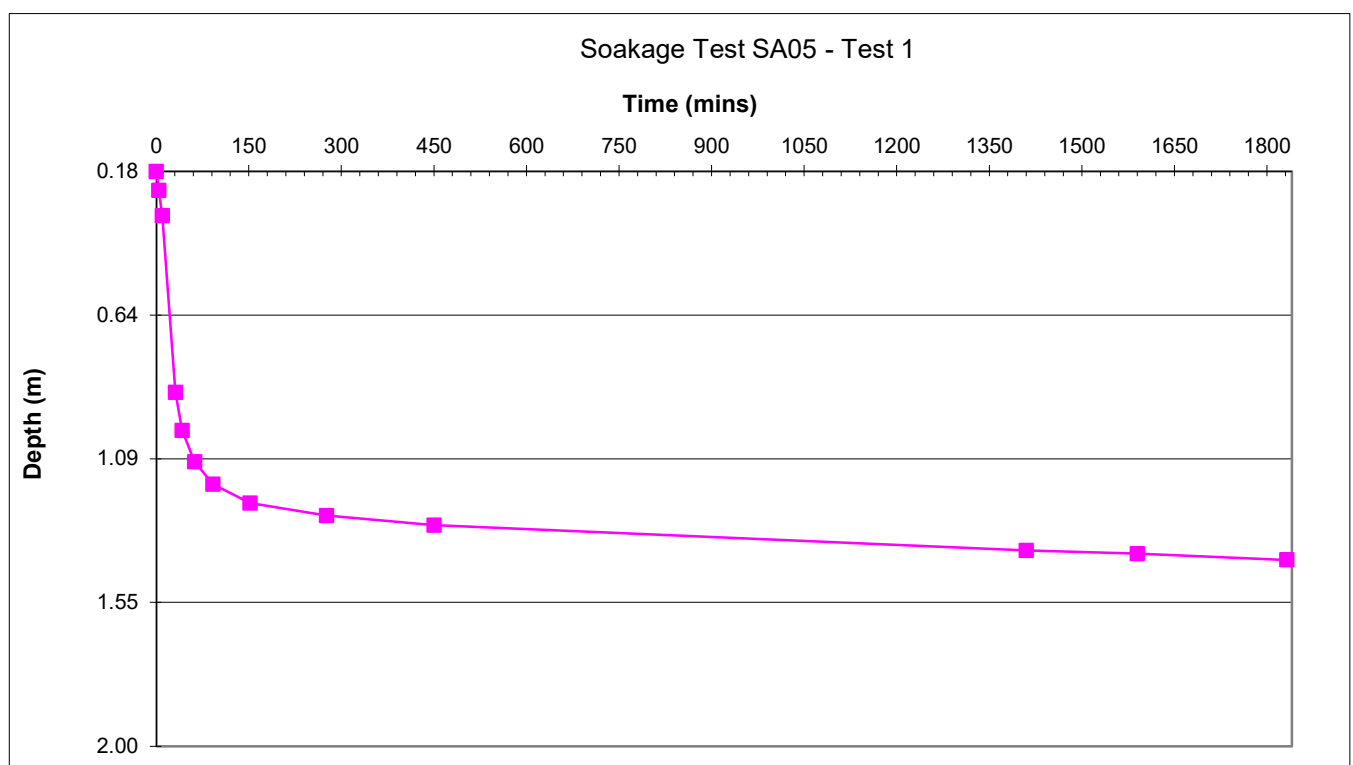
(In general accordance with BRE Digest 365, 2016, Soakaway Design)

Soakaway pit ref.	SA05	Test 1
Length	2.00 m	
Width	0.60 m	
Depth	2.00 m	
Ground water level	Not encountered	
Ground conditions	0.00-0.25m MADE GROUND: Grass over brown slightly clayey silty sandy topsoil with rare gravel sized fragments brick. 0.25-1.70m Brown sandy silty CLAY. (GLACIOFLUVIAL DEPOSITS) 1.70-2.00m Brown clayey slightly gravelly slightly cobbly SAND. Gravel and cobbles comprise subangular to subrounded quartzite, flint and rare green sandstone (GLACIOFLUVIAL DEPOSITS).	

Time (mins)	Depth to water (m bgl)
0	0.18
4	0.24
10	0.32
31	0.88
42	1.00
62	1.10
92	1.17
152	1.23
276	1.27
450	1.30
1410	1.38
1590	1.39
1832	1.41

Effective storage depth =	1.82 m
75% effective storage depth =	1.37 m
(ie depth below GL) =	0.64 m
25% effective storage depth =	0.46 m
(ie depth below GL) =	1.55 m
effective storage depth 75%-25% =	0.91 m
Time to fall to 75% effective depth =	21.8 mins
Time to fall to 25% effective depth =	- mins
Void Ratio =	40%
V (75%-25%) =	0.44 m ³
a (50%) =	5.93 m ²
t (75%-25%) =	- mins

Insufficient soakage to derive infiltration rate.





Scheme Barlestone Road, Newbold Verdon, Leicestershire
Client David Wilson Homes East Midlands
Job ref. 24832

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Soil Infiltration Test - Gravel Filled Method

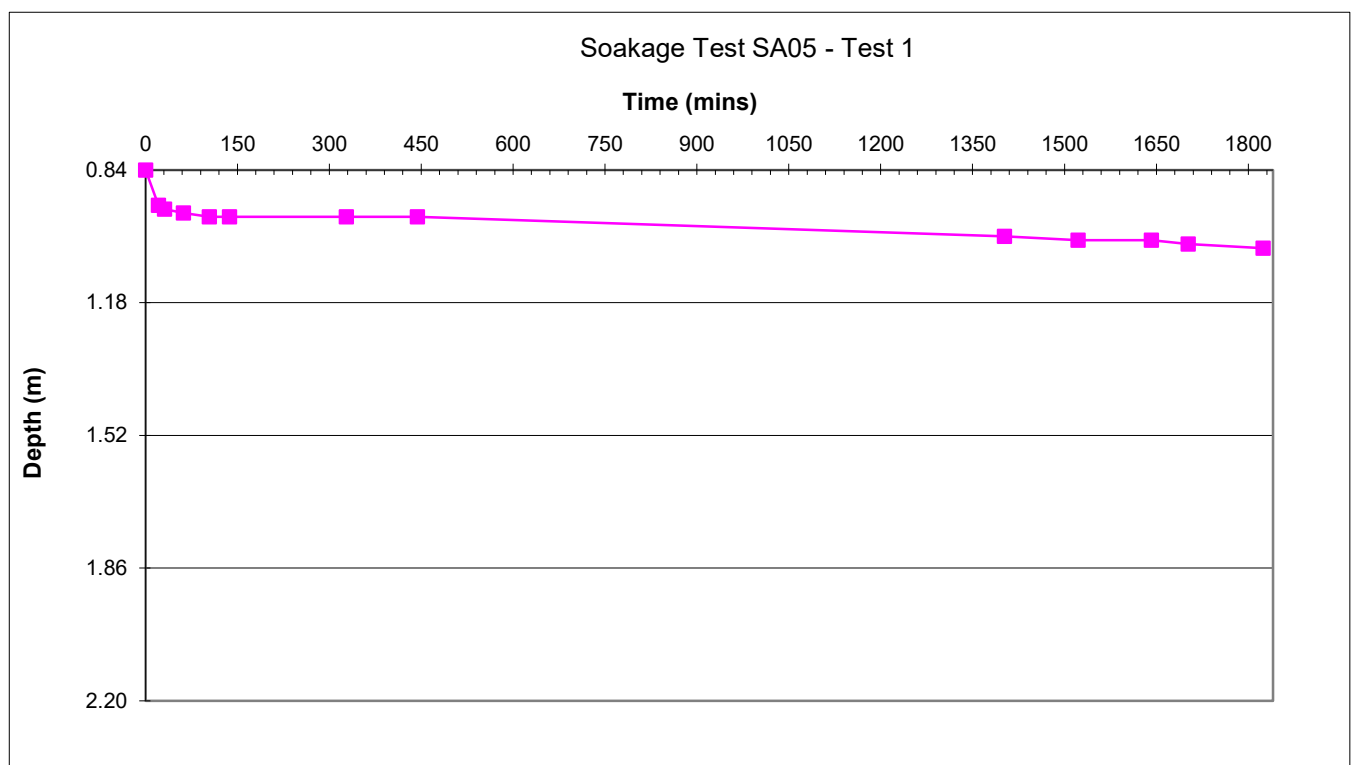
(In general accordance with BRE Digest 365, 2016, Soakaway Design)

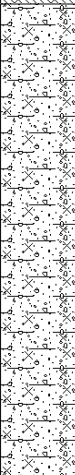
Soakaway pit ref.	SA06	Test 1
Length	2.10 m	
Width	0.60 m	
Depth	2.20 m	
Ground water level	2.20 m	
Ground conditions	0.00-0.40m Grass over brown slightly clayey silty sandy TOPSOIL with gravel sized fragments of flint and quartzite. 0.40-2.20m Brown locally orange clayey silty slightly gravelley slightly cobbly SAND. Gravel and cobbles comprise subangular to subrounded flint and quartzite (GLACIOFLUVIAL DEPOSITS).	

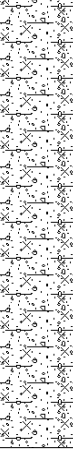
Time (mins)	Depth to water (m bgl)
0	0.84
21	0.93
31	0.94
62	0.95
104	0.96
137	0.96
328	0.96
444	0.96
1402	1.01
1522	1.02
1642	1.02
1702	1.03
1824	1.04

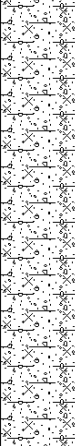
Effective storage depth =	1.36 m
75% effective storage depth =	1.02 m
(ie depth below GL) =	1.18 m
25% effective storage depth =	0.34 m
(ie depth below GL) =	1.86 m
effective storage depth 75%-25% =	0.68 m
Time to fall to 75% effective depth =	- mins
Time to fall to 25% effective depth =	- mins
Void Ratio =	40%
V (75%-25%) =	0.34 m ³
a (50%) =	4.93 m ²
t (75%-25%) =	- mins

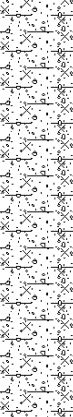
Insufficient soakage to derive infiltration rate.

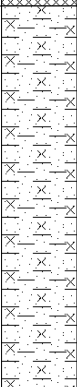


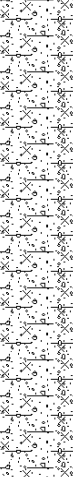
 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		SA01 Sheet 1 of 1				
Project: Barlestone Road, Newbold Verdon		Project No. 24832	Start Date: 08/11/2023		End Date: 08/11/2023	Plant Used: JCB 3CX			
Location: Leicestershire, LE9 9NE		Logged By: CC	Easting and Northing Co-ordinates:			Elevation (m AOD):			
Client: David Wilson Homes East Midlands		Approved By: DT							
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)	
					Type		Depth		
Grass over brown clayey, silty, sandy TOPSOIL with gravel sized fragments of flint and quartzite.			0.35						
Brown and orangish brown, clayey, silty, gravelly, SAND with low cobble content. Gravel is subangular fine to coarse of quartzite, flint, and rare green sandstone. Cobbles are of sandstone. GLACIOFLUVIAL DEPOSITS									
End of Trial Pit			2.10						2.00 ▼
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater ingress at 2.0m bgl. Visual or olfactory evidence of contamination was not observed. Soakage testing was undertaken at this exploratory hole location.				Dimensions: Width: 0.60m Length: 2.20m Depth: 2.10m		Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading			
Stability: STABLE									

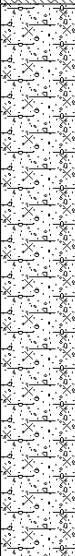
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Project: Barlestone Road, Newbold Verdon		Project No. 24832	Start Date: 08/11/2023	End Date: 08/11/2023	Plant Used: JCB 3CX			
Location: Leicestershire, LE9 9NE		Logged By: CC	Easting and Northing Co-ordinates:		Elevation (m AOD):			
Client: David Wilson Homes East Midlands		Approved By: DT						
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)
					Type	Depth		
Grass over brown slightly clayey, silty, sandy TOPSOIL with gravel sized fragments of flint and quartzite.			0.30					
Brown and orangish brown, slightly clayey, silty gravelly, SAND with low cobble content. Gravel is subangular fine to coarse of quartzite, flint, and rare green sandstone. Cobbles are of sandstone. GLACIOFLUVIAL DEPOSITS			2.00					
End of Trial Pit								
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed. Soakage testing was undertaken at this exploratory hole location.				Dimensions: Width: 0.60m Length: 2.20m Depth: 2.00m		Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading		
Stability: STABLE								

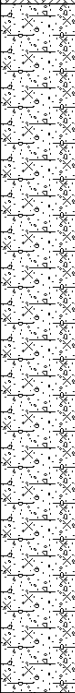
 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB		Exploratory Hole ID:		SA03 Sheet 1 of 1				
Project: Barlestone Road, Newbold Verdon		Project No. 24832	Start Date: 08/11/2023	End Date: 08/11/2023	Plant Used: JCB 3CX			
Location: Leicestershire, LE9 9NE		Logged By: CC	Easting and Northing Co-ordinates:		Elevation (m AOD):			
Client: David Wilson Homes East Midlands		Approved By: DT						
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)
					Type	Depth		
Grass over brown slightly clayey, silty, sandy TOPSOIL with gravel sized fragments of flint and quartzite.			0.30					
Brown and orangish brown, slightly clayey, silty, gravelly, SAND with low cobble content. Gravel is subangular fine to coarse of quartzite and flint. Cobbles are of sandstone. GLACIOFLUVIAL DEPOSITS			2.00					
End of Trial Pit								
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed. Soakage testing was undertaken at this exploratory hole location.				Dimensions: Width: 0.60m Length: 2.00m Depth: 2.00m		Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading		
Stability: STABLE								

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB		Exploratory Hole ID:		SA04 Sheet 1 of 1					
Project: Barlestone Road, Newbold Verdon		Project No. 24832		Start Date: 08/11/2023		End Date: 08/11/2023		Plant Used: JCB 3CX	
Location: Leicestershire, LE9 9NE		Logged By: CC		Easting and Northing Co-ordinates:				Elevation (m AOD):	
Client: David Wilson Homes East Midlands		Approved By: DT							
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)	
					Type	Depth			
Grass over brown slightly clayey, silty, sandy TOPSOIL with gravel sized fragments of flint and quartzite.			0.40						
Brown and orangish brown, slightly clayey, silty, gravelly, SAND with low cobble content. Gravel is subangular fine to coarse of quartzite, sandstone, and flint. Cobbles are of sandstone. GLACIOFLUVIAL DEPOSITS			2.00						
End of Trial Pit									
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed. Soakage testing was undertaken at this exploratory hole location.					Dimensions: Width: 0.60m Length: 2.00m Depth: 2.00m		Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading		
Stability: STABLE									

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB		Exploratory Hole ID:		SA05 Sheet 1 of 1					
Project: Barlestone Road, Newbold Verdon		Project No. 24832		Start Date: 08/11/2023		End Date: 08/11/2023		Plant Used: JCB 3CX	
Location: Leicestershire, LE9 9NE		Logged By: CC		Easting and Northing Co-ordinates:				Elevation (m AOD):	
Client: David Wilson Homes East Midlands		Approved By: DT							
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests		Groundwater (m)
					Type	Depth			
MADE GROUND: Grass over brown slightly clayey silty sandy topsoil with rare gravel sized fragments brick.			0.25						
Brown sandy, silty, CLAY. GLACIOFLUVIAL DEPOSITS			1.70						
Brown, clayey, slightly gravelly, SAND with low cobble content. Gravels are subangular to subrounded, fine to coarse of quartzite, flint and rare green sandstone. Cobbles are of sandstone. GLACIOFLUVIAL DEPOSITS			2.00						
End of Trial Pit									
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed. Soakage testing was undertaken at this exploratory hole location.					Dimensions: Length: 2.00m Width: 0.60m Depth: 2.00m		Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading		
Stability: STABLE									

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		SA06 Sheet 1 of 1				
Project: Barlestone Road, Newbold Verdon		Project No. 24832	Start Date: 08/11/2023		End Date: 08/11/2023	Plant Used: JCB 3CX			
Location: Leicestershire, LE9 9NE		Logged By: CC	Easting and Northing Co-ordinates:			Elevation (m AOD):			
Client: David Wilson Homes East Midlands		Approved By: DT							
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)	
					Type		Depth		
Grass over brown, slightly clayey, silty, sandy TOPSOIL with gravel sized fragments of flint and quartzite.			0.40						
Brown locally orange clayey, silty, slightly gravelly, SAND with low cobble content. Gravels are subangular to subrounded fine to coarse of flint and quartzite. Cobbles are of sandstone. GLACIOFLUVIAL DEPOSITS			2.20						2.20 ▼
End of Trial Pit									
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater ingress as slight seepage at 2.2m bgl. Visual or olfactory evidence of contamination was not observed. Soakage testing was undertaken at this exploratory hole location.				Dimensions: Width: 0.60m Length: 2.10m Depth: 2.20m		Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading			
Stability: STABLE									

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		TP01 Sheet 1 of 1				
Project: Barlestone Road, Newbold Verdon		Project No. 24832	Start Date: 08/11/2023		End Date: 08/11/2023	Plant Used: JCB 3CX			
Location: Leicestershire, LE9 9NE		Logged By: CC	Easting and Northing Co-ordinates:			Elevation (m AOD):			
Client: David Wilson Homes East Midlands		Approved By: DT							
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)	
					Type		Depth		
Grass over brown, slightly clayey, silty, sandy TOPSOIL with gravel sized fragments of flint and quartzite.			0.35						
Brown and orangish brown, clayey, silty, gravelly, SAND with low cobble content. Gravel is subangular fine to coarse of quartzite, flint, and rare green sandstone. Cobbles are of sandstone. GLACIOFLUVIAL DEPOSITS			2.40						2.20 ▼
End of Trial Pit									
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater ingress at 2.2m bgl. Visual or olfactory evidence of contamination was not observed.				Dimensions: Width: 0.60m Length: 2.00m Depth: 2.40m		Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading			
Stability: STABLE									

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB			Exploratory Hole ID:		TP02 Sheet 1 of 1			
Project: Barlestone Road, Newbold Verdon		Project No. 24832	Start Date: 08/11/2023		End Date: 08/11/2023	Plant Used: JCB 3CX		
Location: Leicestershire, LE9 9NE		Logged By: CC	Easting and Northing Co-ordinates:			Elevation (m AOD):		
Client: David Wilson Homes East Midlands		Approved By: DT						
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests	Groundwater (m)
					Type	Depth		
Grass over brown, slightly clayey, silty, sandy TOPSOIL with gravel sized fragments of flint and quartzite.			0.25					
Brown and orangish brown, clayey, silty, gravelly, SAND with low cobble content. Gravel is subangular fine to coarse of quartzite, flint, and rare green sandstone. Cobbles are of sandstone. GLACIOFLUVIAL DEPOSITS			2.80					
End of Trial Pit								
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.				Dimensions: Width: 0.60m Length: 2.00m Depth: 2.80m		Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading		
Stability: STABLE								

 MEC Development Technical Consultants Mewies Engineering Consultants Ltd The Old Chapel, Station Road Hugglescote, Leicestershire LE67 2GB		Exploratory Hole ID:		TP03 Sheet 1 of 1					
Project: Barlestone Road, Newbold Verdon		Project No. 24832		Start Date: 08/11/2023		End Date: 08/11/2023		Plant Used: JCB 3CX	
Location: Leicestershire, LE9 9NE		Logged By: CC		Easting and Northing Co-ordinates:				Elevation (m AOD):	
Client: David Wilson Homes East Midlands		Approved By: DT							
Strata Description		Legend	Depth (m)	Level (m AOD)	Samples		Tests		Groundwater (m)
					Type	Depth			
MADE GROUND: Grass over brown, slightly clayey, silty, sandy topsoil with rare gravel sized fragments brick.			0.30						
Brown and orangish brown, clayey, silty, gravelly, SAND with low cobble content. Gravel is subangular fine to coarse of quartzite, flint, and rare green sandstone. Cobbles are of sandstone. GLACIOFLUVIAL DEPOSITS			2.80						
End of Trial Pit									
Remarks: Exploratory hole location scanned with Cable Avoidance Tool and Signal Generator. Descriptions based on visual inspection by a Geo-environmental engineer. Groundwater was not encountered. Visual or olfactory evidence of contamination was not observed.					Dimensions: Width: 0.60m Length: 2.00m Depth: 2.80m		Key: B - Bulk Sample D - Disturbed Sample ES - Environmental Sample W - Water Sample PID - PID Reading HSV - Hand Shear Vane Reading		
Stability: STABLE									



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