

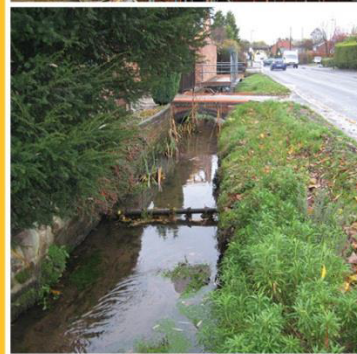


**PROPOSED HOLIDAY LODGE DEVELOPMENT
BARROW HILL QUARRY, MILL LANE,
EARL SHILTON**

PHASE I GEO-ENVIRONMENTAL DESK STUDY

JUNE 2023

REPORT REF: 26726-04-DS-01 Rev A



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CLIENT: AT Contracting & Plant Hire Limited c/o Lion Planning Limited

ENGINEER: Mewies Engineering Consultants Ltd
The Old Chapel
Station Road
Hugglescote
Leicestershire
LE67 2GB

Tel:

Email

Date	Rev	Comment	Prepared By	Checked By	Approved By
September 2021	-	First issue	Natasha Kearn BSc (Hons) Geo-Environmental Engineer	Christopher Wall MSc BSc (Hons) AMIEnvSc Senior Geo-Environmental Engineer	David Torrance BSc (Hons) CGeol FGS Associate Director Geo-Environmental
June 2023	A	Layout updated	Daniel Webb BSc (Hons) FGS Geo-Environmental Engineer	Christopher Wall MSc BSc (Hons) AMIEnvSc Senior Geo-Environmental Engineer	David Torrance BSc (Hons) CGeol FGS Associate Director Geo-Environmental

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1.0 INTRODUCTION

Commission

- 1.1 M-EC Consulting Development Engineers (M-EC) was commissioned by AT Contracting & Plant Hire Limited c/o Lion Planning Limited, to undertake a Phase I Geo-environmental Desk Study at Barrow Hill Quarry, Mill Lane, Earl Shilton LE9 7TR. A site location plan is presented in Appendix A.

Proposals

- 1.2 It is understood that the site is proposed for development with 36 holiday lodges and an ancillary management building in the north. A draft Site Plan with a proposed layout of the lodges is included in Appendix A.

Objectives

- 1.3 This report presents pertinent information regarding the environmental risks and liabilities associated with the site. It has been completed to fulfil the requirements of a preliminary risk assessment in accordance with BS10175: 2011 'Investigation of Potentially Contaminated Sites Code of Practice' and Land Contamination Risk Management (LCRM). The objectives of the report are:
- To assess historical activities at the site with respect to their potential impact on the environment;
 - To characterise the environmental setting of the site, identify migration pathways and receptors vulnerable to contamination, focusing on potential soil and groundwater liabilities;
 - To assess historical and current surrounding land use in relation to known or potential off-site contamination issues that may impact the subject property;
 - To develop a preliminary Conceptual Site Model (CSM);
 - To assess potential environmental liabilities associated with the site; and
 - To assess potential geotechnical constraints to the proposed development.
- 1.4 This report has been commissioned in order to support the submission of a full planning application for the proposed development and to establish preliminary requirements in terms of contaminant remediation and foundation, floor slabs and infrastructure design.

Scope of Works

1.5 The scope of works for this assessment includes:

- Site walkover to identify surface features or activities that may impact on the proposed development (photographic record included in Appendix B);
- Review of the following information:
 - Historical Ordnance Survey mapping (Appendix C);
 - Environmental reports that include but are not restricted to the following data: environmental and hydrological, waste, hazardous substances register, geological, industrial and sensitive land uses and pollution incidents (Appendix D);
 - British Geological Survey (BGS) online GeoIndex and borehole logs;
 - Zetica – regional unexploded bomb risk maps (www.zetica.com);
 - Environment Agency website (www.environment-agency.gov.uk).
- Production of a Geo-environmental Desk Study (this report) providing qualitative contamination and geotechnical risk assessments and a review of potential constraints to the proposed development.

Limitations

1.6 This report has been prepared for AT Contracting & Plant Hire Limited only and should not be relied upon by any third party without the written permission of M-EC. This report should be read in its entirety, including all associated drawings and appendices. M-EC 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 within this report and which M-EC believes are reliable. All reasonable care and skill have been applied in examining the information obtained, nevertheless M-EC cannot and does not guarantee the authenticity or reliability of the information it has relied upon from external sources.

1.7 Should additional information become available which may affect the opinions expressed in this report, M-EC reserves the right to review this information and, if warranted, to modify the opinions presented in the report accordingly.

1.8 It should be noted that the risks which are identified in this report are perceived risks based on the available information at the time of writing and that the actual risks associated can only be assessed following a physical investigation of the site.

2.0 SITE SETTING AND DESCRIPTION

Site and Setting	
A site walkover survey was undertaken on 17 th August 2021.	
Site Address	Barrow Hill Quarry, Mill Lane, Earl Shilton LE9 7TR
National Grid Coordinates	448809, 297112
Site Description	The site covers an area of approximately 2.86ha and comprises primarily undeveloped open scrub land, formerly occupied by a quarry and crossed by gravel tracks. The previous vehicular access was via Mill Lane (Photo 1), although concrete bollards have since been placed to prevent trespassing. A second access, partially obstructed by a concrete block, and apparently used by pedestrians and cyclists, is located off Mill Lane to the north of the previous vehicular access (Photo 5). The topography is irregular with elevated mounds and depressions; however, the site is generally split over two levels, comprising a lower level in the east and an upper level in the west. A quarry high wall face is exposed on the northern boundary (Photo 2), with Mill Lane immediately beyond. The site is covered with areas of presumably self-seeded semi-mature trees and shrubs. Remnants of a fire were evident close to the site access (Photo 4) and various waste material were noted across the site area, including a car bumper and tyre (Photo 6). Photos 3, 7 and 8 display a general view looking across the site area. The site boundaries are formed by wooden/wire fencing, with semi-mature trees forming the southern site boundary. The site is bordered to the north and east by Mill Lane. The remainder of the site is bordered by fields. A pond is located on the south-eastern boundary.
Historical Review	
The site history has been assessed by reviewing 1: 2,500 and 1: 10,000 scale historical Ordnance Survey mapping. A summary of the history of the site and surroundings is provided below.	
On-site Historical Summary	The earliest mapping inspected, dating from 1886, indicates that the site was occupied by Union Windmill (corn) in the north, Barrow Hill Quarry in the east and Rock Farm with associated agricultural buildings in the west/south-west at this time. A pump was recorded within the courtyard of the farm and a pond was located adjacent to the west. Open land was recorded in the west and south.

	By 1903, additional buildings had been added in the north associated with the windmill and in the east within the quarry which had extended westwards. A well was also recorded in the base of the quarry. By 1916, Barrow Hill Quarry had extended further westwards. The pump associated with Rock Farm and the well within the quarry were no longer recorded by this time. By 1950, the Union Windmill, Rock Farm and all associated buildings were no longer recorded and Barrow Hill Quarry which had expanded further west to cover a significant proportion of the site. A single building remained within the base of the quarry in the east. The quarry was recorded as disused by 1963 and a pond occupied the base in the east. Spoil heaps were mapped in the north-east, east and along the southern boundary. The building within the quarry was no longer recorded. By 1983, the pond in the east was no longer recorded but a new pond occupied the majority of the western and central areas of the quarry. Detailed mapping is sparse after this date but more recent aerial photography suggests that the quarry had been at least partially infilled by the mid 1980's and the pond was no longer present. The existing vegetation and tracks across the site have been progressively established since this time.
Off-site Historical Summary	In the latter part of the 19th Century, the area surrounding the site comprised largely undeveloped open land. A tributary of the River Soar was mapped approximately 130m south-west, trending north-west to south-east. The Yennards, and associated agricultural buildings, were located approximately 200–250m south-east. Ponds were recorded approximately 180m north, 200m north-east, 80m south-east and 240m north-west. A well was noted approximately 10m to the north, opposite Mill Lane. By 1903, a quarry had been established to the north of The Yennards approximately 95–180m south-east of the site. Rough pasture was located between the south-eastern boundary of the site and the quarry. Marshland was mapped approximately 200m south. By 1914, the quarry to the south-east had expanded to within 20m of the subject site, and an associated spoil heap was mapped approximately 175m south. The well opposite Mill Lane was no longer mapped. The quarry appears to have reached its full extent by the 1930's and a pond

	had been established by 1963. A tank was recorded adjacent to the quarry/pond at this time, approximately 60m south of the subject site. The Yennards was no longer recorded by 1950. Significant changes are not recorded within the surrounding area since the 1960's other than progressive infilling or silting up of ponds nearby. Recent aerial photography suggests that the tank to the south-east was still present in 2006 but may have been removed after this time.
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3.0 GEO-ENVIRONMENTAL SETTING

Geo-environmental Setting	
A summary of the geo-environmental site setting is provided as follows. Information has been collated from the Groundsure Report	
Geology	The British Geological survey (BGS) online GeoIndex reports that the majority of the site is directly underlain by bedrock deposits of the South Leicestershire Diorite Complex (Quartz-diorite) which was mined from the former quarry. The diorite represents an igneous intrusion into sedimentary deposits of the Cotgrave Sandstone Member, Edwalton Member (Mudstone) and Gunthorpe Member (Mudstone) which may be present in peripheral areas of the former quarry. Superficial deposits of the Thrussington Member (Diamicton) may also be present locally in the north-west and south/south-west in peripheral areas. Worked ground is recorded across the majority of the site relating to the Barrow Hill Quarry and significant thicknesses of Made Ground are anticipated.
Natural Ground Subsidence Hazards	The Groundsure report indicates that the potential for natural ground subsidence is negligible to low.
Mining and Mineral Extraction	The site is not located within a coal mining reporting area as defined by the Coal Authority. Barrow Hill Quarry and Yennards Quarry to the south-east are both identified as BritPits associated with historical extraction of igneous and metamorphic rock.
Hydrogeology	The various superficial and bedrock strata in the general vicinity of the site are all defined as Secondary Aquifers with varying vulnerability by the Environment Agency. The site is not located in a groundwater source protection zone. An active groundwater abstraction license is recorded in the south-east corner of the site, operated by Calor Gas Limited for process water. A historical groundwater abstraction is recorded 93m south relating to a point abstraction for general farming and domestic use by R Jones and Sons. The site is indicated to be at generally negligible to low risk of groundwater flooding.

Hydrology	A pond is located approximately 15m south within the former Yennards Quarry. A tributary of the River Soar is located approximately 130m south-west and the River Soar is located approximately 2.3km south-east. Historical or active surface water abstractions are not recorded within 250m. The site is not at risk of flooding associated with rivers. Localised areas in the west and centre of the site are indicated to be at risk of surface water flooding, presumably associated with topographically low areas within the former quarry. The areas have a maximum modelled flooding risk of 0.3m-1.0m for a 1 in 30-year return period event.
Surface Workings and Ground Gas Sources	Surface workings on site and to the south-east and associated infill and spoil heaps may represent potential ground gas sources. Other potential sources such as historical ponds in the surrounding area may also generate ground gases.
Radon	The site lies within an area where approximately 1-3% of properties are affected by Radon. Accordingly, Radon protection measures will not be required.

4.0 REGULATORY INFORMATION

Regulatory Information	
A summary of pertinent information from the Groundsure Report relating to permits, consents, authorisations and landfilling is provided below.	
Current and Historical Industrial Uses	The former Barrow Hill Quarry is recorded by the database as a recent industrial land use. Two other recent industrial land uses recorded within 250m, relating to the tank recorded on historical maps 58m south and a pylon 103m east. Historical industrial land uses are recorded on site which relate to the former corn mill and subsequent quarrying activities. The database records a tank on site in the area of the corn mill although this circular feature is assessed to represent the former windmill structure. Four historical industrial land uses are recorded within 250m, relating to the quarry associated with the Yennards to the south-east, tramway sidings 99 - 218m south, a refuse heap associated with the quarry 173m south and railway buildings 218–236m south. Note that the 'refuse heap' to the south is not labelled as such by the historical mapping and represents a spoil heap associated with the former Yennards Quarry.
Historical Tanks	A historical tank is recorded within 250m relating to the feature described within the historical section, adjacent to the quarry at The Yennards, 54-61m to the south-east.
Fuel Stations and Historical Garages	Historical or active fuel stations and historical garages are not recorded within 250m.
Waste Management Facilities and Landfill Sites	An recent landfill is recorded on-site, operated by Earl Shilton Recycling Ltd, for the deposition of inert waste. Barrow Hill Quarry was also recorded as a historical landfill, licensed in 1977 to accept industrial waste. The license was surrendered in 2010. More recently, planning applications dated 2016 and 2017 refer to use of the site as a recycling centre by Earl Shilton Recycling Ltd. The scheme involved the restoration of the former Barrow Hill Quarry to an agricultural use with inert waste and soils. Various waste licences are recorded relating to these activities. Other licensed waste activities are recorded in the adjacent quarry area to the south-east dating from 1977 and operated by Aggregate Industries Limited. The amount of waste imported is unclear from the provided information.

Industrial Licences and Authorisations	The following licenses or authorisations are not recorded within 250m of the site: • Regulated explosive sites; • Hazardous substance storage and use; • Historical licensed industrial activities (IPC); • Licensed industrial activities (Part A (1)); • Licensed Pollutant Release (Part A(2)/B) • Radioactive substances authorisations; • Licensed discharge to controlled waters; • Red list discharge consents; • Pollutant release to public sewer; • List 1 and 2 dangerous substances; and • Pollution inventory substances, waste transfers and radioactive waste. A waste exemption is recorded 160m south relating to Land off Mill Lane for storing, treating and re-use of non-agricultural waste.
COMAH, NIHHS and Dangerous Substances	Control of Major Accident Hazards (COMAH) and Notification of Installations Handling Hazardous Substances (NIHHS) licenses are not recorded within 500m of the site.
Pollution Incidents	Pollution incidents are not recorded within 250m.
Part 2A EPA 1990	Sites determined as Contaminated Land under section 78R of the Environmental Protection Act are not recorded within 500m.
National Grid	National Grid high voltage underground electricity transmission cables are not recorded within 500m. A gas pipeline (Blaby to Alrewas) is recorded 63m east.
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 in order to provide a summary of potential ground constraints and opportunities presented below. The following comments and recommendations 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 (e.g., stability, mass structure etc.).

Made Ground	Given the recorded history, it is anticipated that significant Made Ground/worked ground will be present across the majority of the site.
Topsoil	Topsoil is unlikely to be present insignificant quantities.
Earthworks and Engineering Design	Detailed development proposals have not been provided at this stage. The design of foundations for the proposed lodge structures will be dictated by the required performance criteria and the extent of any earthworks required to achieve finished site levels. Timber constructed lodges are likely to be relatively light in terms of loading and may be able to accommodate differential ground movements. In the event that significant loadings are anticipated or if settlements are to be restricted, either for the lodges or other ancillary structures, appropriate measures should be taken to ensure adequate performance by appropriate engineering of the near surface materials. Variable thicknesses of Made Ground of unknown quality are anticipated and appropriate design criteria can only be established through the completion of intrusive investigation. In extreme circumstances, it may be necessary to pile structures.
Buried Obstructions	Buried obstructions may be present associated with historical quarrying activities. If encountered, obstructions should be delineated and removed during enabling works and the voids backfilled with suitably engineered fill.
Trees	Foundation and floor slab designs will need to be adjusted taking into account the potential influence of trees, either existing or proposed, on cohesive soils in the context of detailed development proposals and performance criteria.
Pyritic Geology and Aggressive Ground	Pyritic deposits are not anticipated. The potential for aggressive attack on buried construction materials should be confirmed by appropriate laboratory testing.
Drainage and Soakaways	Given the anticipated presence of significant thicknesses of Made Ground/worked ground across the site, it is considered unlikely that

	soakaways will provide a drainage option for the site.
Roads and Pavements	Where road pavements are proposed, Made Ground encountered at formation will need to be removed, sorted, supplemented and recompactd 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.

Contamination 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:
- Contamination associated with materials used to infill the quarry across the site, including historical licensed landfilling;
 - Migration of contamination from areas of historical quarrying activities and associated tank to the south-east; and
 - Ground gas generated from Made Ground/worked ground on-site and migrating from the quarry to the south-east.
- 6.4 It is therefore considered that the following potential contaminants may impact the site:
- Asbestos;
 - Heavy metals;
 - Polycyclic Aromatic Hydrocarbons (PAH);
 - Total Petroleum Hydrocarbons (TPH); and
 - Ground gases including carbon dioxide and methane.

Preliminary Conceptual Site Model

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

Table 1: Preliminary Conceptual Site Model.			
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 Workers.	Low to Moderate: Contamination within the on-site soils associated with the quarry. Further investigation is required to 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 to Moderate: Shallow contamination, if present, may migrate vertically and laterally and impact the underlying aquifers and laterally via groundwater to impact nearby surface water features. Further investigation is required to confirm the risk to controlled waters and third-party property.
		Underlying Aquifers.	
	Surface water runoff.	Third-party property.	
	Direct contact/soil leaching.	Buried utilities and concrete foundations.	Low: Pyritic deposits are not anticipated beneath the site, however; pH and sulphate testing should be undertaken to confirm the risk to buried utilities and concrete.
Off-site contamination sources	Lateral migration onto site via shallow soils and groundwater.	Construction Workers.	Low to Moderate: Contamination, if present, may migrate to the site from off-site sources. Further investigation is required to confirm if off-site contamination is migrating beneath the site.
		Future Site users.	
		Buried utilities and concrete structures.	
Ground gas generation and migration from quarry infill and Made Ground on-site and in the surrounding area.	Migration through porous soils and accumulation in confined spaces.	Construction workers and future site users.	Moderate: Potential ground gas sources have been identified both on and off-site. Further investigation is required to determine if ground gas protection measures are required for the proposed development. Less than 1% of properties in the area are estimated to exceed the Radon Action Level and Radon protection measures will not be required for the proposed development.

Preliminary CSM and Environmental Risk Assessment

6.6 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 It is considered that the environmental risk at the site is low to moderate with the principal risk drivers being potential contamination associated with infill of the former quarry on-site, migration of contamination from the former quarry off-site and ground gas generated from both on and off-site sources.
- 7.2 Remediation requirements for the site will depend on finalised development proposals. On the assumption that the proposed holiday lodges will not include private gardens, subject to confirmation, it is not considered that significant remediation will be required although there likely may be a requirement for capping of contaminated soils following site regrading.
- 7.3 Gas protection measures may be required if ground bearing structures are proposed and should be confirmed by a programme of monitoring and a detailed ground gas and vapour risk assessment.
- 7.4 It is likely that earthworks will be required to establish proposed levels. Foundation designs for the proposed structures will depend on specific performance criteria and the earthworks should be designed to accommodate the proposed lodges. Piled foundations are likely to be required if significant ground bearing structures are proposed and settlements are to be limited.
- 7.5 The site is considered unlikely to be suitable for traditional soakaways given the anticipated prevalence of Made Ground.

Recommendations

- 7.6 Given the findings of this Desk Study, it is recommended that a Phase II Intrusive Investigation is undertaken to determine the geotechnical properties of the near surface soils, the extent of any contamination and to enable completion of a ground gas risk assessment.
- 7.7 It is recommended that a copy of this report is submitted to the Local Planning Authority to support the planning applications 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.

APPENDIX A

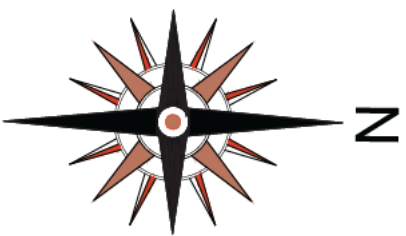
M-EC
The Old Chapel
Station Road
Hugglescote
Leicestershire
LE67 2GB

SITE LOCATION PLAN

Project: Barrow Hill Quarry, Mill Lane, Earl Shilton
File Ref: 26726
O.S. Grid Ref: 448809 297112
Postcode: LE9 7TR



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Schedule
36 x lodges,
Plus management Building
Site area 28500sqm, 7 acres

DRAFT

Barrow Hill Quarry
Earl Shilton

Plans

Scale 1:500 @ A1 Date: Oct 2021
Dwg No. 2001 Revision: -

Brook House Consulting

BHC
72 Boston Road
Leicester
LE4 1TB

Tel: 0116 2716661 E-mail: mail@brookhouseconsulting.com



Landscaping indicative only

APPENDIX B

		Site: Barrow Hill Quarry, Mill Lane, Earl Shilton Project No: 26726 Address: Barrow Hill Quarry, Mill Lane, Earl Shilton LE9 7TR
Photo 1 : Access to the site from Mill Lane.	Photo 2: Quarry high wall located on the northern boundary and showing raised platform in the west.	Client: AT Contracting & Plant Hire Limited c/o Lion Planning Limited
Photo 3: View looking south-east from the northern boundary at the site.	Photo 4: View looking north-west from the south-eastern boundary at the site. Remnants of a fire circled on the left of the photo.	

 Photo 5: Pedestrian access via Mill Lane, north of the vehicular access.	 Photo 6: Discarded car bumper and tyre observed close to the southern boundary.	Site: Barrow Hill Quarry, Mill Lane, Earl Shilton Project No: 26726 Address: Barrow Hill Quarry, Mill Lane, Earl Shilton LE9 7TR
 Photo 7: General view looking west across the raised level in the west.	 Photo 8: View looking east across the site from atop the highwall adjacent to Mill Lane.	Client: AT Contracting & Plant Hire Limited c/o Lion Planning Limited

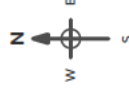
APPENDIX C

Site Details:

STREET RECORD, MILL LANE,
EARL SHILTON, LE97TR

Client Ref: POP003444
Report Ref: GS-8111630
Grid Ref: 448768, 297151

Map Name: County Series
Map date: 1886
Scale: 1:10,560
Printed at: 1:10,560



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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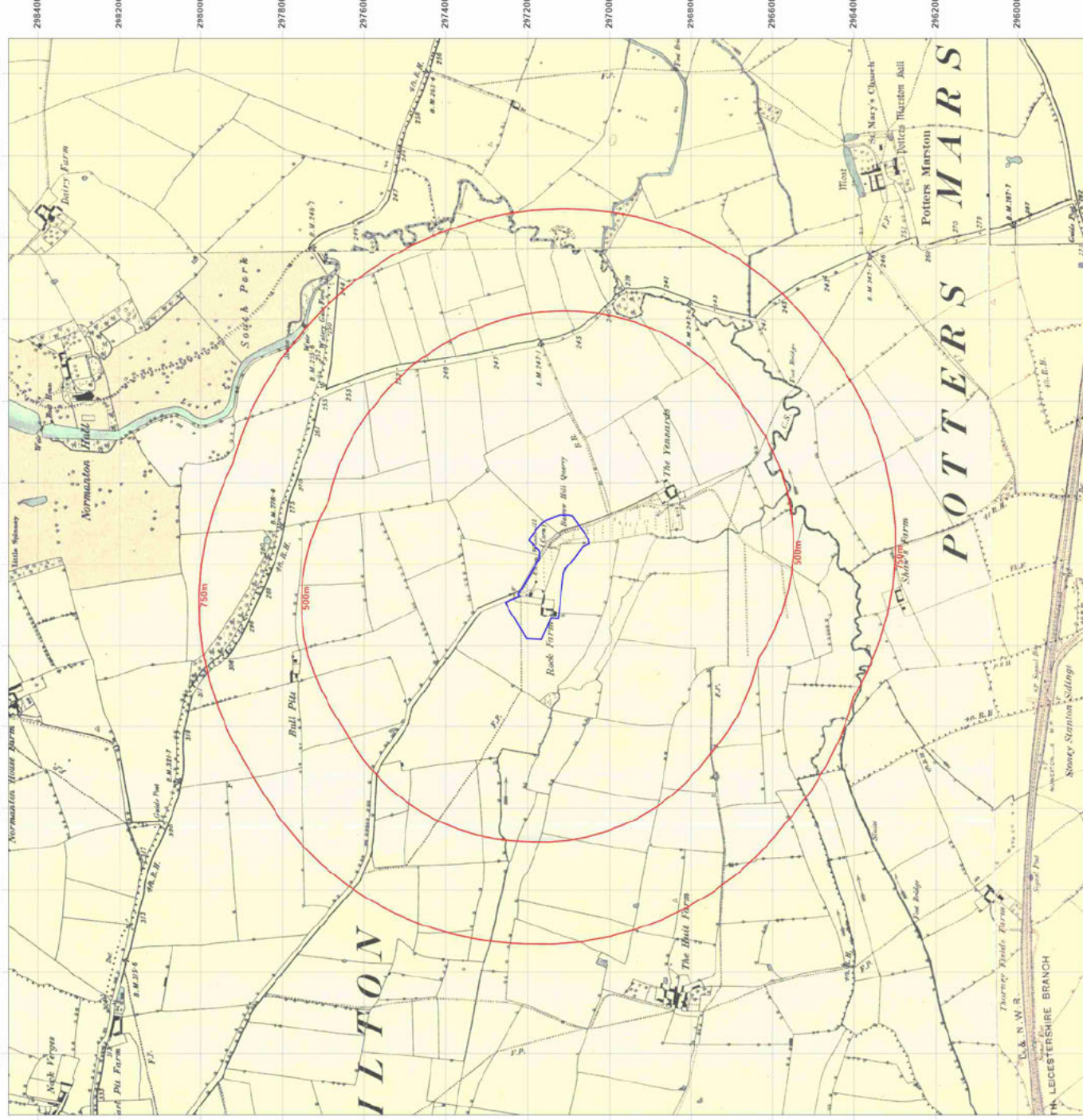


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Groundsure ns ghts
T 08444 159000
E nfo@groundsure.com
W www.groundsure.com

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Product on date 10 August 2021

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



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Site Details:

STREET RECORD, MILL LANE,
EARL SHILTON, LE97TR

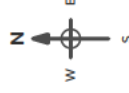
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Grid Ref: 448768, 297151

Map Name: County Series

Map date: 1904

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1904
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Edition N/A
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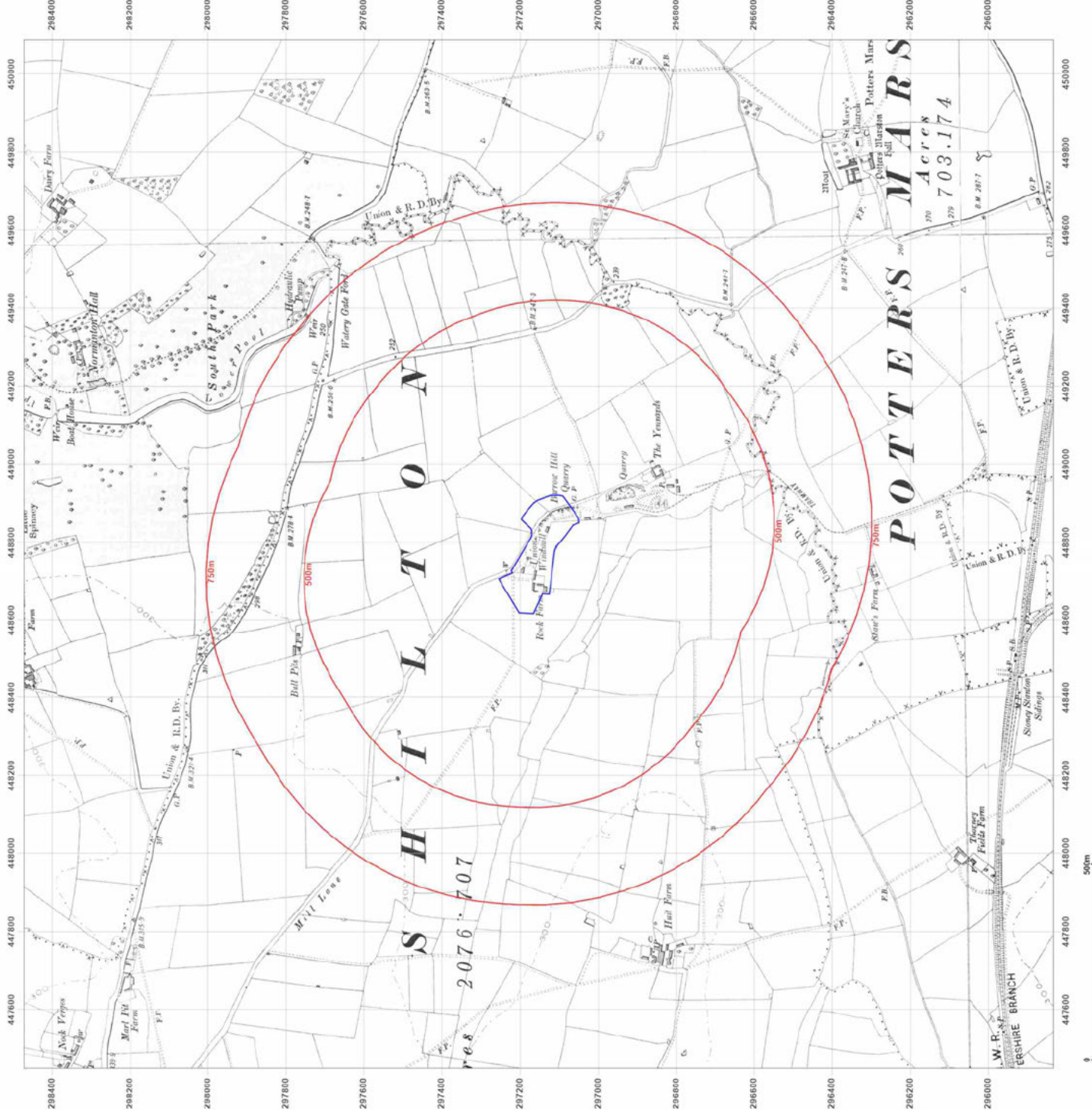


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E nfo@groundsure.com
W www.groundsure.com

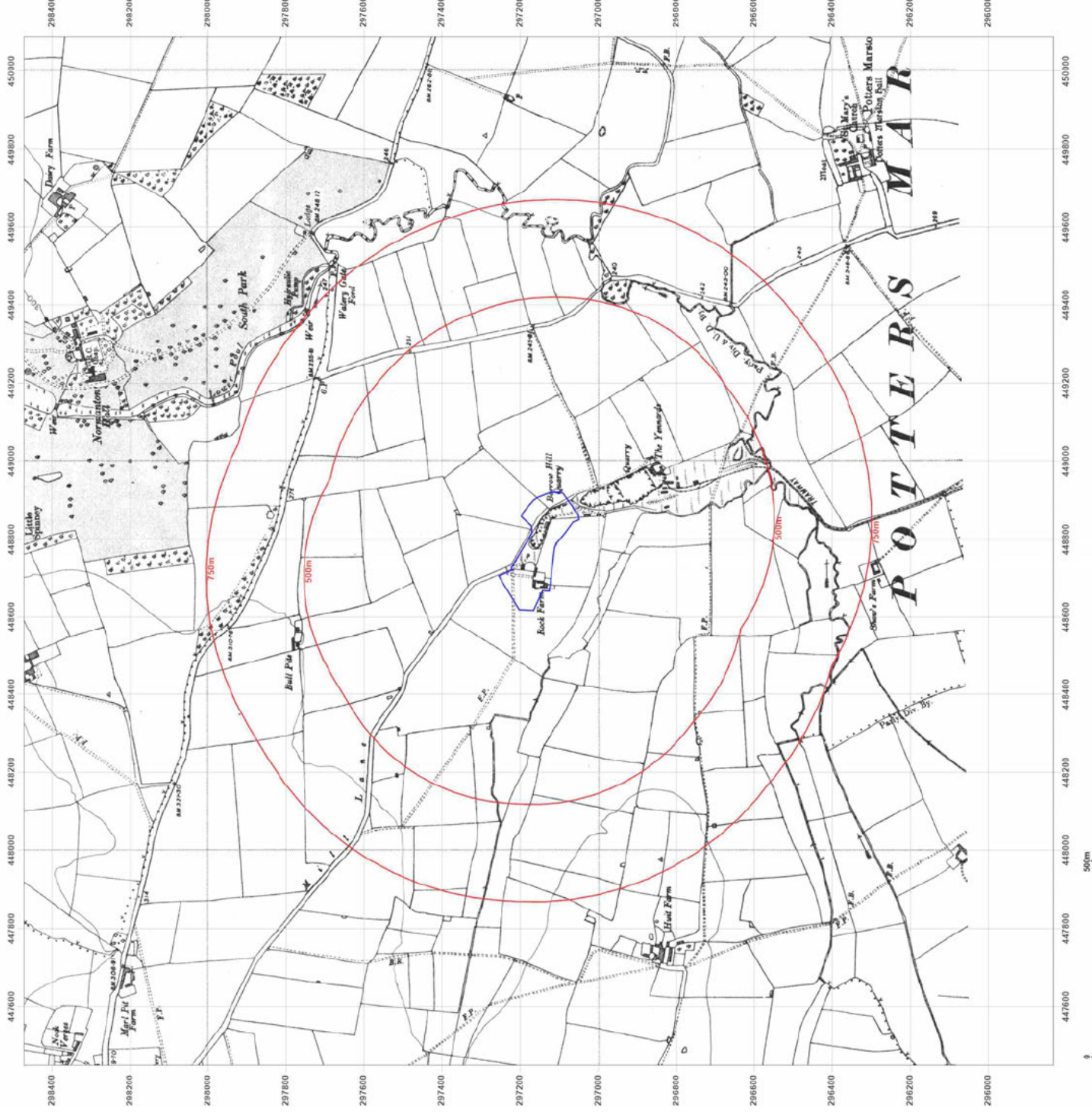
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Product on date 10 August 2021

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



Full-text legends available at
www.groundsurre.com/sites/default/files/groundsurre_legend.pdf



Site Details:

STREET RECORD, MILL LANE,
EARL SHILTON, LE97TR

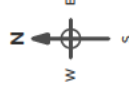
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Report Ref: GS-811630
Grid Ref: 448768, 297151

Map Name: Provisional

Map date: 1950

Scale: 1:10,560

Printed at: 1:10,560



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

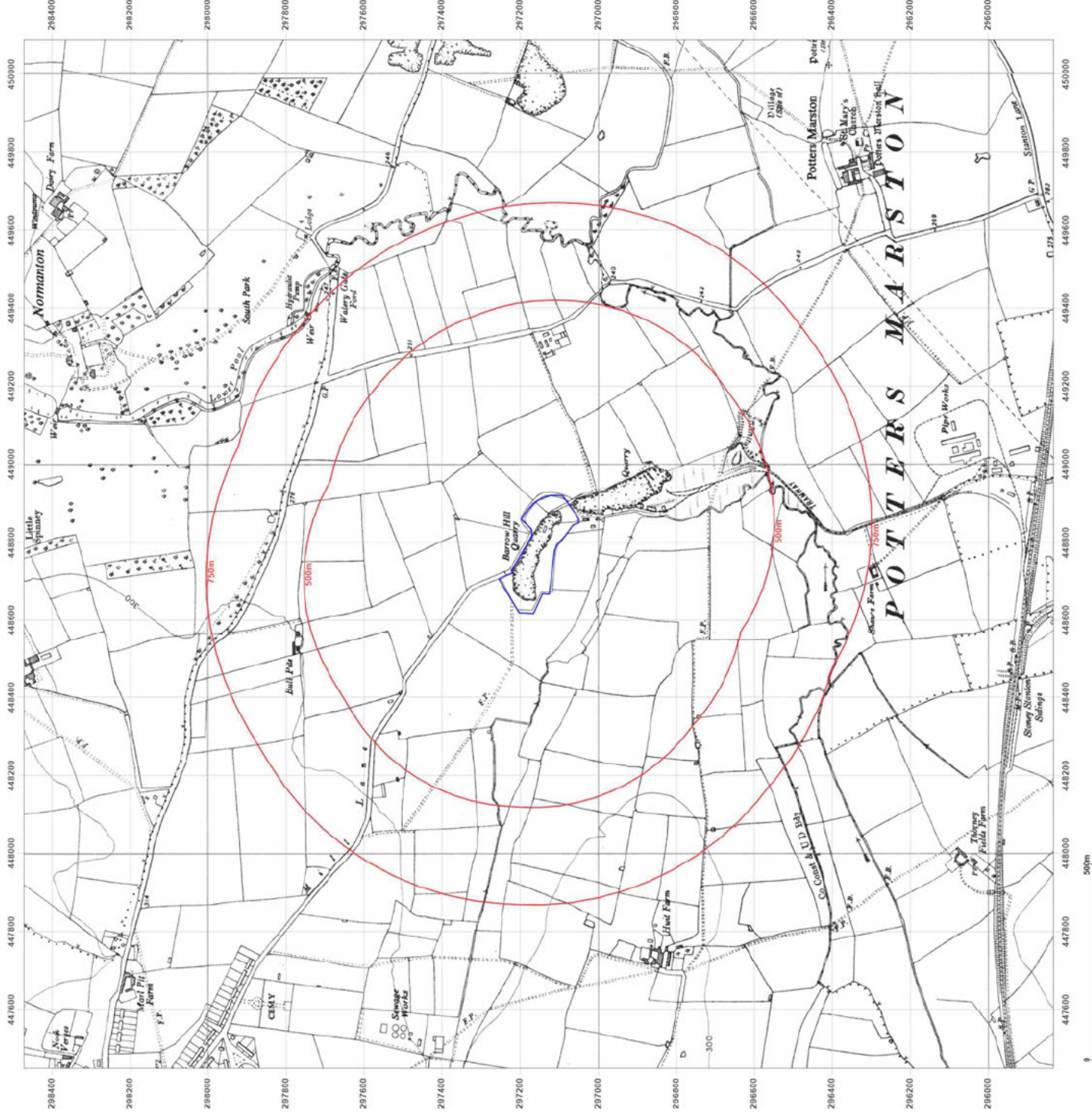


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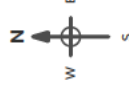
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Report Ref: GS-8111630
Grid Ref: 448768, 297151

Map Name: Provisional

Map date: 1967-1968

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

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

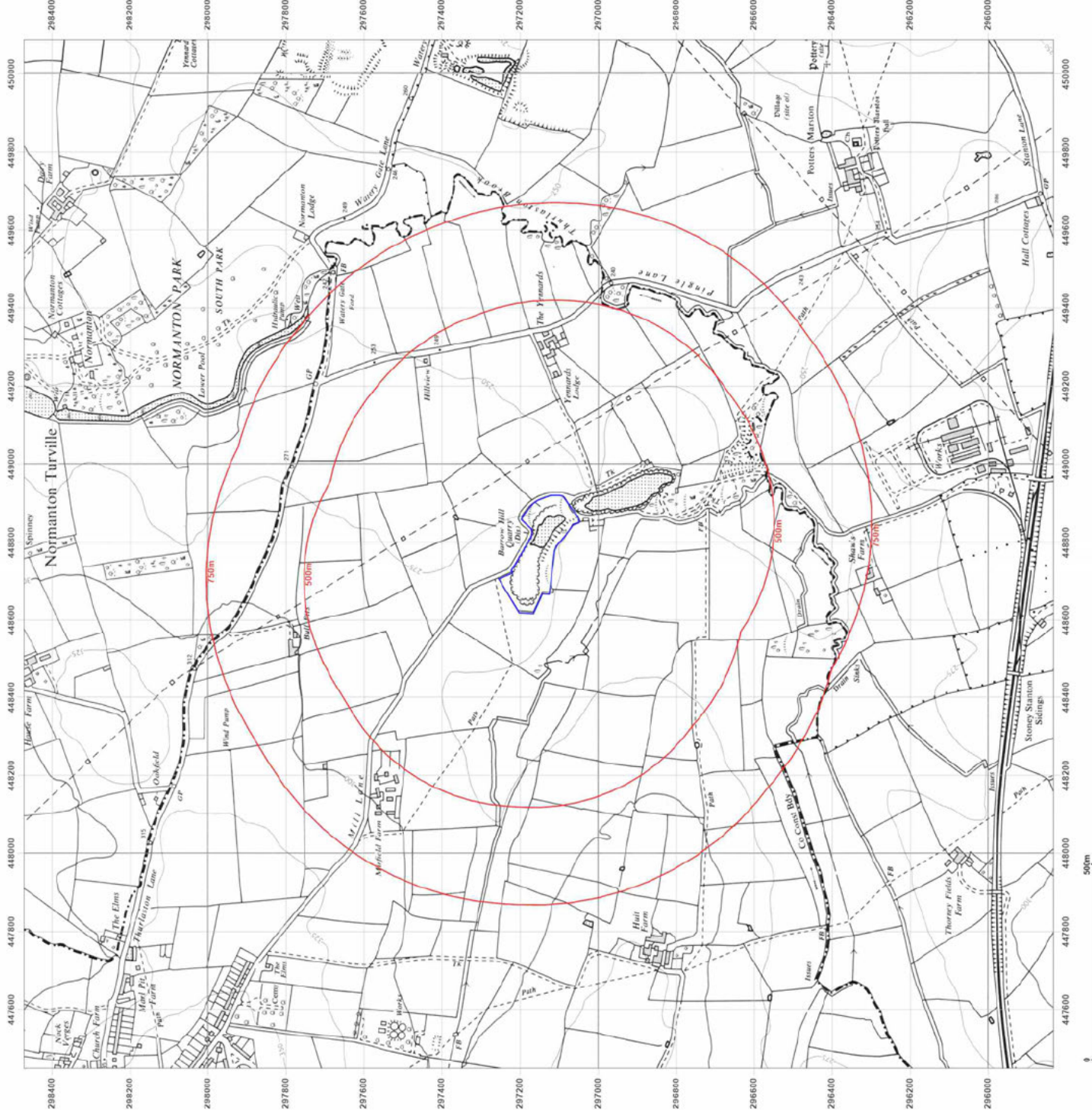


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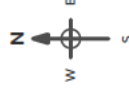


Site Details:

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EARL SHILTON, LE97TR

Client Ref: POP003444
Report Ref: GS-8111630
Grid Ref: 448768, 297151

Map Name: National Grid
Map date: 1980-1981
Scale: 1:10,000
Printed at: 1:10,000



Surveyed 1972
Revised 1980
Edition N/A
Copyright 1980
Levelled 1965

Surveyed 1973
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

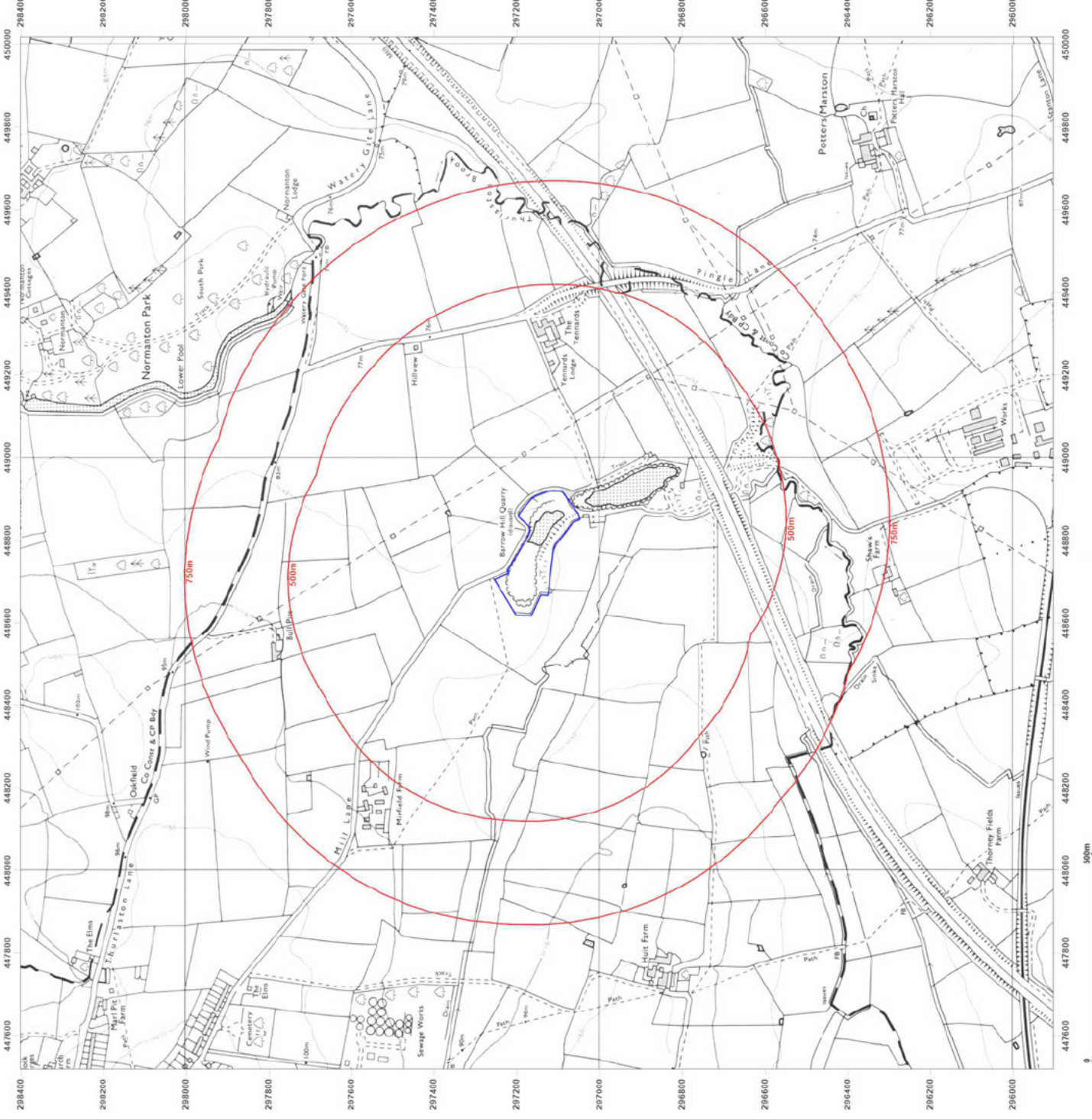


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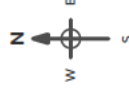


Site Details:

STREET RECORD, MILL LANE,
EARL SHILTON, LE97TR

Client Ref: POP003444
Report Ref: GS-811630
Grid Ref: 448768, 297151

Map Name: National Grid
Map date: 2001
Scale: 1:10,000
Printed at: 1:10,000

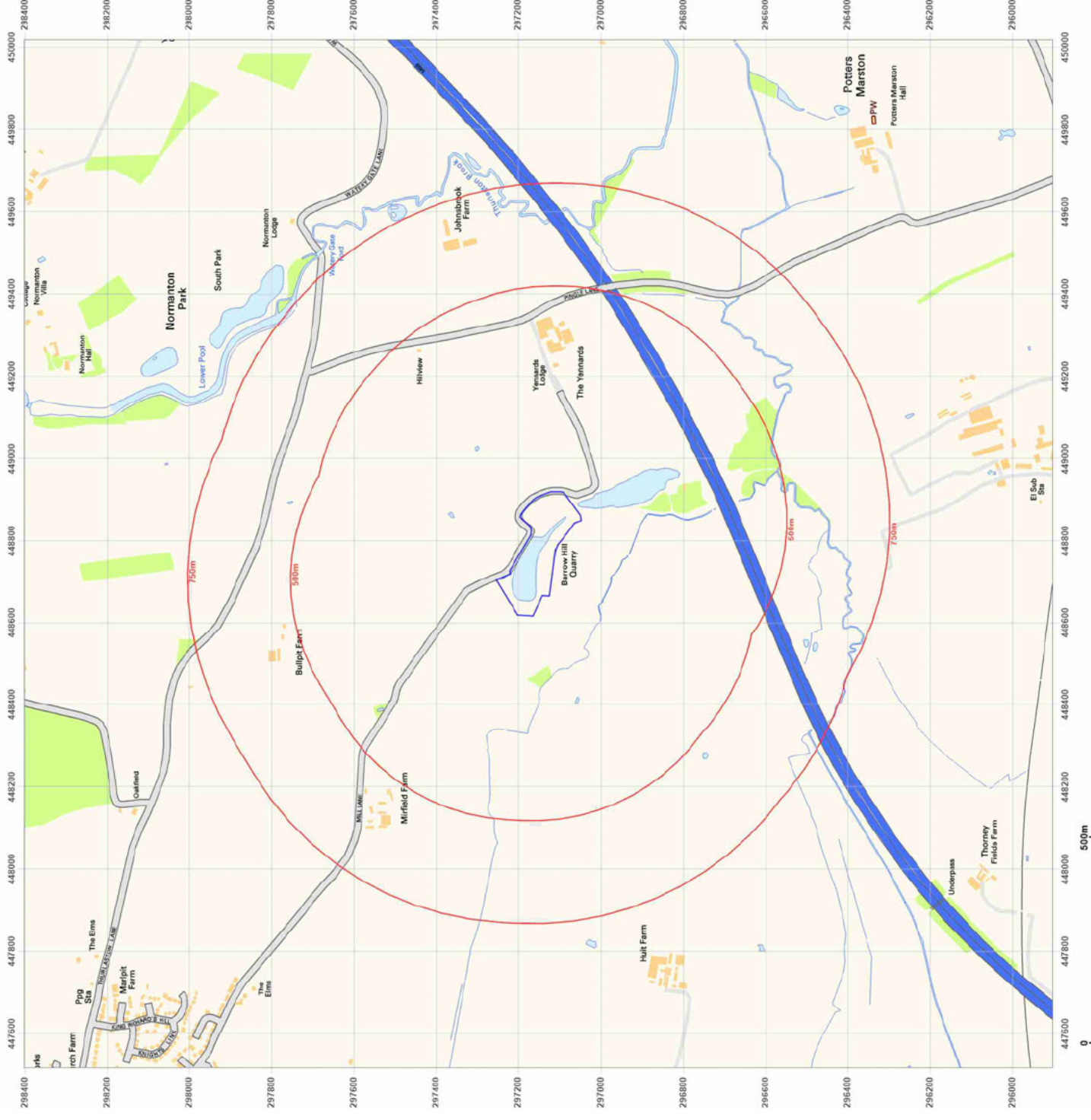


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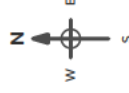
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Report Ref: GS-811630
Grid Ref: 448768, 297151

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

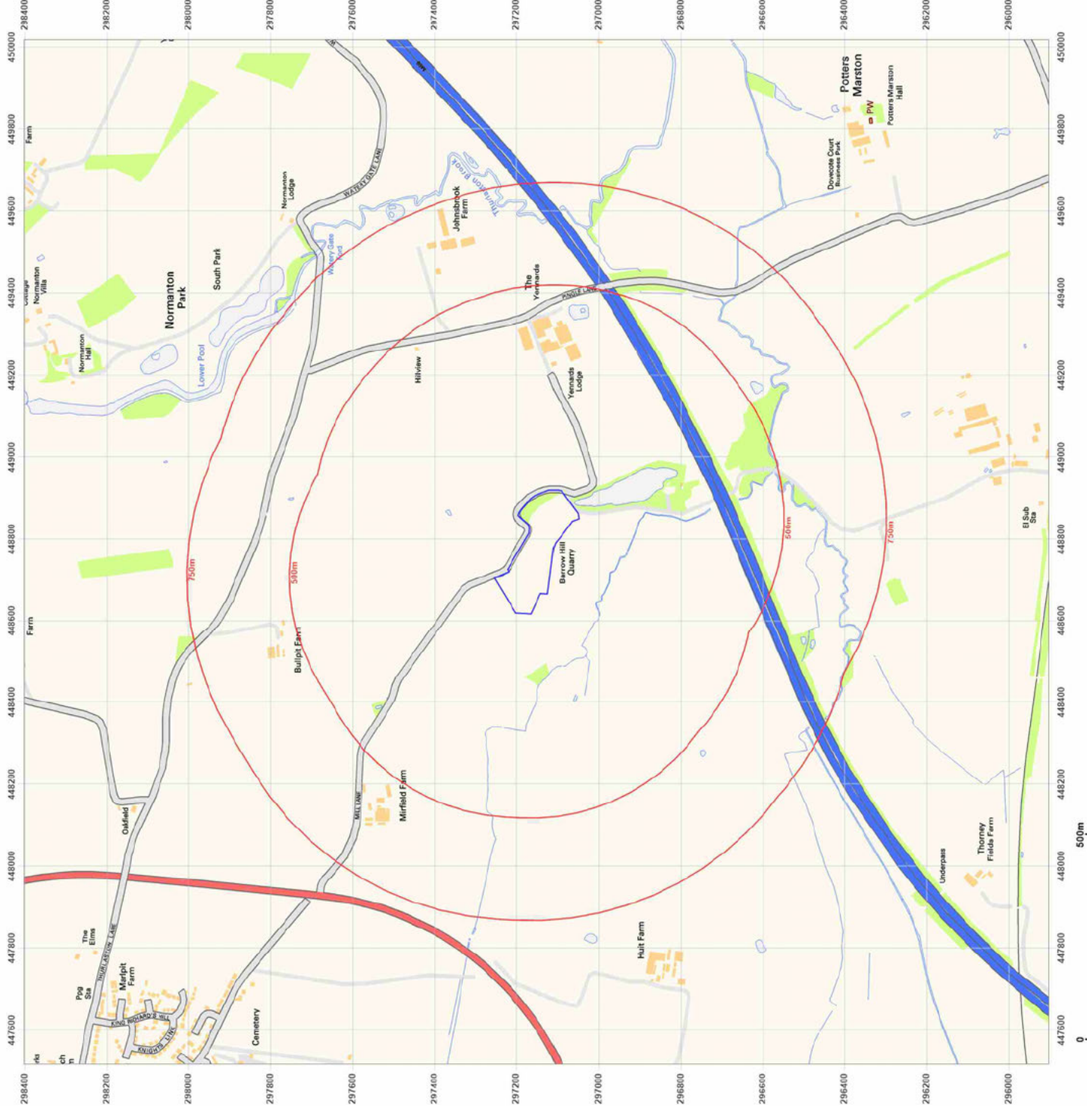


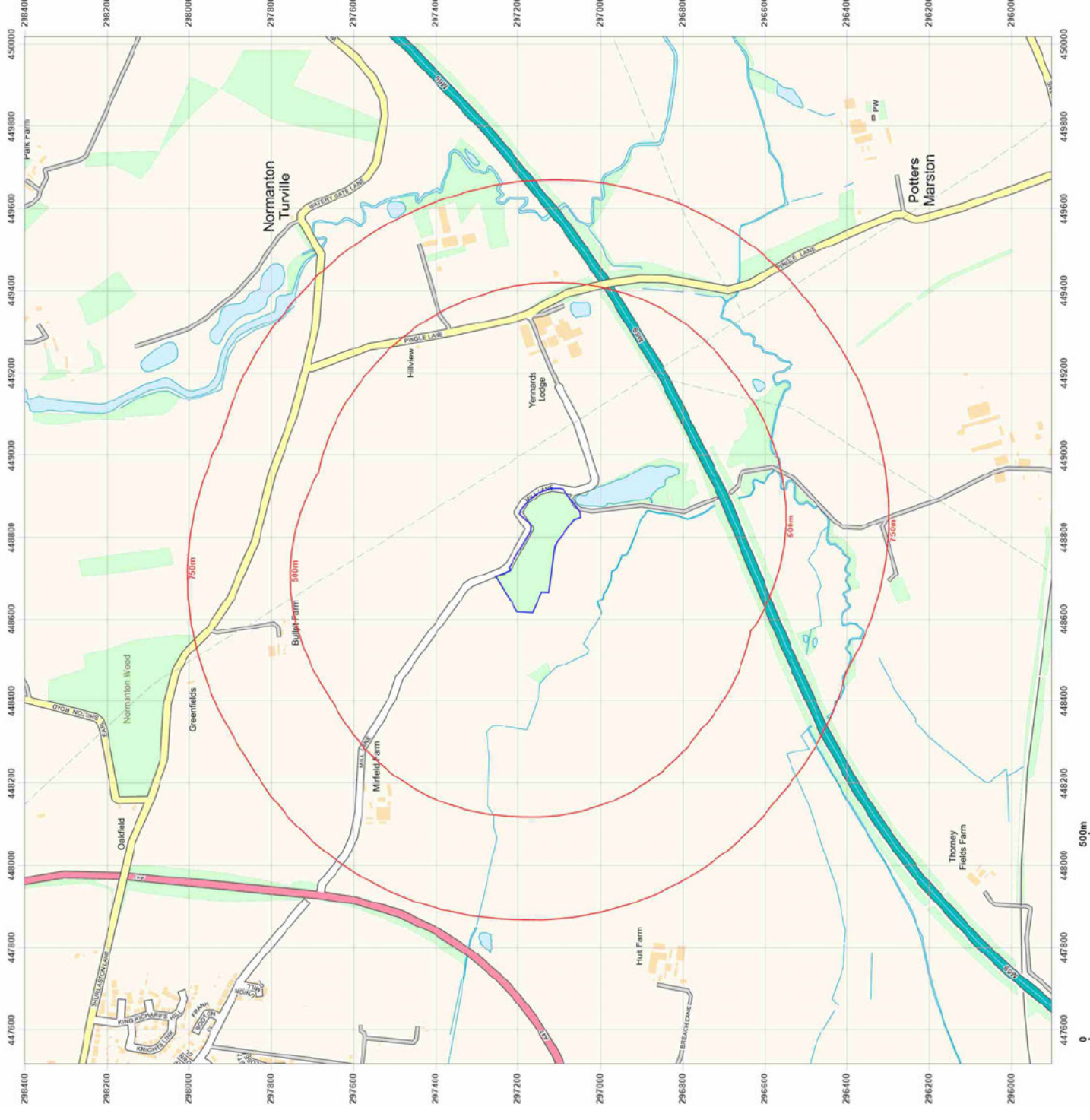
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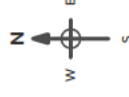
Client Ref: POP003444
Report Ref: GS-8111630_2500
Grid Ref: 448767, 297150

Map Name: County Series

Map date: 1888

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1888
Revised 1888
Edition N/A
Copyright N/A
Levelled N/A

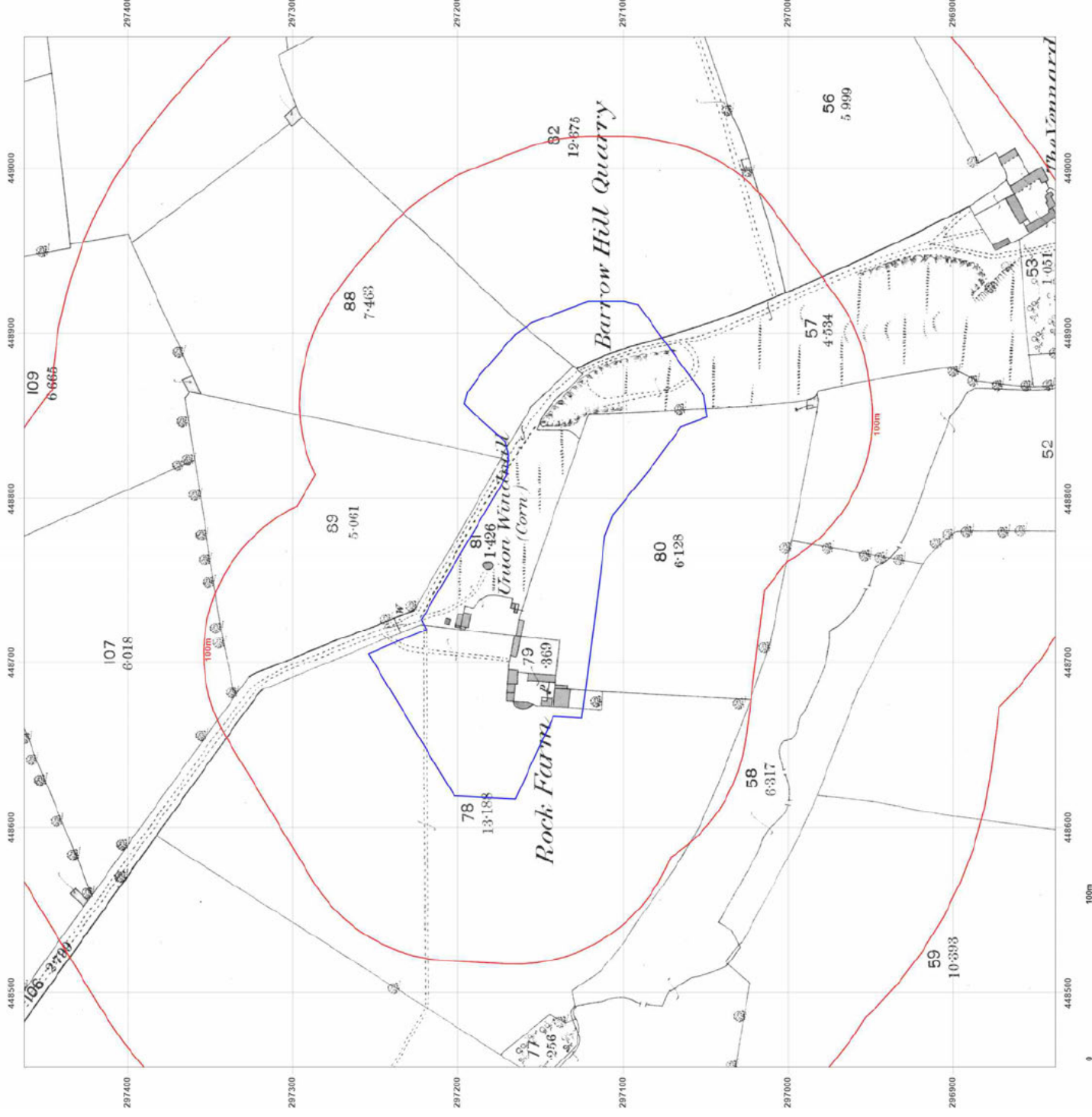


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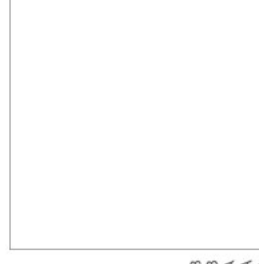
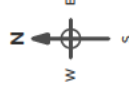
Client Ref: POP003444
Report Ref: GS-8111630_2500
Grid Ref: 448767, 297150

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

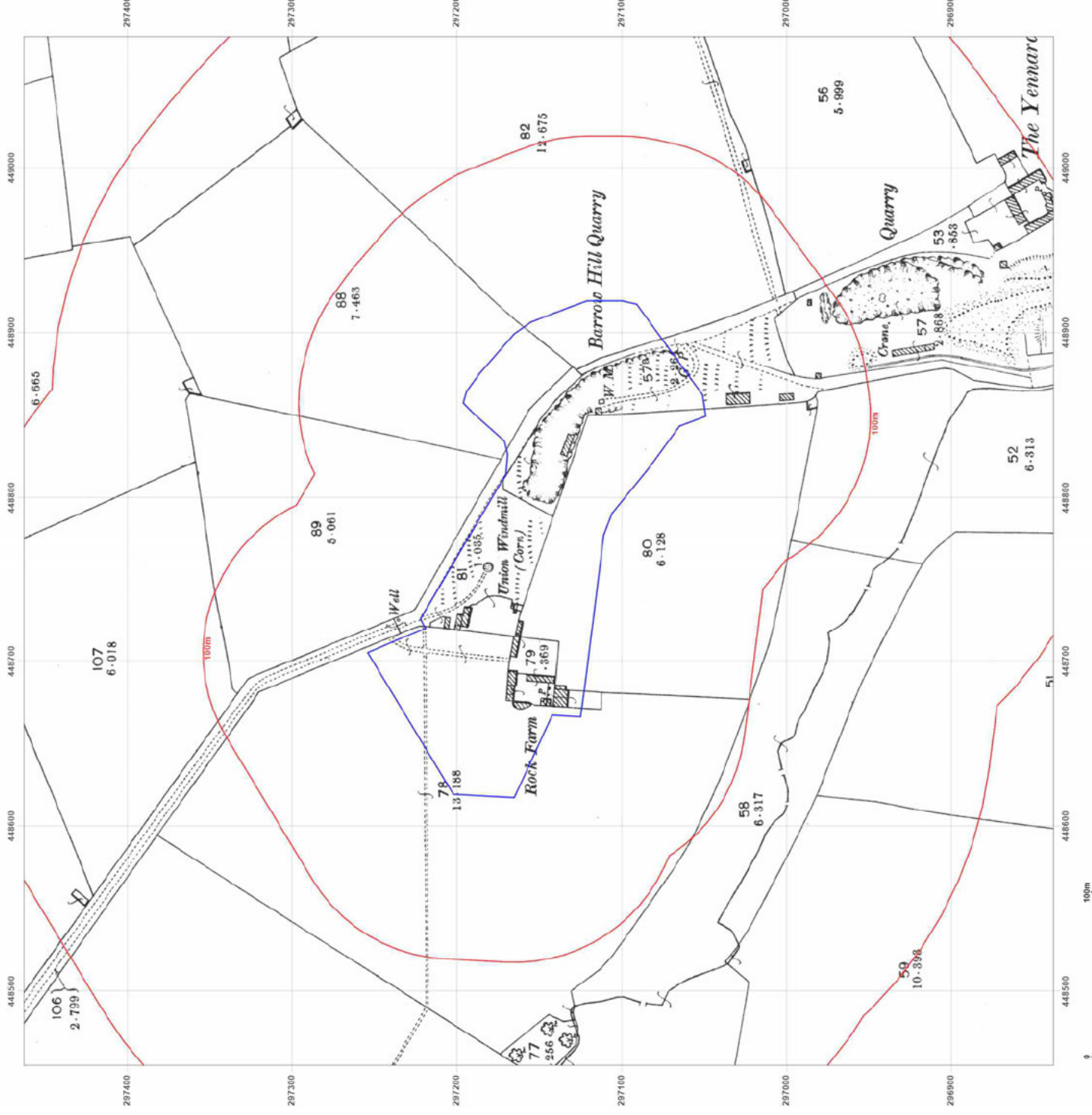


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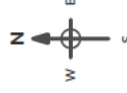
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Report Ref: GS-8111630_2500
Grid Ref: 448767, 297150

Map Name: County Series

Map date: 1916

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1916
Revised 1916
Edition N/A
Copyright N/A
Levelled N/A



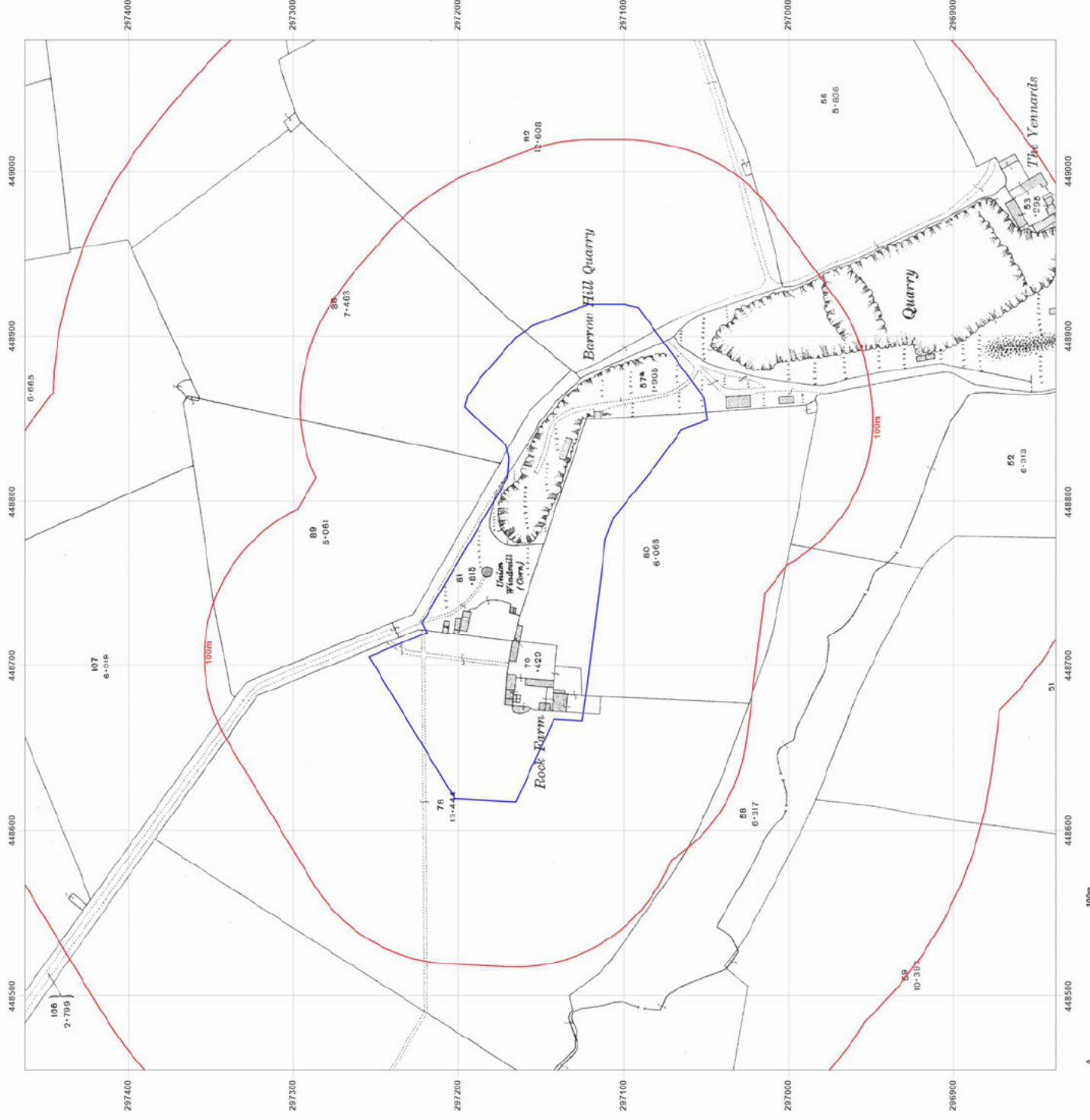
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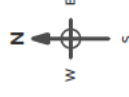
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Report Ref: GS-8111630_2500
Grid Ref: 448767, 297150

Map Name: National Grid

Map date: 1963

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1963
Revised 1963
Edition N/A
Copyright 1964
Levelled 1945

Surveyed 1963
Revised 1963
Edition N/A
Copyright 1964
Levelled 1945

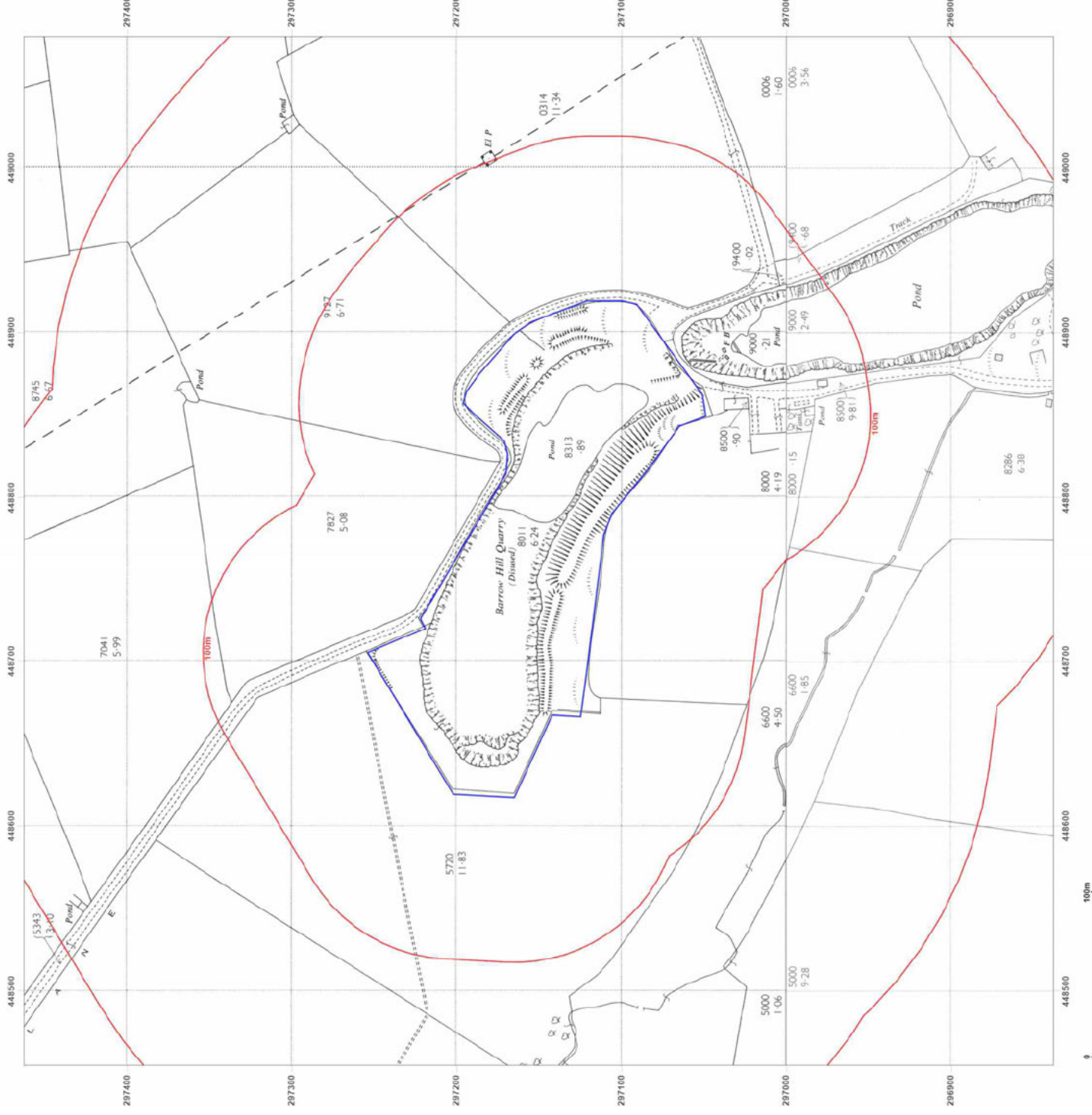


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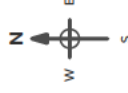
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Report Ref: GS-8111630_2500
Grid Ref: 448767, 297150

Map Name: National Grid

Map date: 1973-1977

Scale: 1:2,500

Printed at: 1:2,500



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

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Revised N/A
Edition N/A
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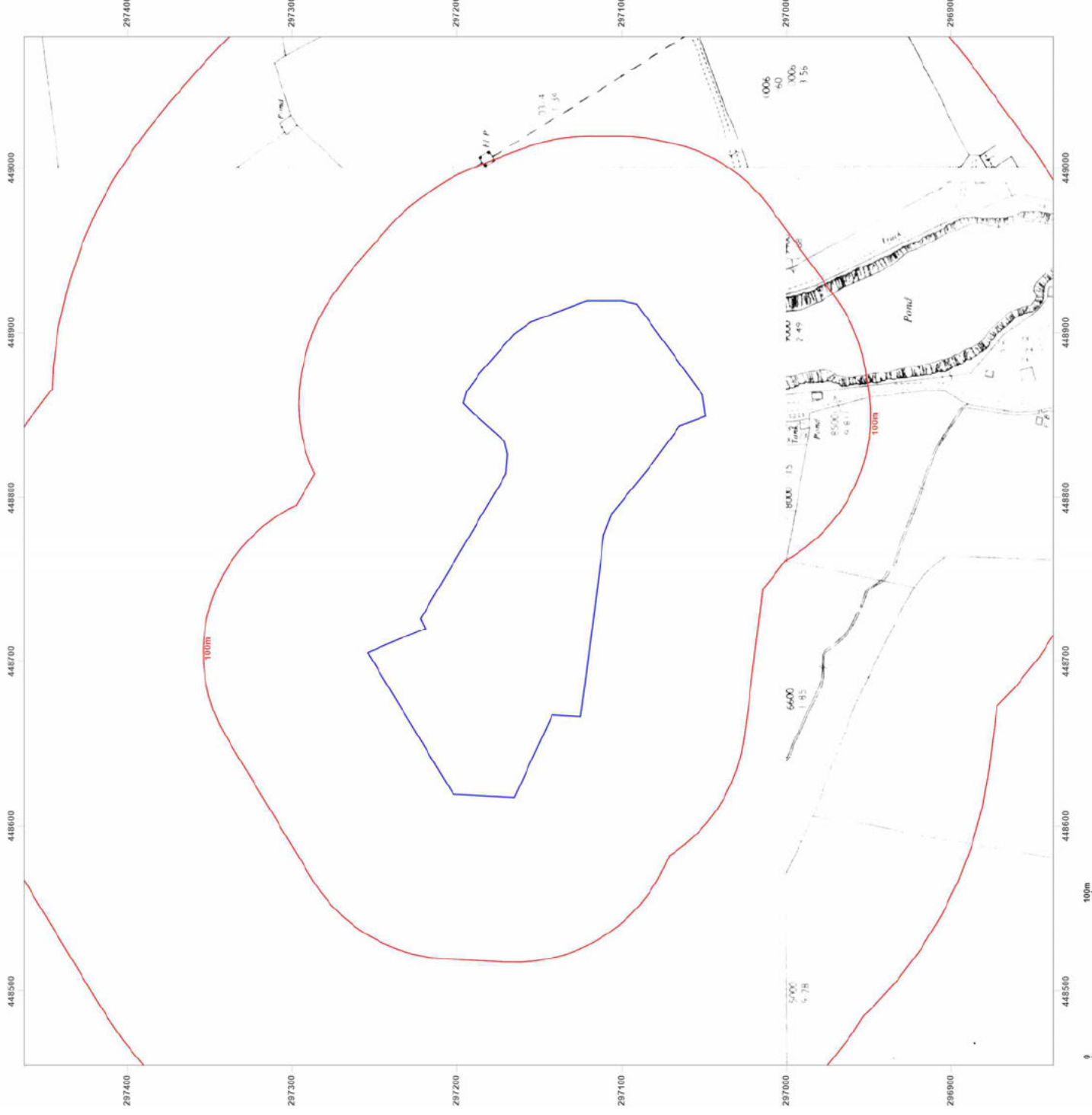


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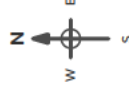
Client Ref: POP003444
Report Ref: GS-8111630_2500
Grid Ref: 448767, 297150

Map Name: National Grid

Map date: 1983

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1983
Revised 1983
Edition N/A
Copyright 1985
Levelled 1964

Surveyed 1983
Revised 1983
Edition N/A
Copyright 1985
Levelled 1964

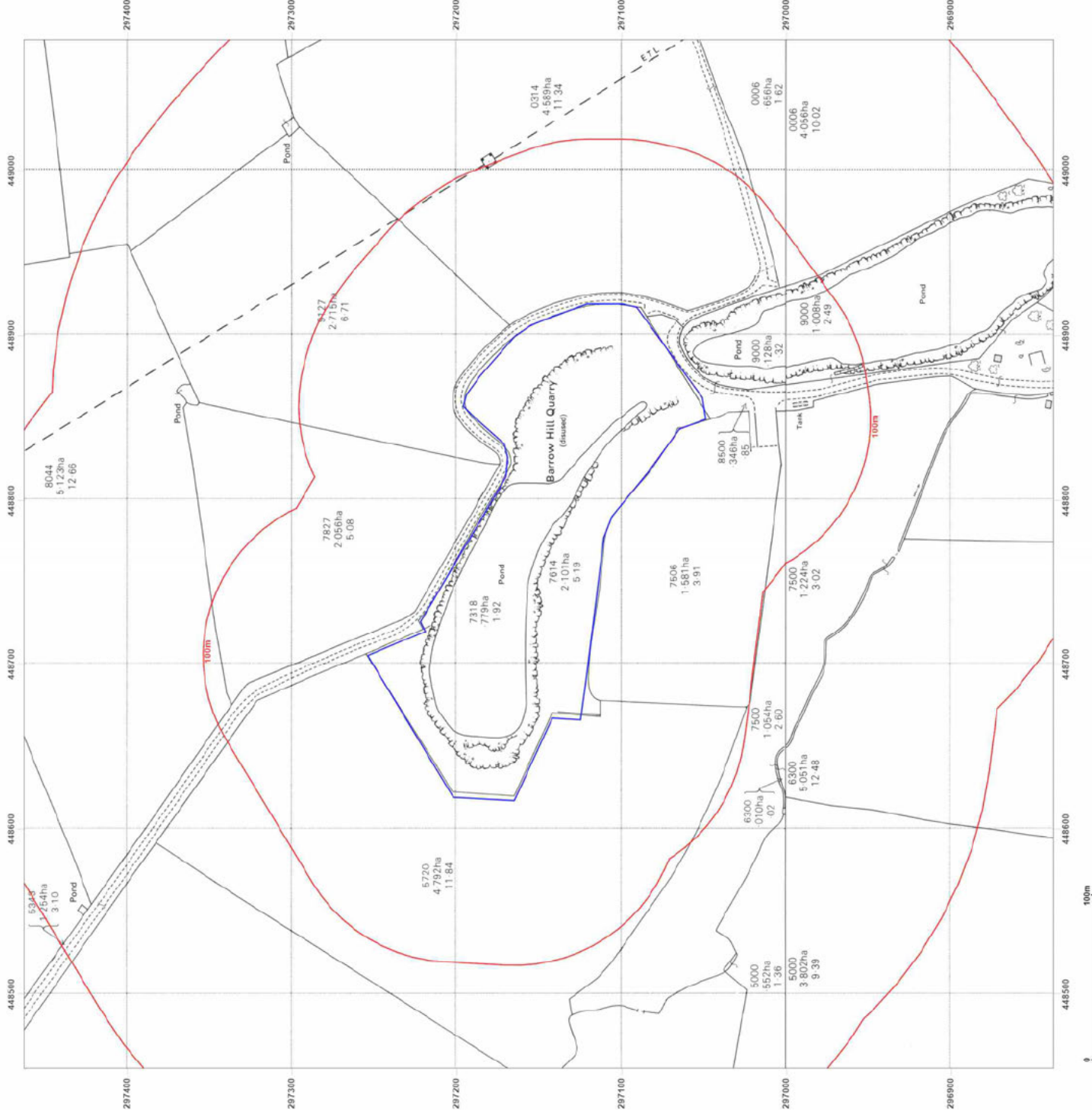


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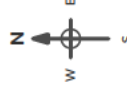
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Report Ref: GS-8111630_2500
Grid Ref: 448767, 297150

Map Name: National Grid

Map date: 1985

Scale: 1:2,500

Printed at: 1:2,500



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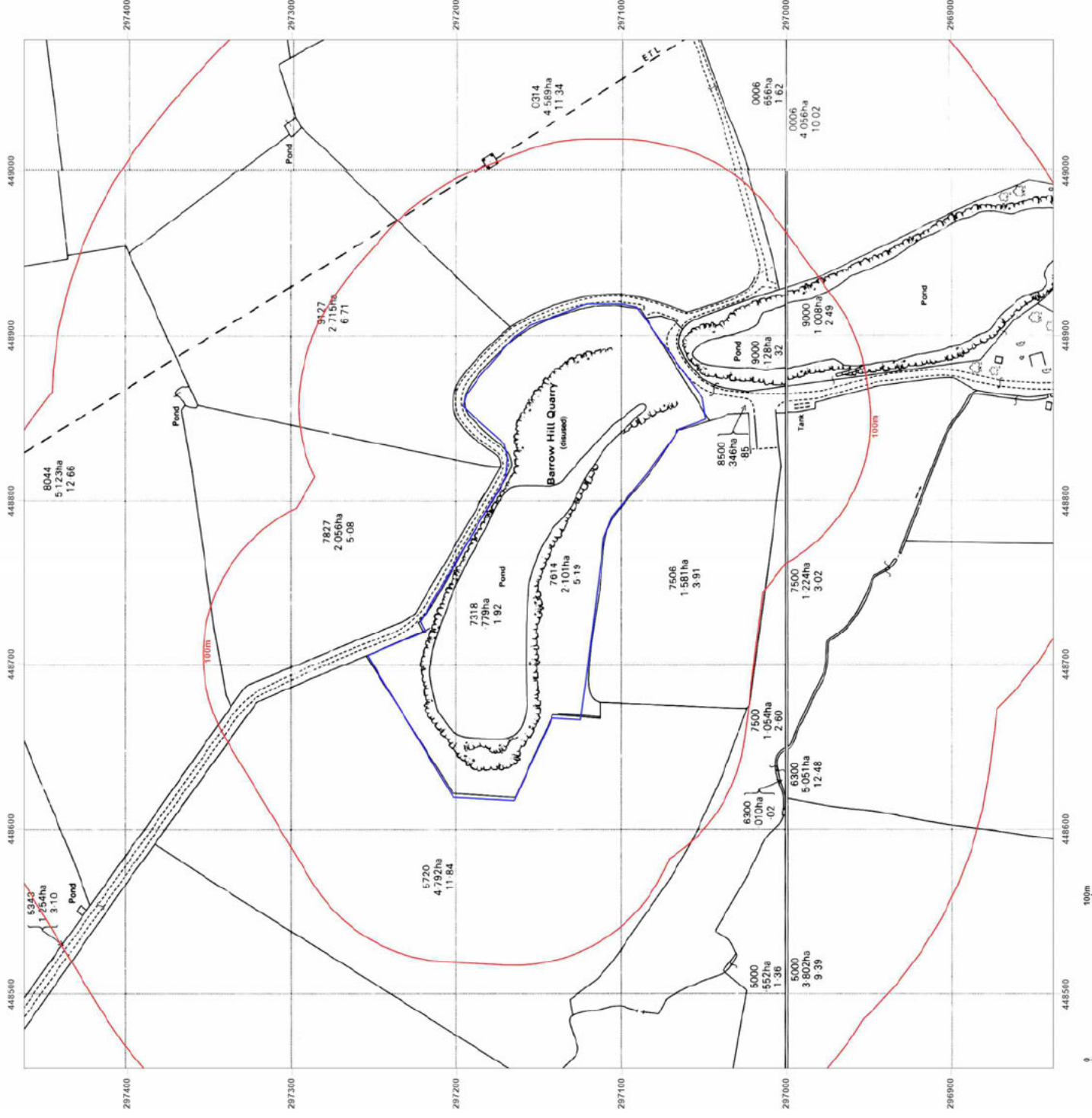


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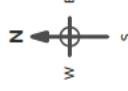
Client Ref: POP003444
Report Ref: GS-8111630_2500
Grid Ref: 448767, 297150

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



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



Surveyed 1994
Revised 1994
Edition N/A
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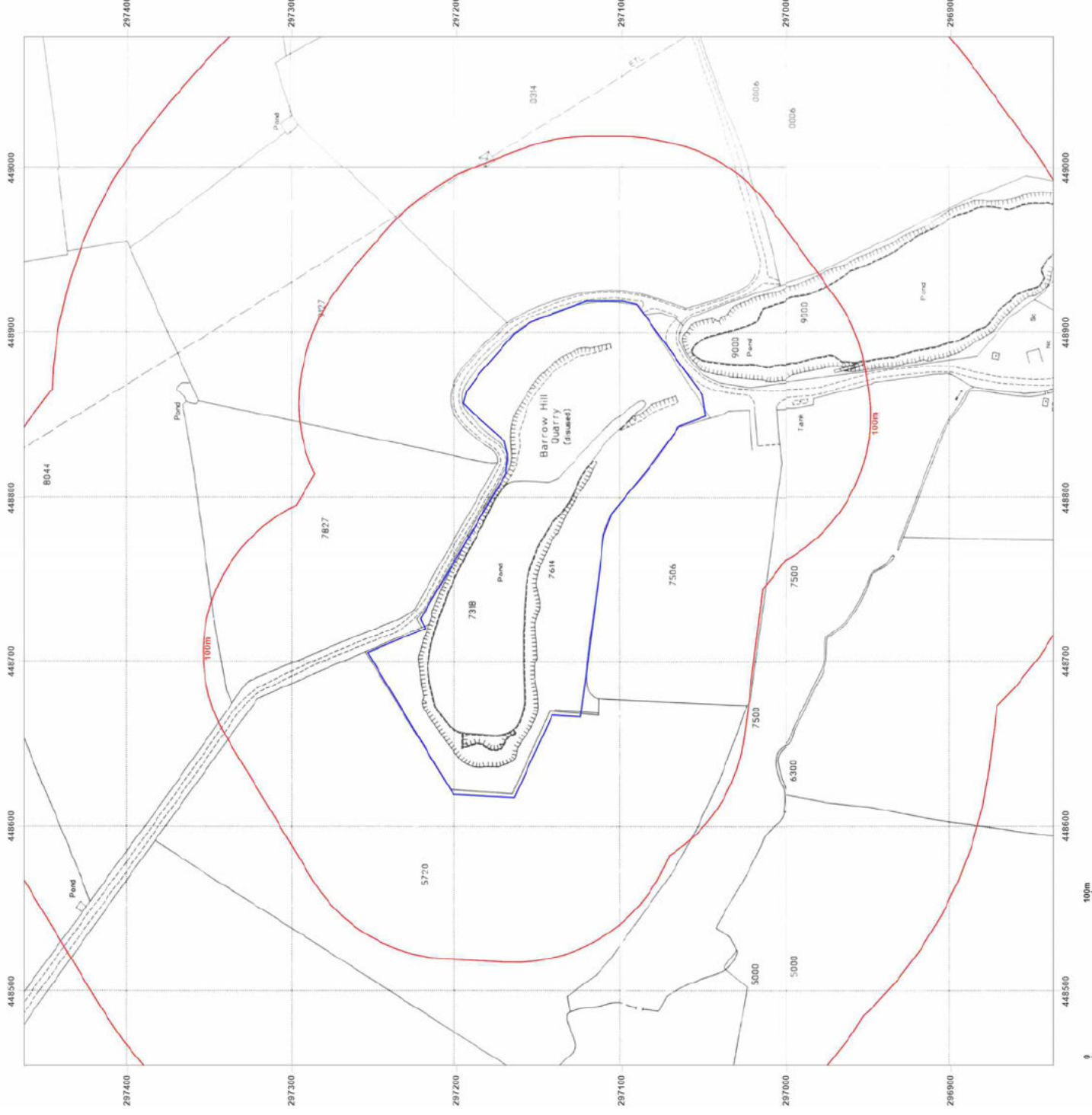


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Site Details:

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Client Ref: POP003444
Report Ref: GS-8111630_Landline_1_1
Grid Ref: 448618, 297151

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



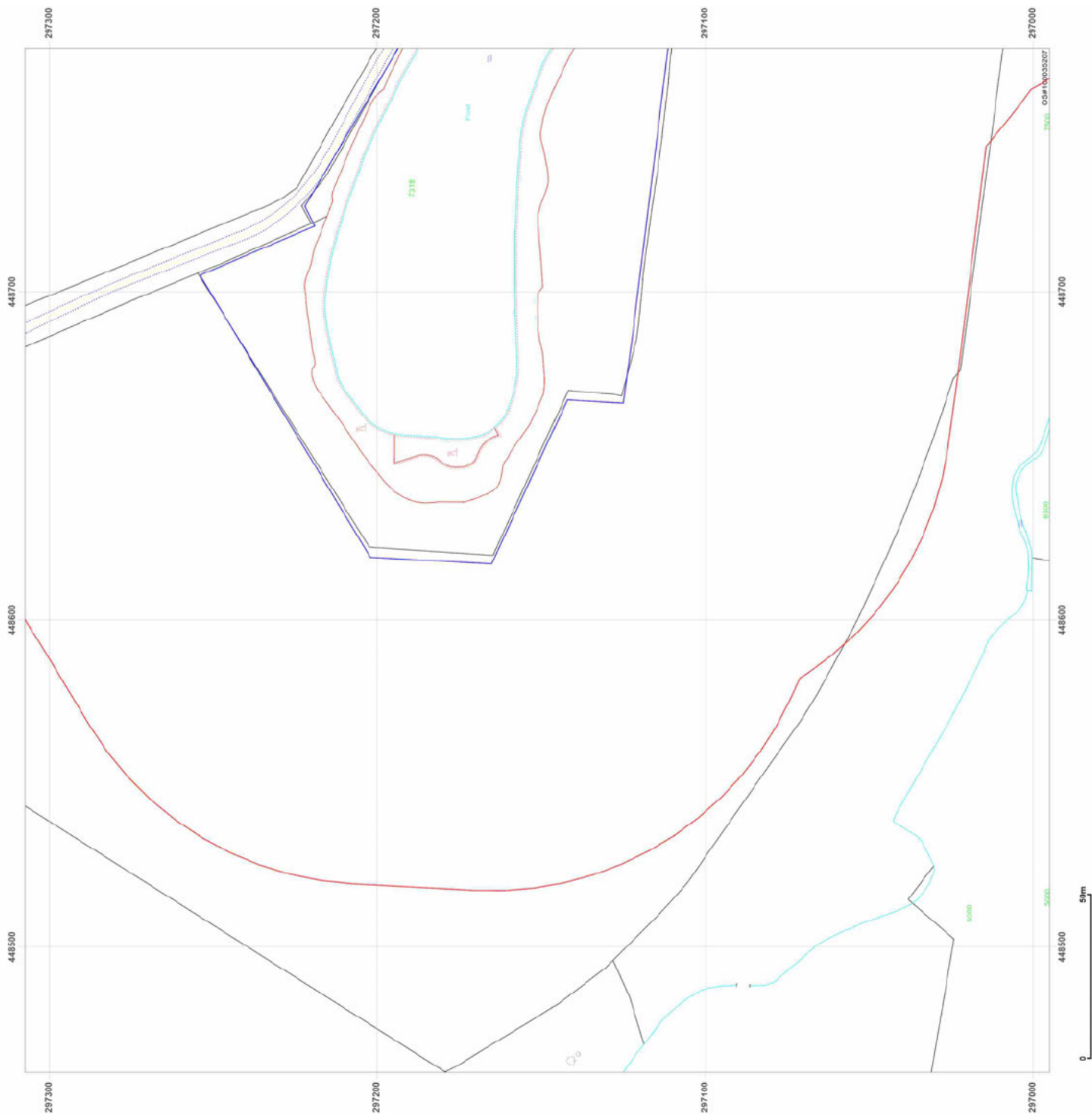
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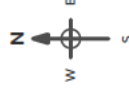
Site Details:

STREET RECORD, MILL LANE,
EARL SHILTON, LE9 7TR

Client Ref: POP003444

Report Ref: GS-8111630_Landline_2_1
Grid Ref: 448918, 297151

Map Name: LandLine



Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

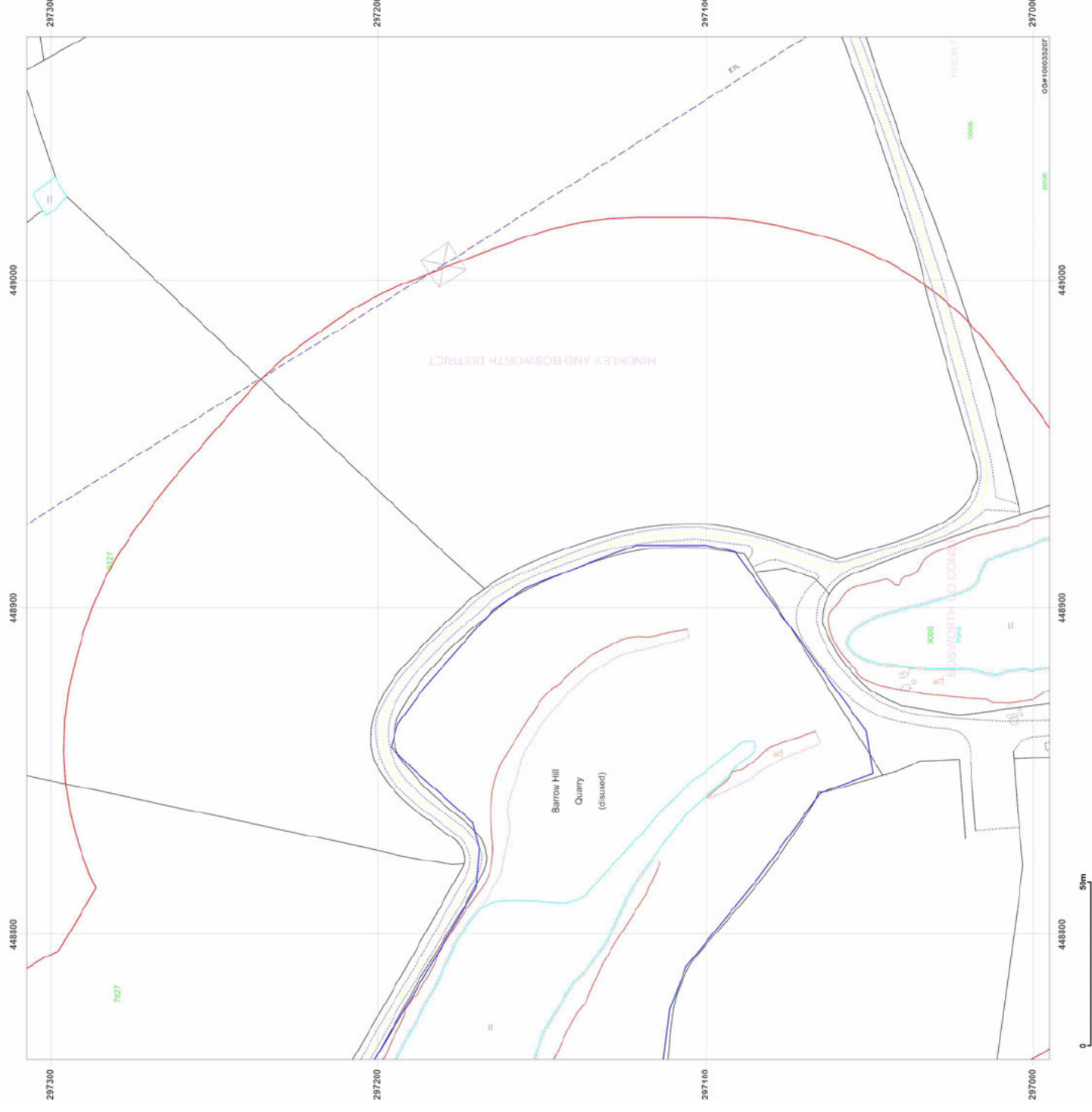


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Landline Scale Grid Index

APPENDIX D

STREET RECORD, MILL LANE, EARL SHILTON, LE9 7TR

Order Details

Date: 10/08/2021
Your ref: POP003444
Our Ref: GS-8111631
Client: Mewies Engineering Consultants Ltd

Site Details

Location: 448809 297112
Area: 2.86 ha
Authority: [Hinckley and Bosworth Borough Council](#)



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Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.13

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info@groundsure.com

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Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	Historical industrial land uses	8	4	8	5	-
16	1.2	Historical tanks	0	0	2	1	-
16	1.3	Historical energy features	0	0	0	0	-
16	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	0	-
17	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
18	2.1	Historical industrial land uses	10	5	12	11	-
20	2.2	Historical tanks	0	0	3	1	-
20	2.3	Historical energy features	0	0	0	0	-
21	2.4	Historical petrol stations	0	0	0	0	-
21	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
22	3.1	Active or recent landfill	1	0	0	0	-
23	3.2	Historical landfill (BGS records)	0	0	0	0	-
23	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
23	3.4	Historical landfill (EA/NRW records)	1	0	0	0	-
23	3.5	Historical waste sites	1	0	0	0	-
24	3.6	Licensed waste sites	3	6	0	0	-
27	3.7	Waste exemptions	0	0	3	3	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
28	4.1	Recent industrial land uses	1	0	2	-	-
29	4.2	Current or recent petrol stations	0	0	0	0	-
29	4.3	Electricity cables	0	0	0	0	-
29	4.4	Gas pipelines	0	0	1	0	-
29	4.5	Sites determined as Contaminated Land	0	0	0	0	-



30	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
30	4.7	Regulated explosive sites	0	0	0	0	-
30	4.8	Hazardous substance storage/usage	0	0	0	0	-
30	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
30	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
31	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
31	4.12	Radioactive Substance Authorisations	0	0	0	0	-
31	4.13	Licensed Discharges to controlled waters	0	0	0	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	-
32	4.16	List 1 Dangerous Substances	0	0	0	0	-
32	4.17	List 2 Dangerous Substances	0	0	0	0	-
32	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	0	4	-
33	4.19	Pollution inventory substances	0	0	0	0	-
33	4.20	Pollution inventory waste transfers	0	0	0	0	-
33	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
34	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
36	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
38	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
40	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
40	5.5	Groundwater vulnerability- local information	None (within 0m)				
41	5.6	<u>Groundwater abstractions</u>	1	0	1	0	2
42	5.7	Surface water abstractions	0	0	0	0	0
43	5.8	Potable abstractions	0	0	0	0	0
43	5.9	Source Protection Zones	0	0	0	0	-
43	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
44	6.1	<u>Water Network (OS MasterMap)</u>	0	0	5	-	-



<u>45</u>	<u>6.2</u>	<u>Surface water features</u>	0	1	3	-	-
<u>45</u>	<u>6.3</u>	<u>WFD Surface water body catchments</u>	1	-	-	-	-
<u>46</u>	<u>6.4</u>	<u>WFD Surface water bodies</u>	0	0	1	-	-
<u>46</u>	<u>6.5</u>	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
47	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
47	7.2	Historical Flood Events	0	0	0	-	-
47	7.3	Flood Defences	0	0	0	-	-
47	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
48	7.5	Flood Storage Areas	0	0	0	-	-
49	7.6	Flood Zone 2	None (within 50m)				
49	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
<u>50</u>	<u>8.1</u>	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
<u>52</u>	<u>9.1</u>	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
53	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
53	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
53	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
53	10.4	Special Protection Areas (SPA)	0	0	0	0	0
54	10.5	National Nature Reserves (NNR)	0	0	0	0	0
54	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
54	10.7	Designated Ancient Woodland	0	0	0	0	0
54	10.8	Biosphere Reserves	0	0	0	0	0
55	10.9	Forest Parks	0	0	0	0	0
55	10.10	Marine Conservation Zones	0	0	0	0	0
55	10.11	Green Belt	0	0	0	0	0
55	10.12	Proposed Ramsar sites	0	0	0	0	0



55	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
56	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
56	10.15	Nitrate Sensitive Areas	0	0	0	0	0
56	10.16	<u>Nitrate Vulnerable Zones</u>	1	0	0	0	1
57	10.17	<u>SSSI Impact Risk Zones</u>	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	<u>Agricultural Land Classification</u>	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	-	-
62	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
63	13.1	Priority Habitat Inventory	0	0	0	-	-
63	13.2	Habitat Networks	0	0	0	-	-
64	13.3	<u>Open Mosaic Habitat</u>	1	0	1	-	-
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	<u>10k Availability</u>	Identified (within 500m)				
66	14.2	<u>Artificial and made ground (10k)</u>	2	0	1	0	-
67	14.3	<u>Superficial geology (10k)</u>	2	1	1	1	-



68	14.4	Landslip (10k)	0	0	0	0	-
69	14.5	<u>Bedrock geology (10k)</u>	5	0	1	0	-
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	<u>50k Availability</u>	Identified (within 500m)				
72	15.2	<u>Artificial and made ground (50k)</u>	1	0	1	1	-
73	15.3	Artificial ground permeability (50k)	0	0	-	-	-
74	15.4	<u>Superficial geology (50k)</u>	2	1	1	4	-
75	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
75	15.6	Landslip (50k)	0	0	0	0	-
75	15.7	Landslip permeability (50k)	None (within 50m)				
76	15.8	<u>Bedrock geology (50k)</u>	5	0	1	4	-
77	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
77	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
78	16.1	<u>BGS Boreholes</u>	1	0	0	-	-
Page	Section	Natural ground subsidence					
79	17.1	<u>Shrink swell clays</u>	Low (within 50m)				
81	17.2	<u>Running sands</u>	Very low (within 50m)				
83	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
84	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
85	17.5	<u>Landslides</u>	Low (within 50m)				
87	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
88	18.1	Natural cavities	0	0	0	0	-
89	18.2	<u>BritPits</u>	1	0	1	0	-
89	18.3	<u>Surface ground workings</u>	9	6	4	-	-
90	18.4	Underground workings	0	0	0	0	0
90	18.5	<u>Historical Mineral Planning Areas</u>	1	0	0	0	-



91	18.6	<u>Non-coal mining</u>	1	0	0	0	0
91	18.7	Mining cavities	0	0	0	0	0
91	18.8	JPB mining areas	None (within 0m)				
92	18.9	Coal mining	None (within 0m)				
92	18.10	Brine areas	None (within 0m)				
92	18.11	Gypsum areas	None (within 0m)				
92	18.12	Tin mining	None (within 0m)				
92	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
93	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
94	20.1	<u>BGS Estimated Background Soil Chemistry</u>	8	7	-	-	-
95	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
95	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
96	21.1	Underground railways (London)	0	0	0	-	-
96	21.2	Underground railways (Non-London)	0	0	0	-	-
97	21.3	Railway tunnels	0	0	0	-	-
97	21.4	<u>Historical railway and tunnel features</u>	0	0	6	-	-
97	21.5	Royal Mail tunnels	0	0	0	-	-
98	21.6	Historical railways	0	0	0	-	-
98	21.7	Railways	0	0	0	-	-
98	21.8	Crossrail 1	0	0	0	0	-
98	21.9	Crossrail 2	0	0	0	0	-
98	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 16/04/2020

Site Area: 2.86ha



Recent site history - 2017 aerial photograph



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Capture Date: 22/09/2017

Site Area: 2.86ha



Recent site history - 2011 aerial photograph



Capture Date: 09/10/2011

Site Area: 2.86ha



Recent site history - 2008 aerial photograph



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Capture Date: 20/09/2008

Site Area: 2.86ha



Recent site history - 1999 aerial photograph



Capture Date: 04/10/1999

Site Area: 2.86ha



OS MasterMap site plan



Site Area: 2.86ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

25

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	On site	Corn Windmill	1886	1757365



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Tank	1914	1768512
A	On site	Unspecified Quarry	1950	1790375
A	On site	Unspecified Disused Quarry	1968 - 1978	1822759
B	On site	Windmills	1904	1764251
B	On site	Unspecified Quarry	1886	1786966
B	On site	Unspecified Quarry	1904	1820970
B	On site	Unspecified Quarry	1914 - 1938	1831883
C	6m SE	Unspecified Quarry	1950	1801914
C	6m SE	Unspecified Quarry	1978	1809327
C	6m SE	Unspecified Quarry	1968	1829721
C	24m SE	Unspecified Quarry	1914 - 1938	1805845
C	84m S	Unspecified Quarry	1904	1825960
E	99m S	Tramway Sidings	1904	1792991
E	147m S	Tramway Sidings	1950	1783793
E	173m S	Refuse Heap	1914 - 1938	1822816
E	173m S	Refuse Heap	1950	1833074
E	218m S	Tramway Sidings	1914 - 1938	1796183
E	218m S	Railway Buildings	1914 - 1938	1815750
E	236m S	Railway Building	1914 - 1938	1833243
E	262m S	Railway Building	1914 - 1938	1784964
E	305m S	Railway Building	1914 - 1938	1821597
F	380m S	Unspecified Heaps	1950 - 1978	1799167
F	384m S	Unspecified Heaps	1914 - 1938	1783433
2	449m N	Bull Pits	1968 - 1978	1836375

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

3

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

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
D	54m S	Unspecified Tank	1983 - 1994	296889
D	61m S	Unspecified Tank	1963	283207
1	373m E	Unspecified Tank	1994	283206

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

0

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

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

2 Past land use - un-grouped



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

2.1 Historical industrial land uses

Records within 500m

38

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

Features are displayed on the Past land use - un-grouped map on **page 18**

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Quarry	1950	1790375
A	On site	Unspecified Disused Quarry	1968	1822759
A	On site	Unspecified Disused Quarry	1978	1822759



ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tank	1914	1768512
A	On site	Corn Windmill	1886	1757365
B	On site	Windmills	1904	1764251
B	On site	Unspecified Quarry	1938	1831883
B	On site	Unspecified Quarry	1914	1831883
B	On site	Unspecified Quarry	1886	1786966
B	On site	Unspecified Quarry	1904	1820970
C	6m SE	Unspecified Quarry	1950	1801914
C	6m SE	Unspecified Quarry	1968	1829721
C	6m SE	Unspecified Quarry	1978	1809327
C	24m SE	Unspecified Quarry	1938	1805845
C	24m SE	Unspecified Quarry	1914	1805845
C	84m S	Unspecified Quarry	1904	1825960
E	99m S	Tramway Sidings	1904	1792991
E	147m S	Tramway Sidings	1950	1783793
E	173m S	Refuse Heap	1938	1822816
E	173m S	Refuse Heap	1914	1822816
E	173m S	Refuse Heap	1950	1833074
E	218m S	Tramway Sidings	1938	1796183
E	218m S	Railway Buildings	1938	1815750
E	218m S	Railway Buildings	1914	1815750
E	218m S	Tramway Sidings	1914	1796183
E	236m S	Railway Building	1938	1833243
E	236m S	Railway Building	1914	1833243
E	262m S	Railway Building	1938	1784964
E	262m S	Railway Building	1914	1784964
E	305m S	Railway Building	1938	1821597
E	305m S	Railway Building	1914	1821597



ID	Location	Land Use	Date	Group ID
F	380m S	Unspecified Heaps	1950	1799167
F	380m S	Unspecified Heaps	1968	1799167
F	380m S	Unspecified Heaps	1978	1799167
F	384m S	Unspecified Heaps	1938	1783433
F	384m S	Unspecified Heaps	1914	1783433
G	449m N	Bull Pits	1968	1836375
G	449m N	Bull Pits	1978	1836375

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

4

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

Features are displayed on the Past land use - un-grouped map on **page 18**

ID	Location	Land Use	Date	Group ID
D	54m S	Unspecified Tank	1983	296889
D	54m S	Unspecified Tank	1994	296889
D	61m S	Unspecified Tank	1963	283207
1	373m E	Unspecified Tank	1994	283206

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.



2.4 Historical petrol stations

Records within 500m	0
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Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	0
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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

3.1 Active or recent landfill

Records within 500m

1

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on [page 22](#)

ID	Location	Details	
A	On site	Operator: Earl Shilton Recycling Ltd Site Address: Barrow Hill Quarry, Mill Lane, Earl Shilton, Leicestershire, LE9 7AW	WML Number: 403913 EPR Reference: EAR002 Landfill type: L05: Inert LF Status: Issued IPPC Reference: - EPR Number: EA/EPR/EP3194VB/A001

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



3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

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

1

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 22**

ID	Location	Details		
A	On site	Site Address: Barrow Hill Quarry, Mill Lane, Earl Shilton, Potters Marston, Leicestershire Licence Holder Address: Copt Oak Road, Leicester, Markfield, Leicestershire	Waste Licence: Yes Site Reference: WD20 B142, NE4243 Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: YQ1/L/WOM001 Licence Issue: 21/09/1977 Licence Surrender: 08/07/2010	Operator: Barrow Hill Quarry Licence Holder: Barrow Hill Quarry First Recorded 31/12/1977 Last Recorded: -

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

3.5 Historical waste sites

Records within 500m

1

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

Features are displayed on the Waste and landfill map on **page 22**

ID	Location	Address	Further Details	Date
B	On site	Site Address: Barrow Hill Quarry, Mill Lane, Earl Shilton, Leicestershire, LE9 7AW	Type of Site: Waste Recycling Unit Planning application reference: 2016/CM/0302/LCC (2016/1119/04) Description: Scheme comprises restoration of the former Barrow Hill Quarry to an agricultural use with inert waste and soils, including temporary passing bays on Mill Lane. Data source: Historic Planning Application Data Type: Point	-

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

3.6 Licensed waste sites

Records within 500m	9
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on page 22

ID	Location	Details		
A	On site	Site Name: Barrow Hill Quarry Site Address: Barrow Hill Quarry, Mill Lane, Earl Shilton, Leicestershire, LE9 7AW Correspondence Address: -	Type of Site: Inert LF Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: EAR002 EPR reference: EA/EPR/EP3194VB/A001 Operator: Earl Shilton Recycling Ltd Waste Management licence No: 403913 Annual Tonnage: 9999	Issue Date: 31/10/2017 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	On site	Site Name: Barrow Hill Quarry Site Address: Barrow Hill Quarry, Mill Lane, Earl Shilton, Potters Marston, Leicestershire, LE9 7AW Correspondence Address: -	Type of Site: Inert & excavation Waste TS + treatment Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: EAR001 EPR reference: EA/EPR/FB3100LR/A001 Operator: Earl Shilton Recycling Ltd Waste Management licence No: 403988 Annual Tonnage: 74999	Issue Date: 16/05/2017 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
B	On site	Site Name: Barrow Hill Quarry Site Address: Barrow Hill Quarry, Mill Lane, Earl Shilton, Potters Marston, Leicestershire, LE9 7AW Correspondence Address: -	Type of Site: Inert & excavation Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: EAR001 EPR reference: EA/EPR/FB3100LR/A001 Operator: Earl Shilton Recycling Ltd Waste Management licence No: 403988 Annual Tonnage: 74999	Issue Date: 16/05/2017 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
C	9m SE	Site Name: Barrow Hill Quarry Site Address: Mill Lane, Potters Marston, Earl Shilton, Leicestershire, LE9 7AW Correspondence Address: Bardon Hill, Coalville, Leicester, Leicestershire, LE67 1TL	Type of Site: Landfill taking other wastes Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CAM002 EPR reference: - Operator: Aggregate Industries Plc Waste Management licence No: 43356 Annual Tonnage: 0	Issue Date: 21/09/1977 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
C	9m SE	Site Name: Barrow Hill Quarry Site Address: Land/premises At, Mill Lane, Potters Marston, Earl Shilton, Leicestershire, LE9 7AW Correspondence Address: -	Type of Site: Landfill taking other wastes Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CAM002 EPR reference: WP3993CN/S002 Operator: Aggregate Industries Limited Waste Management licence No: 43356 Annual Tonnage: 0	Issue Date: 21/09/1977 Effective Date: - Modified: - Surrendered Date: 08/07/2010 Expiry Date: - Cancelled Date: - Status: Surrendered



ID	Location	Details		
C	9m SE	Site Name: Barrow Hill Quarry Site Address: Land/premises At, Mill Lane, Potters Marston, Earl Shilton, Leicestershire, LE9 7AW Correspondence Address: -	Type of Site: Landfill taking other wastes Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CAM002 EPR reference: EA/EPR/WP3993CN/S002 Operator: Aggregate Industries Ltd Waste Management licence No: 43356 Annual Tonnage: 0	Issue Date: 21/09/1977 Effective Date: - Modified: - Surrendered Date: Jul 8 2010 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
C	9m SE	Site Name: Barrow Hill Quarry Site Address: Land/premises At, Mill Lane, Potters Marston, Earl Shilton, Leicestershire, LE9 7AW Correspondence Address: -	Type of Site: Landfill taking other wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CAM002 EPR reference: EA/EPR/WP3993CN/S002 Operator: Aggregate Industries Ltd Waste Management licence No: 43356 Annual Tonnage: 0	Issue Date: 21/09/1977 Effective Date: - Modified: - Surrendered Date: Jul 8 2010 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
C	10m SE	Site Name: Barrow Hill Quarry Site Address: Mill Lane, Potters Marston, Earl Shilton, Leicestershire, LE9 7AW Correspondence Address: Bardon Hill, Coalville, Leicester, Leicestershire, LE67 1TL	Type of Site: Landfill taking other wastes Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: CAM002 EPR reference: - Operator: C A M A S Aggregates U K Ltd Waste Management licence No: 43356 Annual Tonnage: 0	Issue Date: 21/09/1977 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
C	10m SE	Site Name: Barrow Hill Quarry Site Address: Mill Lane, Potters Marston, Earl Shilton, Leicestershire, LE9 7AW Correspondence Address: Bardon Hill, Coalville, Leicester, Leicestershire, LE67 1TL	Type of Site: Landfill taking other wastes Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CAM002 EPR reference: - Operator: C A M A S Aggregates U K Ltd Waste Management licence No: 43356 Annual Tonnage: 0	Issue Date: 21/09/1977 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

3.7 Waste exemptions

Records within 500m	6
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

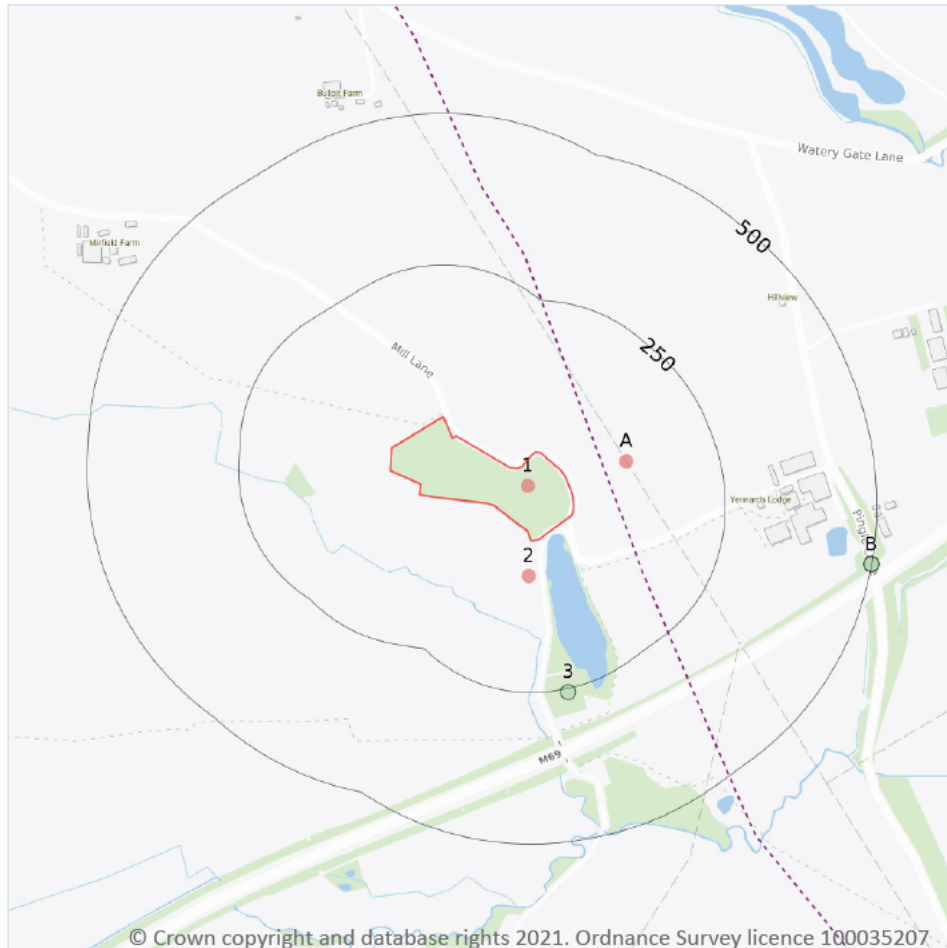
Features are displayed on the Waste and landfill map on **page 22**

ID	Location	Site	Reference	Category	Sub-Category	Description
D	160m S	Land off Mill Lane Off Mill Lane Leicestershire	EPR/HF0603EF/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
D	160m S	Land off Mill Lane Off Mill Lane Leicestershire	EPR/HF0603EF/A001	Treating waste exemption	Non-Agricultural Waste Only	Screening and blending of waste
D	160m S	Land off Mill Lane Off Mill Lane Leicestershire	EPR/HF0603EF/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
1	257m S	land off Mill Laner, Mill Lane, Earl Shilton, le9 7tr	WEX153939	Using waste exemption	On a Farm	Use of waste in construction
E	488m E	DAGLEYS FARM, POTTERS MARSTON LANE, THURLASTON, LEICESTER, LE9 7TR	WEX242857	Using waste exemption	On a farm	Use of waste in construction
E	488m E	DAGLEYS FARM, POTTERS MARSTON LANE, THURLASTON, LEICESTER, LE9 7TR	WEX100733	Using waste exemption	On a farm	Use of waste in construction

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Gas pipelines
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

3

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 28**

ID	Location	Company	Address	Activity	Category
1	On site	Barrow Hill Quarry (Disused)	Leicestershire, LE9	Unspecified Quarries Or Mines	Extractive Industries
2	58m S	Tank	Leicestershire, LE9	Tanks (Generic)	Industrial Features
A	103m E	Pylon	Leicestershire, LE9	Electrical Features	Infrastructure and Facilities



This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

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

Open, closed, under development and obsolete petrol stations.

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	1
---------------------	---

High pressure underground gas transmission pipelines.

Features are displayed on the Current industrial land use map on **page 28**

ID	Location	Pipe Name	Details	
A	63m E	BLABY TO ALREWAS	Pipe Number: - Pipeline Safety Regulations Number: - Ownership: National Grid Maximum Operating Pressure (Bar): -	Pipeline Diameter (mm): 900 Wall Thickness (mm): - Year of commission: Not specified Abandonment Status: Not abandoned

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	0
---------------------	---

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

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

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

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

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

4.13 Licensed Discharges to controlled waters

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

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

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

4.14 Pollutant release to surface waters (Red List)

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

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

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

4.15 Pollutant release to public sewer

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

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m

0

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

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

4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

4

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

Features are displayed on the Current industrial land use map on **page 28**

ID	Location	Details	
3	255m S	Incident Date: 09/07/2001 Incident Identification: 14835 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
B	498m E	Incident Date: 05/03/2002 Incident Identification: 62042 Pollutant: Agricultural Materials and Wastes:Oils and Fuel Pollutant Description: Slurry and Dilute Slurry:Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	498m E	Incident Date: 05/03/2002 Incident Identification: 62042 Pollutant: Agricultural Materials and Wastes Pollutant Description: Slurry and Dilute Slurry	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	498m E	Incident Date: 05/03/2002 Incident Identification: 62042 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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



4.19 Pollution inventory substances

Records within 500m

0

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

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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

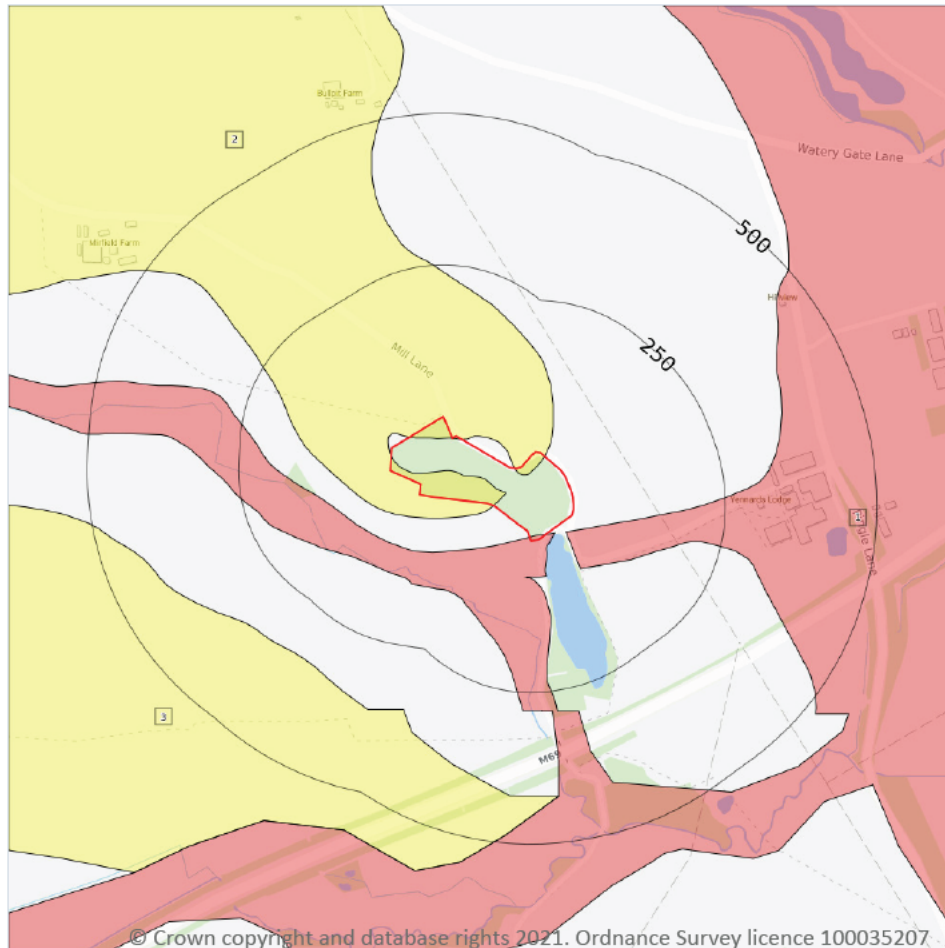
Records within 500m

0

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

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

5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

3

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 34](#)

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 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

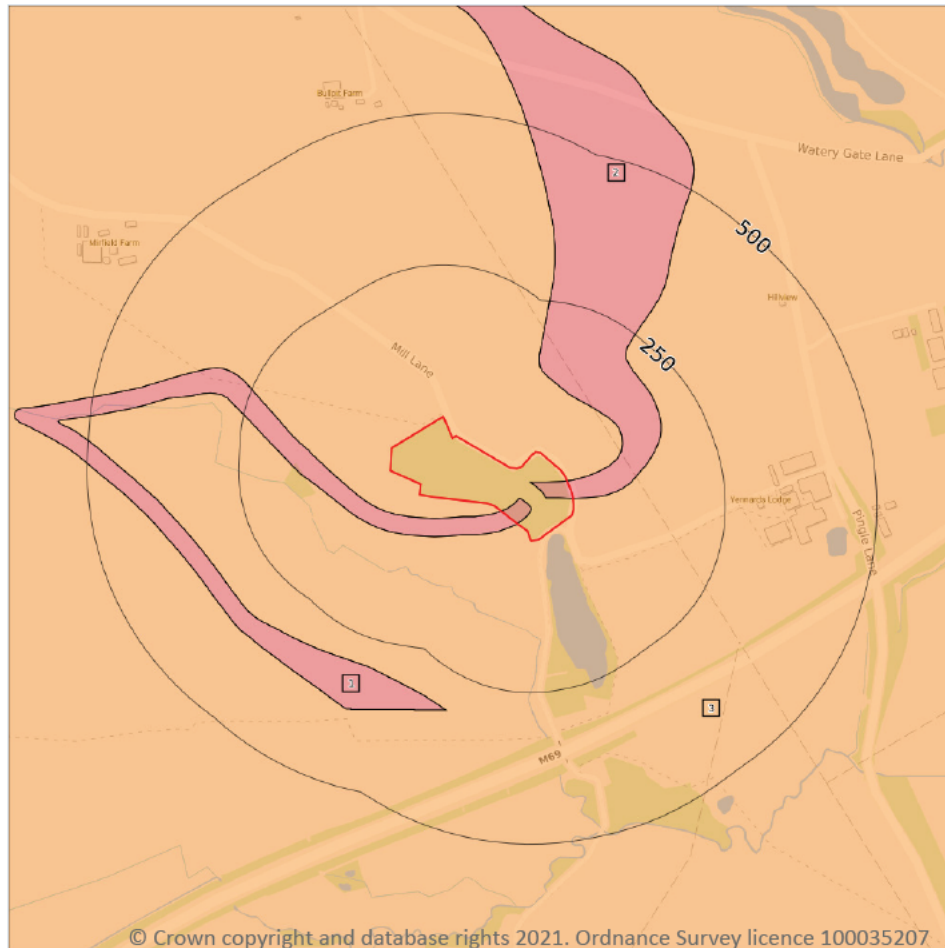


ID	Location	Designation	Description
3	331m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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



Bedrock aquifer



— Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

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5.2 Bedrock aquifer

Records within 500m

3

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 36](#)

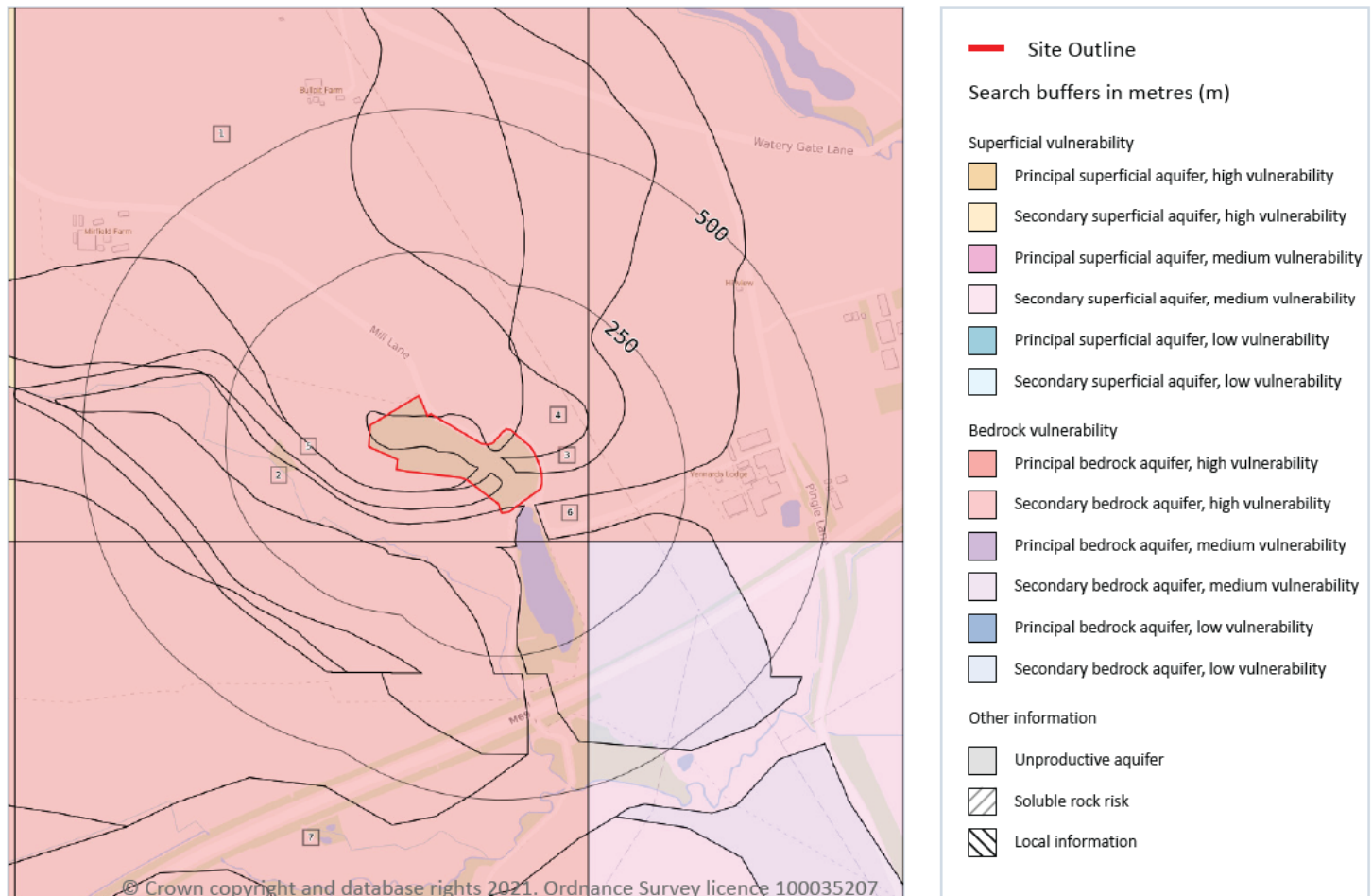
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary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

ID	Location	Designation	Description
3	On site	Secondary 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



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 38**



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High 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: Intermediate Infiltration value: 40- 70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
6	16m SE	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
7	48m S	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures



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

5.4 Groundwater vulnerability- soluble rock risk

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

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

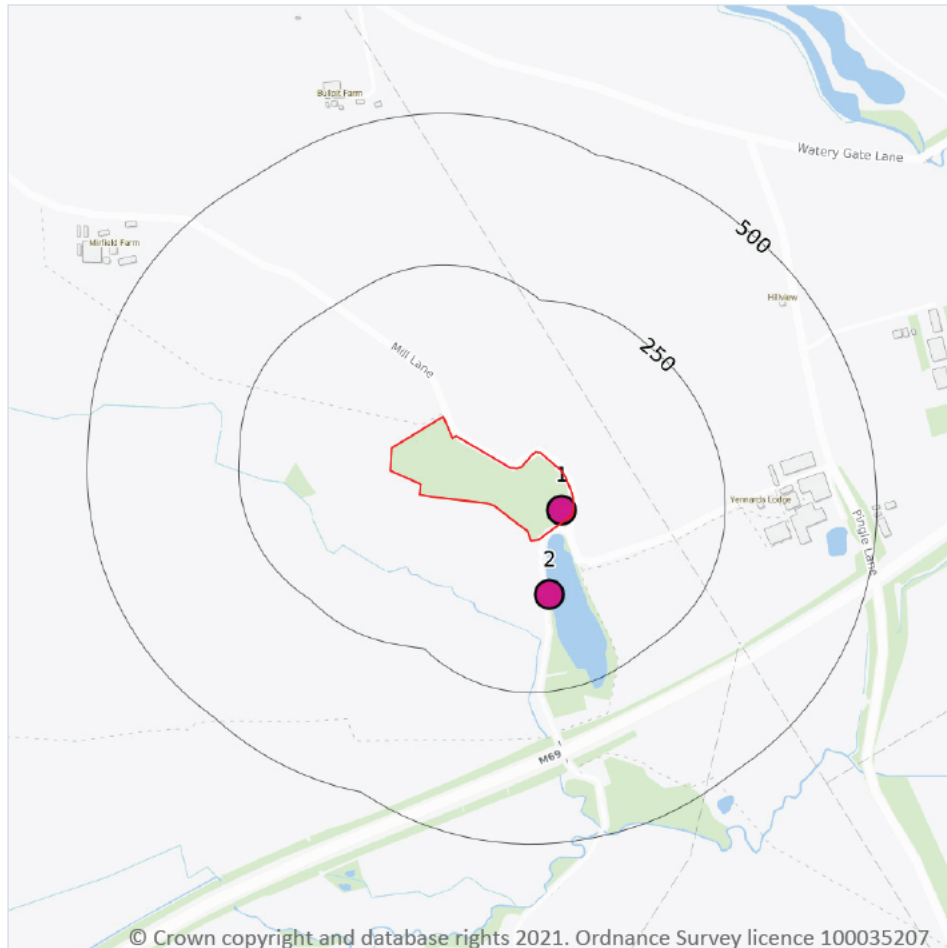
5.5 Groundwater vulnerability- local information

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

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

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

Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

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 41**

ID	Location	Details	
1	On site	Status: Active Licence No: 03/28/50/0124 Details: Process Water Direct Source: Groundwater Midlands Region Point: BARLOW HILL QUARRY, EARL SHILTON Data Type: Point Name: CALOR GAS LIMITED Easting: 448900 Northing: 297100	Annual Volume (m³): 9,092 Max Daily Volume (m³): 336 Original Application No: - Original Start Date: 15/05/1981 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1989 Version End Date: -
2	93m S	Status: Historical Licence No: 03/28/50/0122 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: THE YENNARDS Data Type: Point Name: R JONES & SONS Easting: 448880 Northing: 296960	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 28/05/1980 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
-	1113m SE	Status: Historical Licence No: 03/28/50/0074 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: POTTERS MARSTON HALL Data Type: Point Name: HOLT Easting: 449700 Northing: 296300	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 03/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
-	1466m SE	Status: Historical Licence No: 03/28/50/0125 Details: Spray Irrigation - Direct Direct Source: Groundwater Midlands Region Point: POTTERS KILN,NR CROFT - BOREHOLE Data Type: Point Name: BRITISH WORM BREEDERS Easting: 450240 Northing: 296460	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 03/08/1982 Expiry Date: - Issue No: 100 Version Start Date: 04/04/1997 Version End Date: -

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

5.7 Surface water abstractions

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

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



5.8 Potable abstractions

Records within 2000m	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)

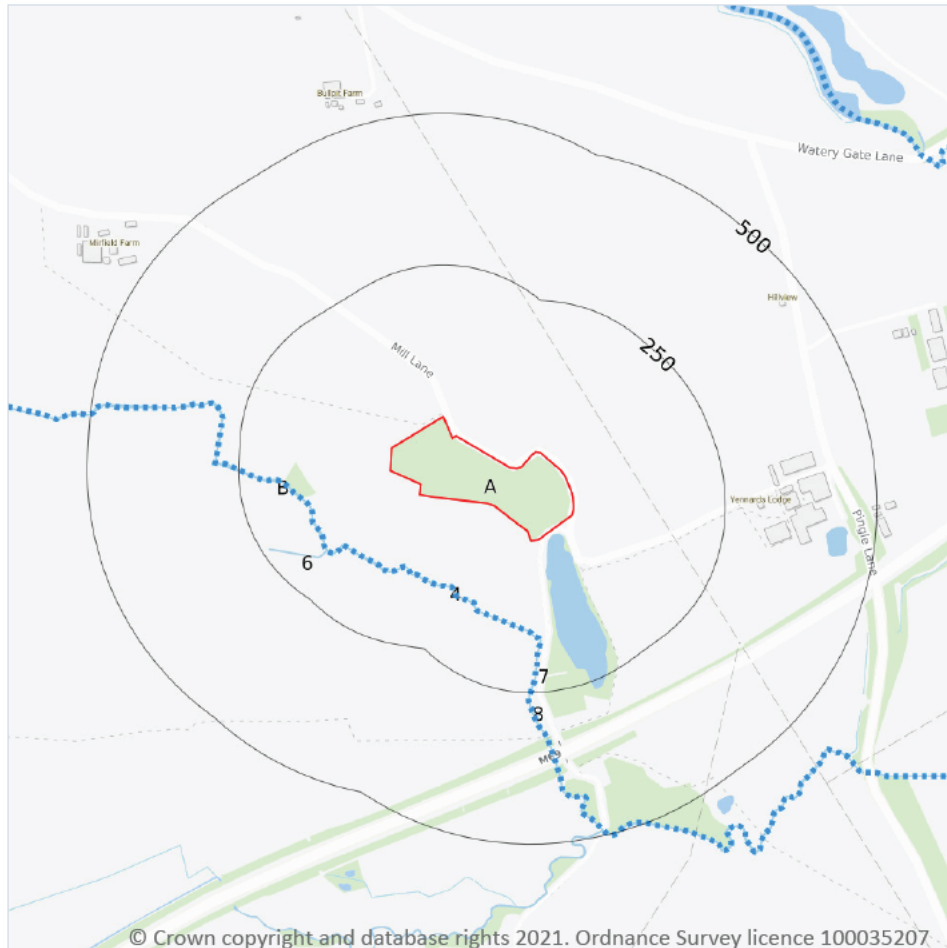
Records within 500m	0
---------------------	---

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

5

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

Features are displayed on the Hydrology map on **page 44**

ID	Location	Type of water feature	Ground level	Permanence	Name
4	121m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
B	144m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	167m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	209m S	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
8	211m S	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

4

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 44**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 44**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River WB catchment	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

1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 44**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
3	121m S	River	Thurlaston Brook Catchment (trib of Soar)	GB104028046940	Poor	Good	Poor	2016

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 44**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Soar - Secondary Combined	GB40402G990600	Good	Good	Good	2015

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 Sea (RoFRaS)

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

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

7.2 Historical Flood Events

Records within 250m

0

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

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

7.3 Flood Defences

Records within 250m

0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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



7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0
--------------------	---

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

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

7.7 Flood Zone 3

Records within 50m	0
--------------------	---

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

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 50**

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

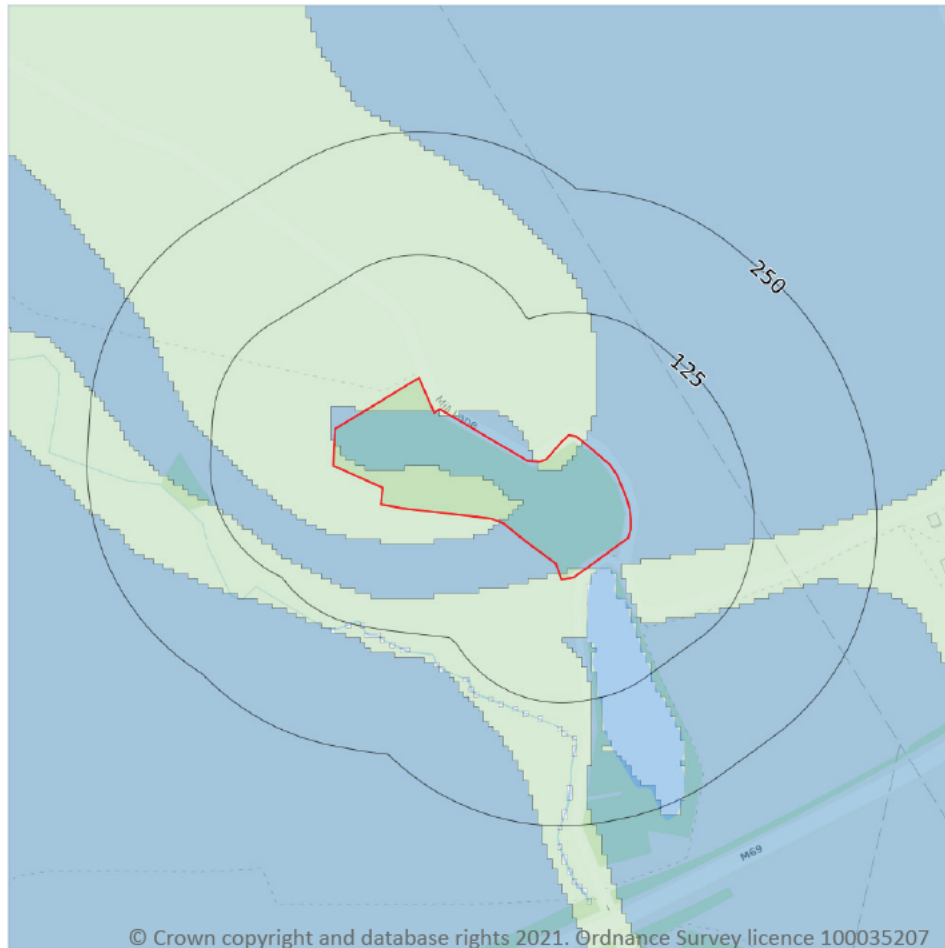
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 1.0m

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

Low

Highest risk within 50m

Low

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 52**

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

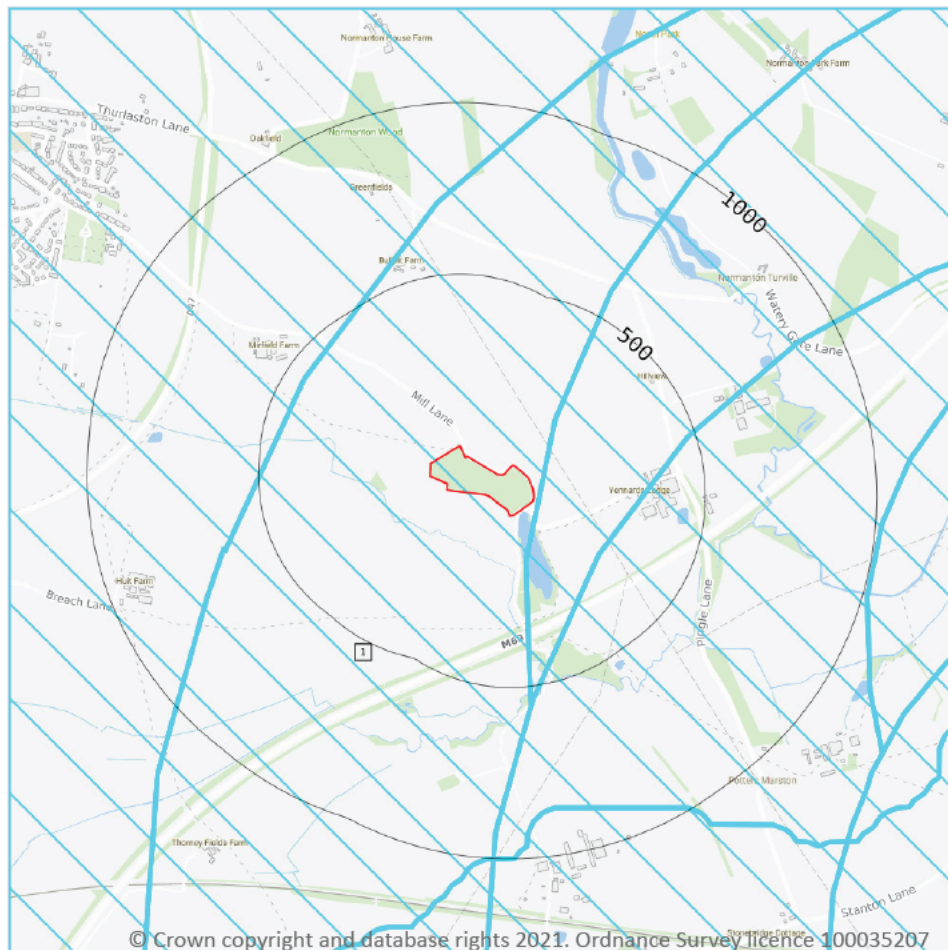
2

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	S309	Existing
1066m S	SOAR R NVZ	Surface Water	S309	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. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t. Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream (NB This does not include discharges to mains sewer which are unlikely to pose a risk at this location)

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0
----------------------	---

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

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

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

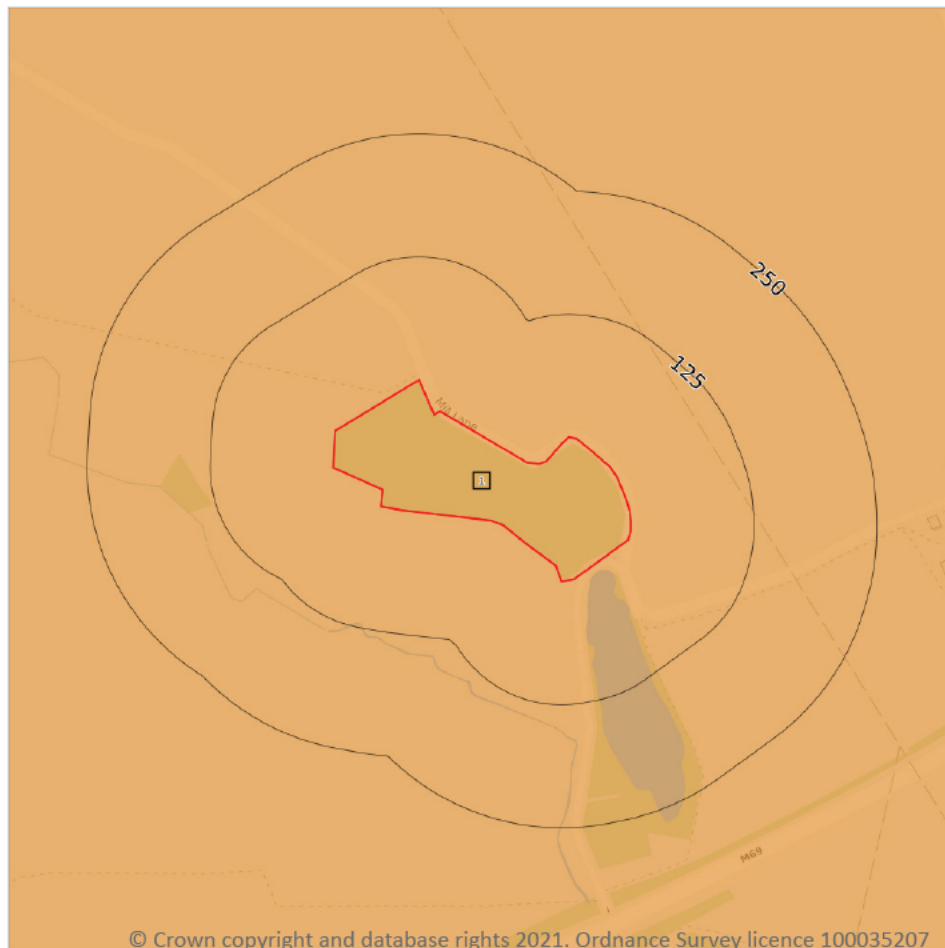
Records within 250m

0

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

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

12 Agricultural designations



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

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12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on **page 61**

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

This data is sourced from Natural England.



12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

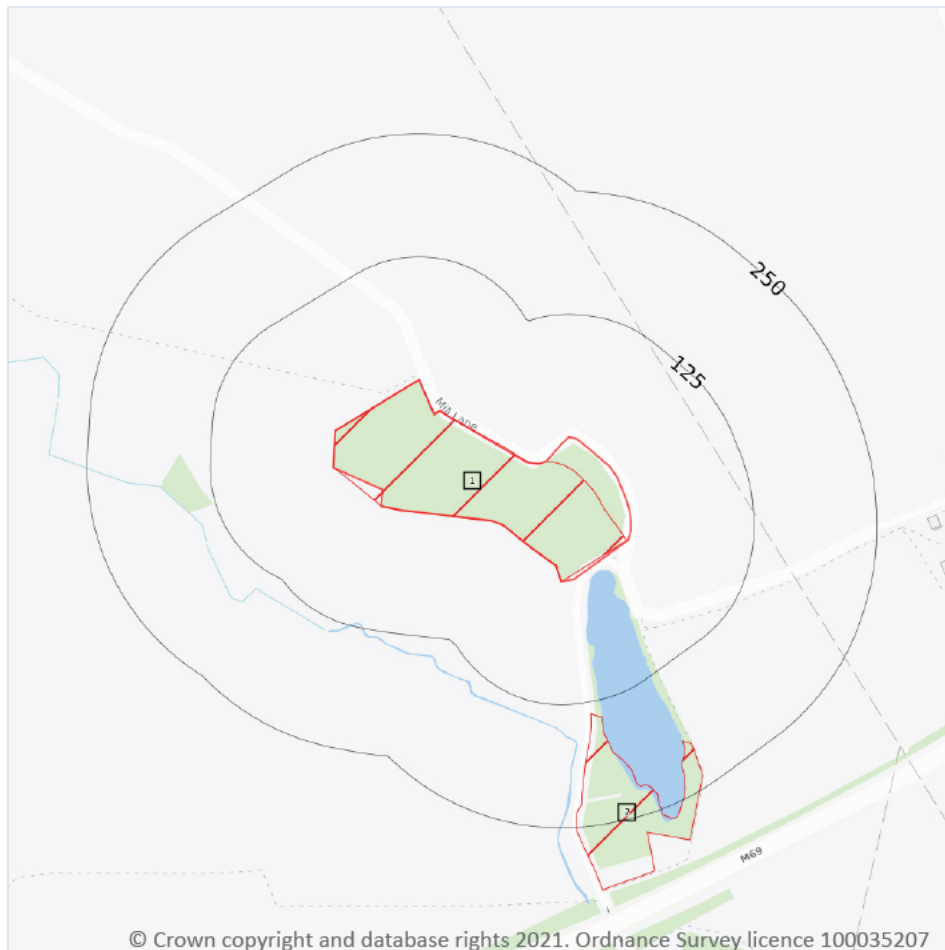
Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.

13 Habitat designations



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

13.1 Priority Habitat Inventory

Records within 250m

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

2

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

Features are displayed on the Habitat designations map on [page 63](#)

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	On site	NLUD Ref: 242000112; BRITPITS ref: 10526	Low	National Land Use Database - Previously Developed Land	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography
2	138m S	NLUD Ref: 242000111; BRITPITS ref: 10527	Low	National Land Use Database - Previously Developed Land	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



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

14.1 10k Availability

Records within 500m

1

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

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

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SP49NE

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

3

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.

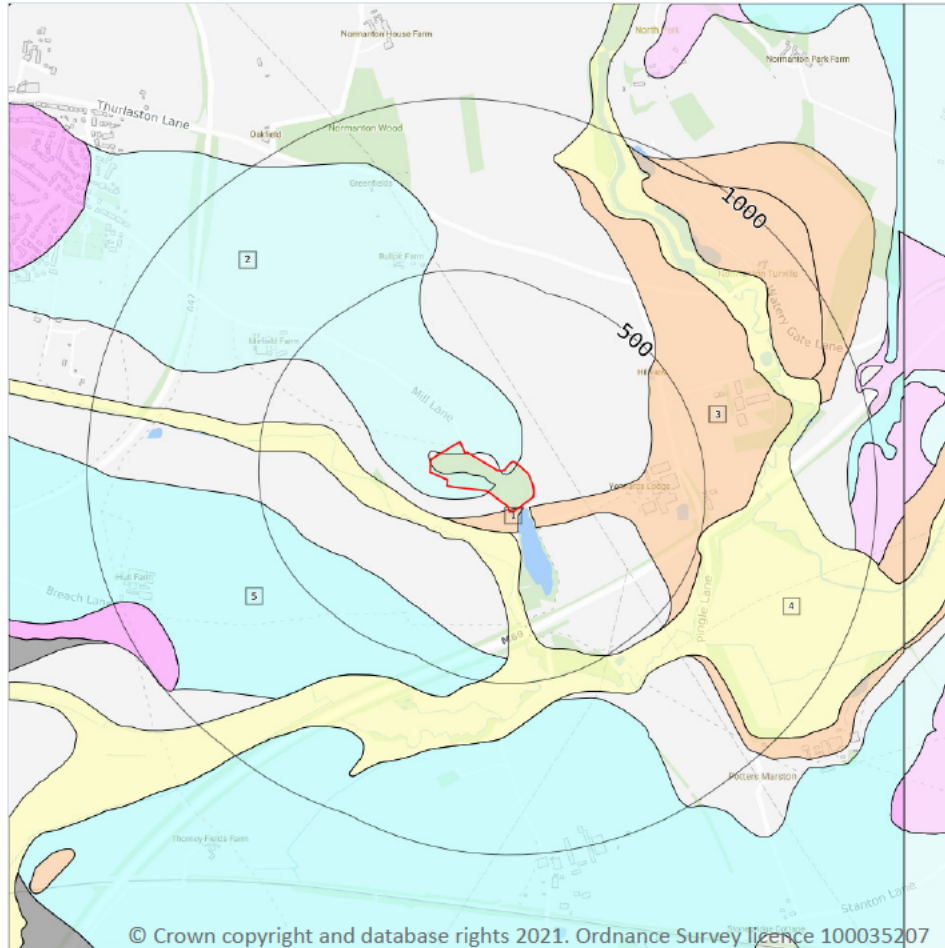
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 66](#)

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	On site	WGR-VOID	Worked Ground (Undivided)	Void
3	168m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

5

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

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

ID	Location	LEX Code	Description	Rock description
1	On site	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
2	On site	THT-DMTN	Thrussington Member - Diamicton	Diamicton
3	16m SE	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
4	61m S	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel



ID	Location	LEX Code	Description	Rock description
5	331m SW	ODT-DMTN	Oadby Member - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

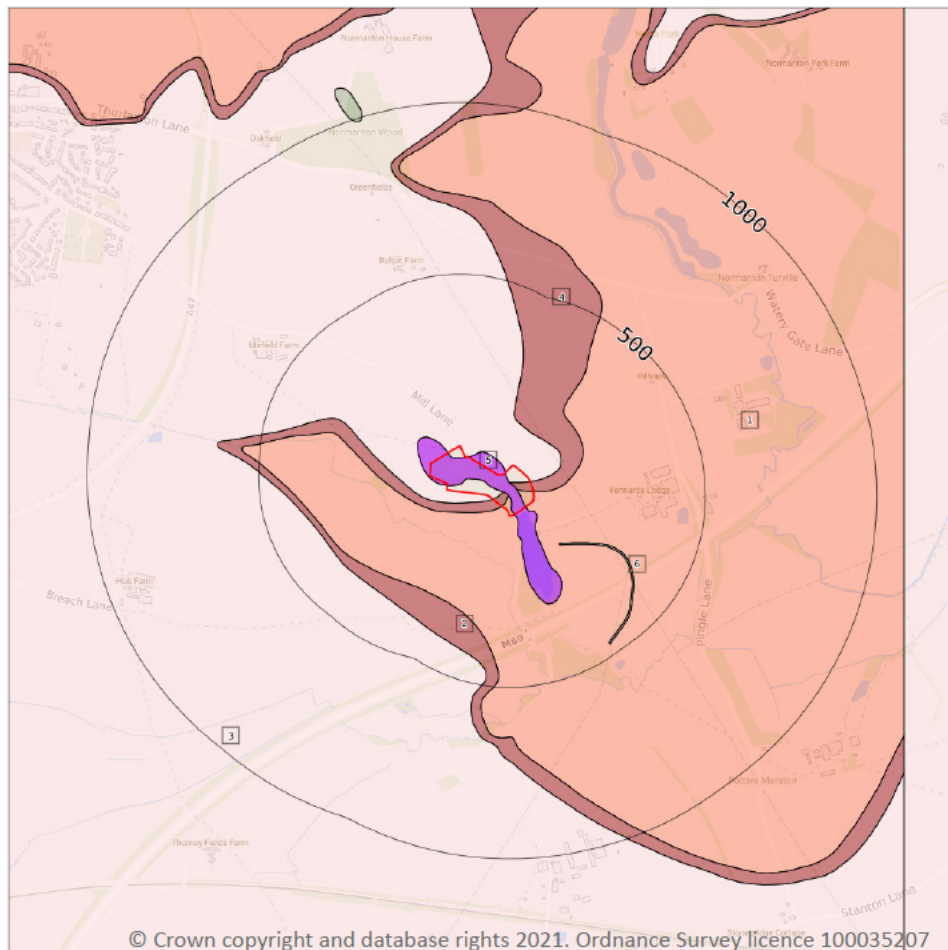
0

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

6

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

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

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

ID	Location	LEX Code	Description	Rock age
5	On site	SLED-QDI	South Leicestershire Diorite Complex - Quartz-diorite	Caradoc Epoch
6	145m SE	GUN-DSLST	Gunthorpe Member - Dolomitic Siltstone	Ladinian Age - Anisian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

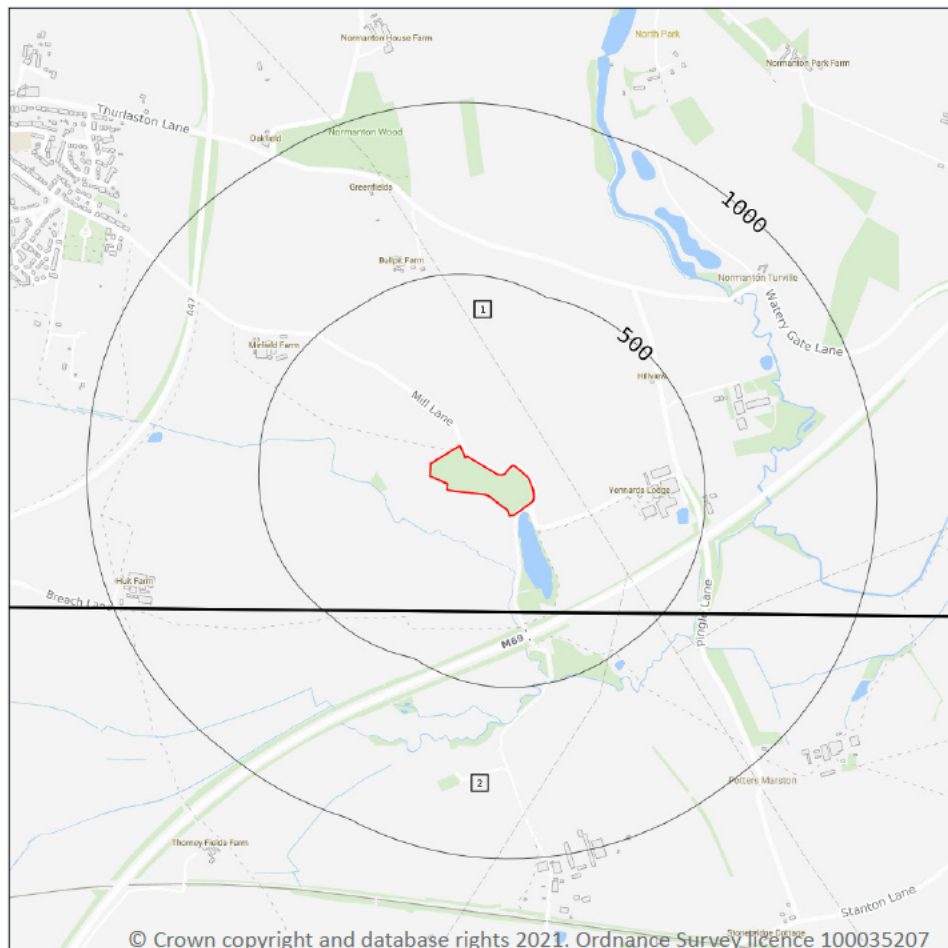
0

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

2

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

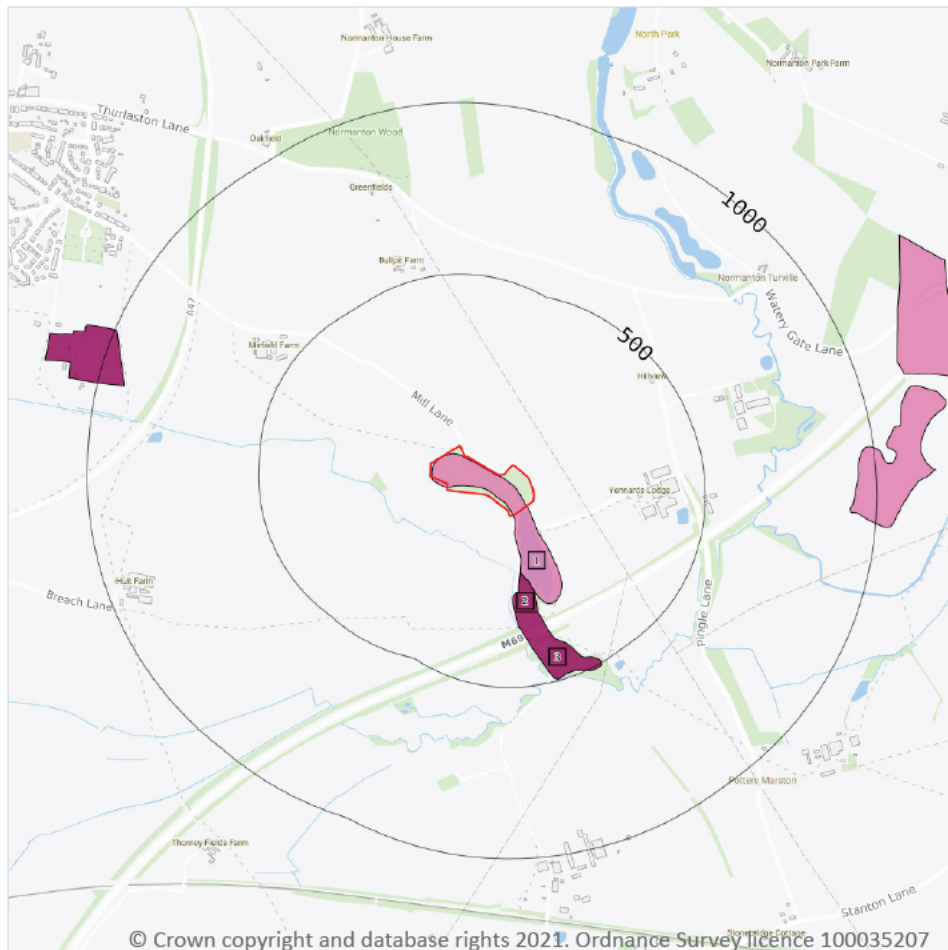
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 71](#)

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW155_coalville_v4
2	280m S	Full	Full	Full	No coverage	EW169_coventry_v4

This data is sourced from the British Geological Survey.



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



- Site Outline**
- Search buffers in metres (m)
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

3

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 72**

ID	Location	LEX Code	Description	Rock description
1	On site	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
2	168m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	280m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

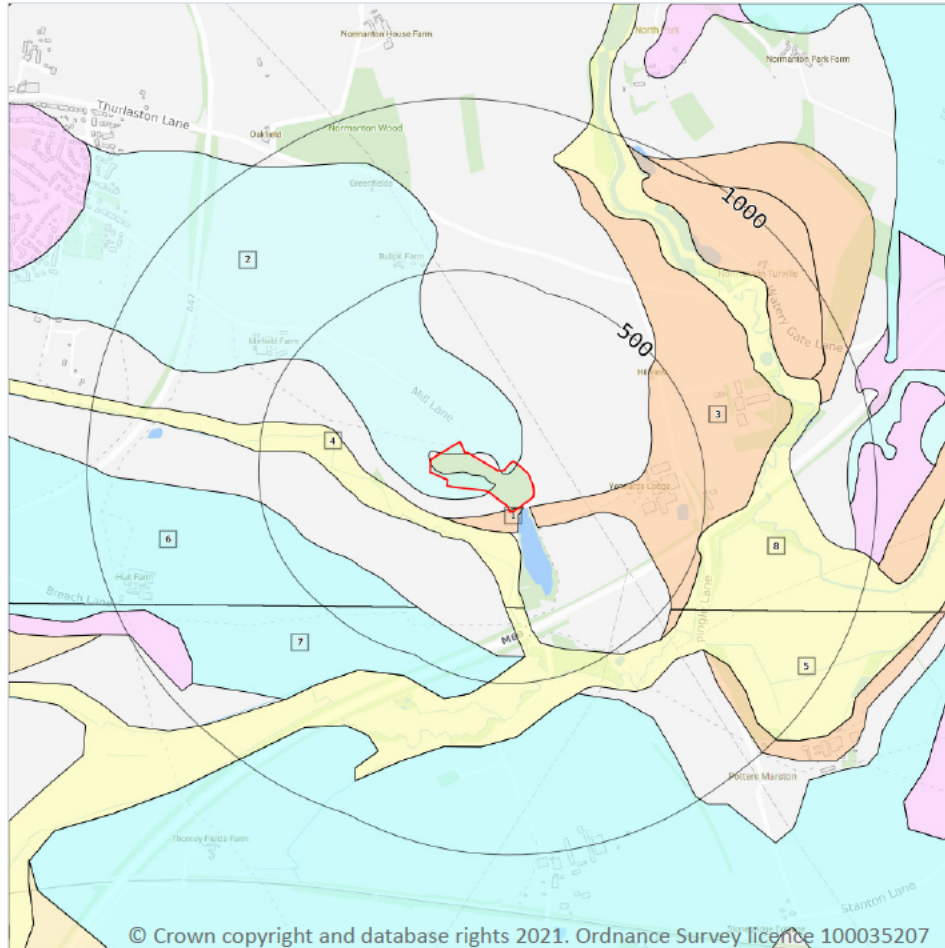
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



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

8

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 74**

ID	Location	LEX Code	Description	Rock description
1	On site	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
2	On site	THT-DMTN	THRUSSINGTON MEMBER	DIAMICTON
3	16m SE	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
4	60m S	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
5	280m S	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
6	331m SW	ODT-DMTN	OADBY MEMBER	DIAMICTON
7	365m S	ODT-DMTN	OADBY MEMBER	DIAMICTON
8	498m E	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	Mixed	High	Low
16m E	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

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

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

This data is sourced from the British Geological Survey.

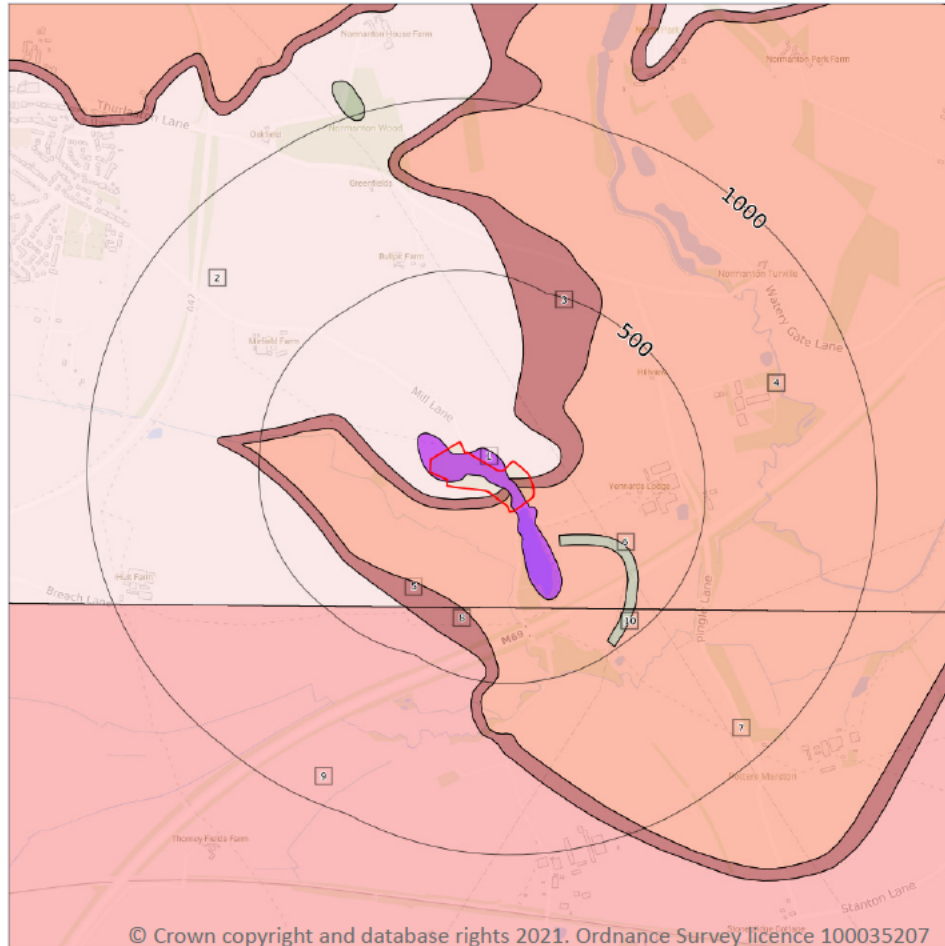
15.7 Landslip permeability (50k)

Records within 50m	0
--------------------	---

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



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

15.8 Bedrock geology (50k)

Records within 500m

10

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 76](#)

ID	Location	LEX Code	Description	Rock age
1	On site	SLED-QDI	SOUTH LEICESTERSHIRE DIORITE COMPLEX - QUARTZ-DIORITE	-
2	On site	EDW-MDST	EDWALTON MEMBER - MUDSTONE	CARNIAN
3	On site	COT-SDST	COTGRAVE SANDSTONE MEMBER - SANDSTONE	CARNIAN

ID	Location	LEX Code	Description	Rock age
4	On site	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
5	On site	COT-SDST	COTGRAVE SANDSTONE MEMBER - SANDSTONE	CARNIAN
6	135m SE	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN
7	280m S	GUN-MDST	GUNTHORPE MEMBER - MUDSTONE	ANISIAN
8	312m SW	COT-SDST	COTGRAVE SANDSTONE MEMBER - SANDSTONE	CARNIAN
9	374m S	MMG-MDST	MERCIA MUDSTONE GROUP - MUDSTONE	-
10	419m SE	GUN-DSLST	GUNTHORPE MEMBER - SILTSTONE, DOLOMITIC	ANISIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

5

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	High	Moderate
On site	Fracture	High	Moderate
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

1

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.

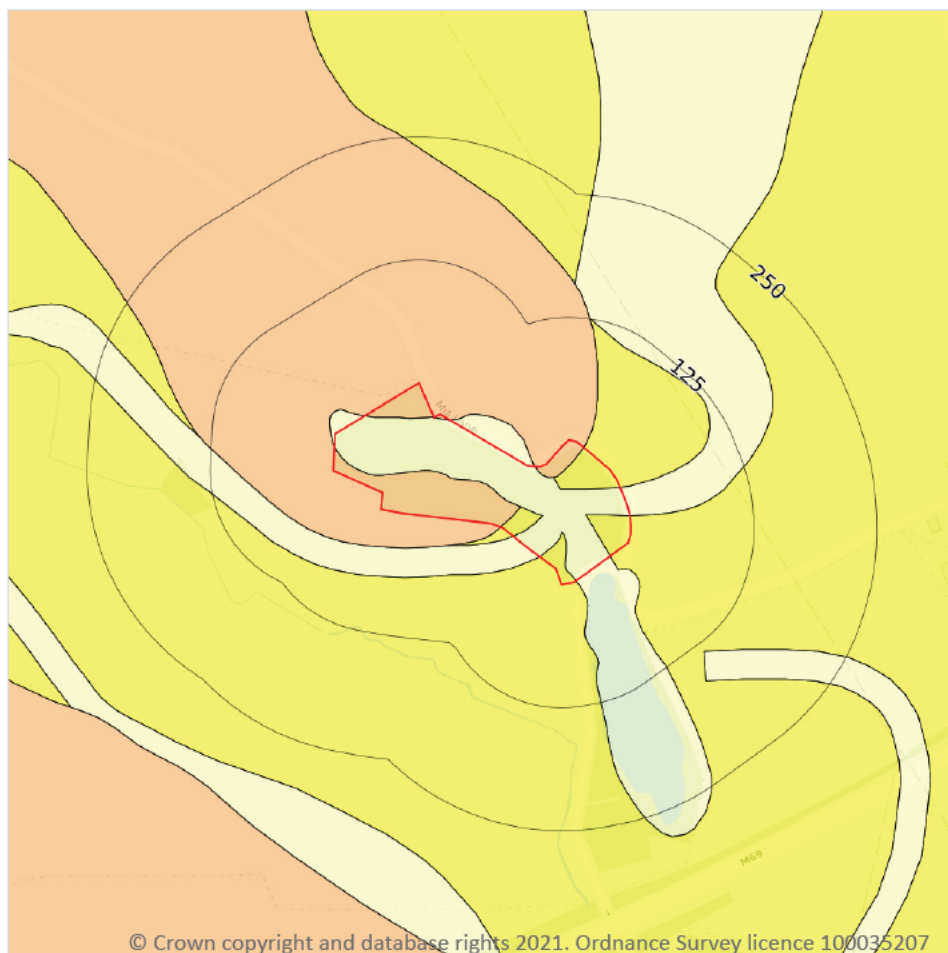
Features are displayed on the Boreholes map on **page 78**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	448900 297100	REDLAND PIPES LTD.QUARRY	-2.0	N	334126

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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

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17.1 Shrink swell clays

Records within 50m

3

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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 79**

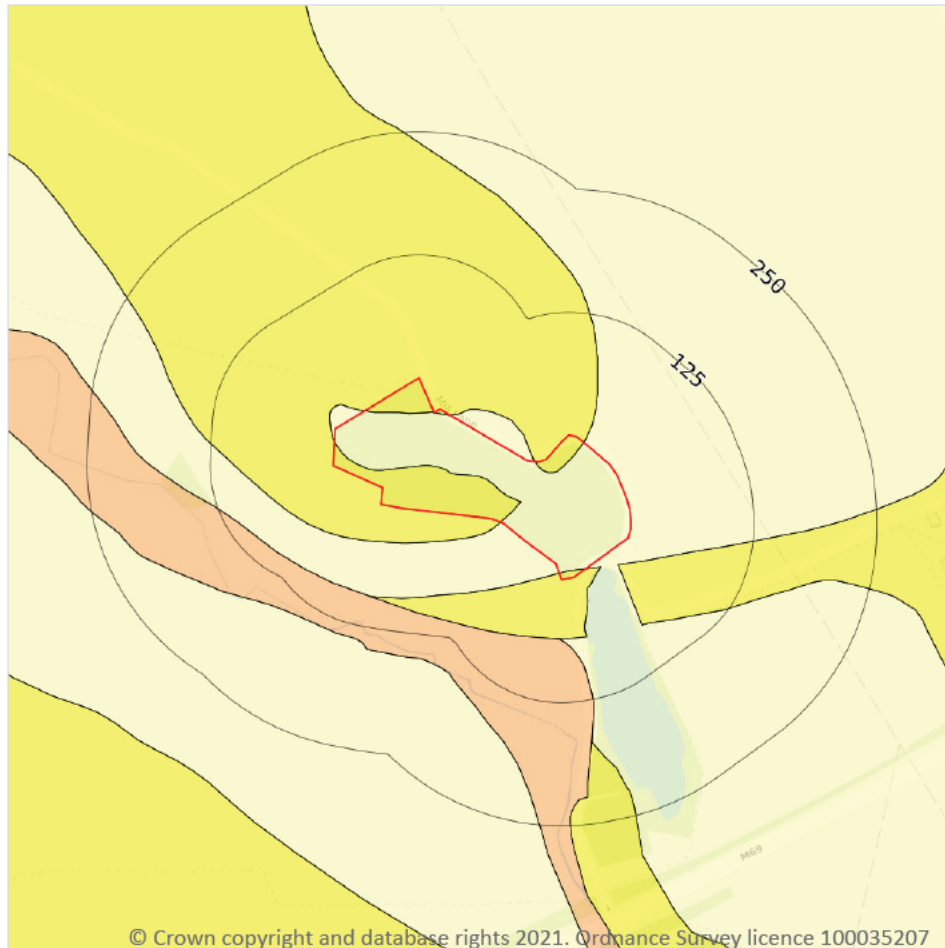
Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
On site	Low	Ground conditions predominantly medium plasticity.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

3

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**

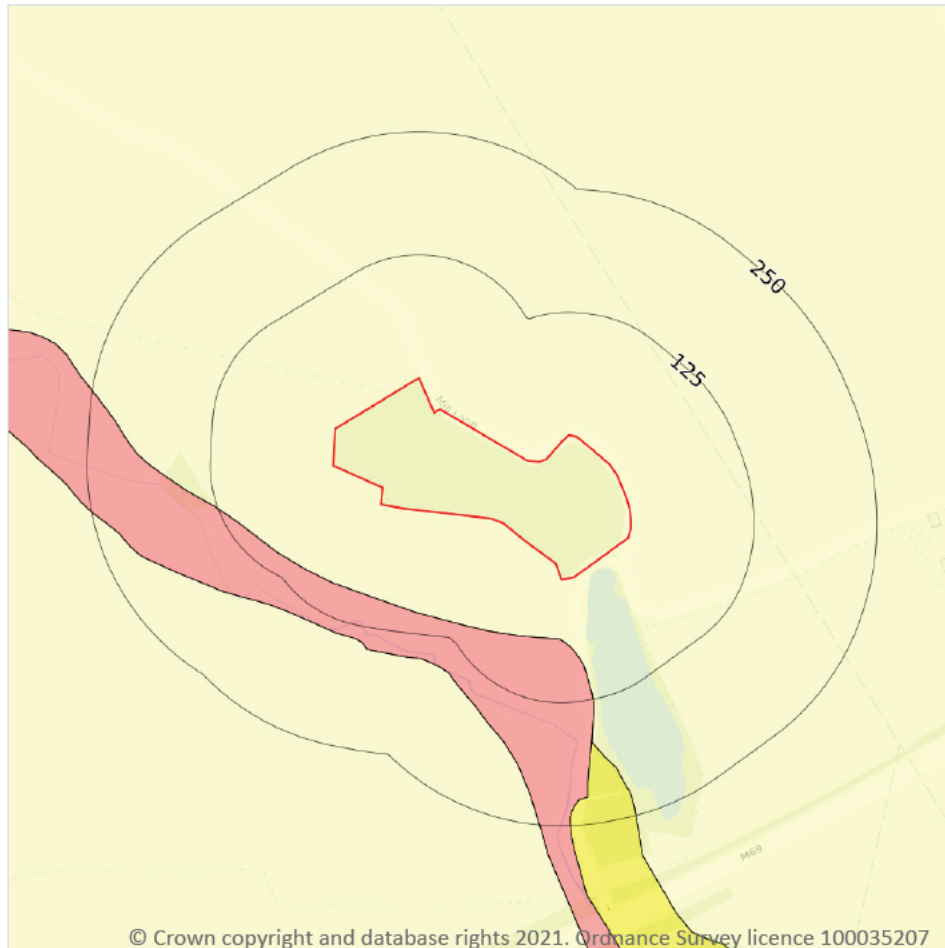
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

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.
16m SE	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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

17.3 Compressible deposits

Records within 50m

1

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

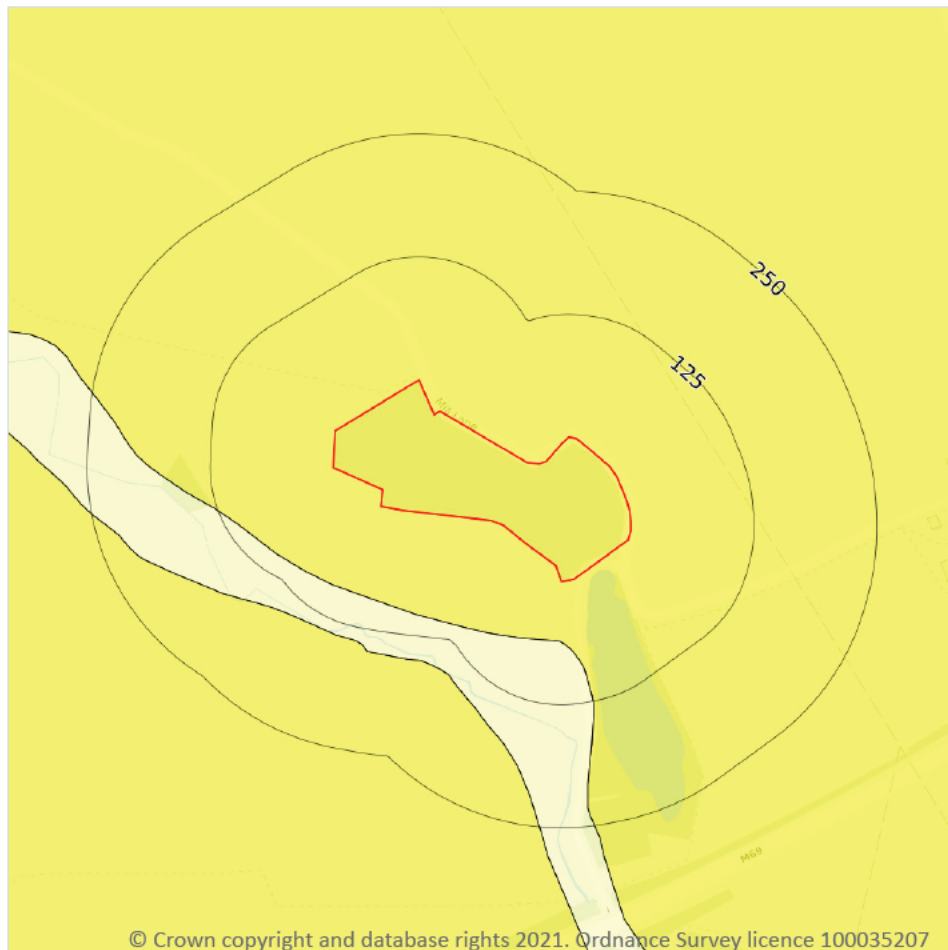
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 83**

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



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

17.4 Collapsible deposits

Records within 50m

1

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

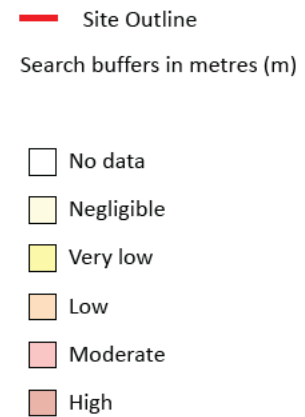
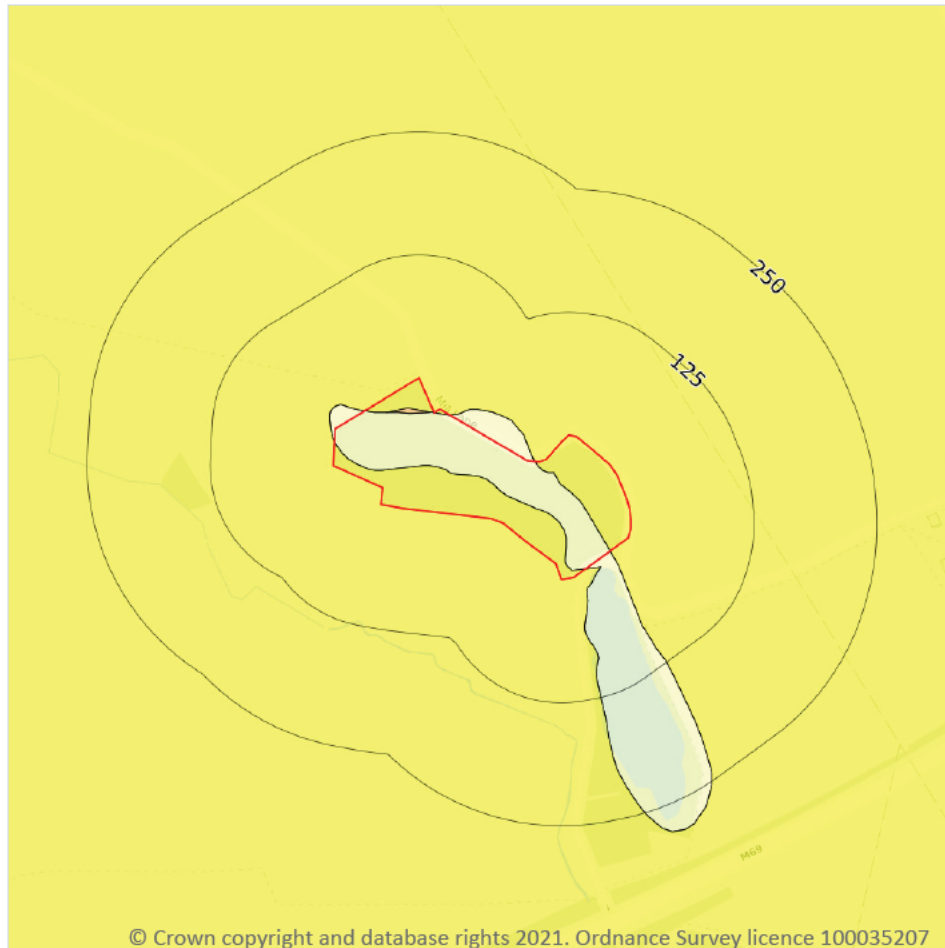
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 84](#)

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



17.5 Landslides

Records within 50m

3

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**

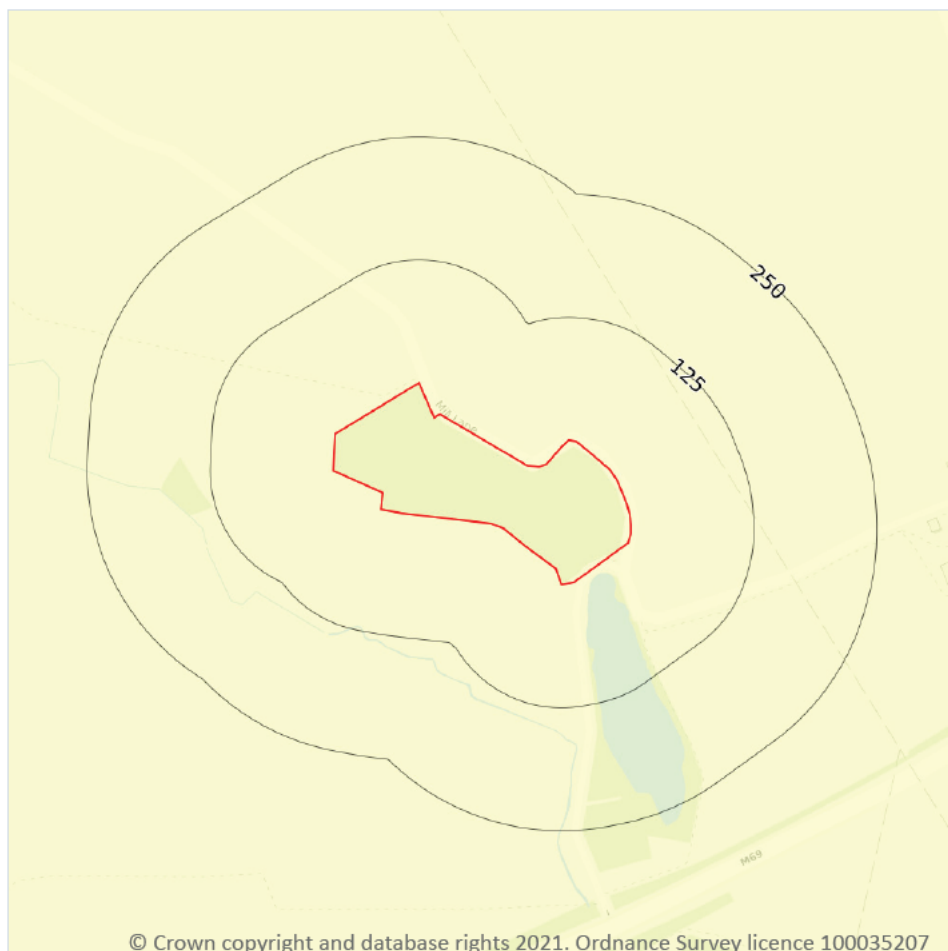
Location	Hazard rating	Details
On site	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

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.
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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

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 87**

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

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



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

18.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

2

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 88**

ID	Location	Details	Description
1	On site	Name: Barrow Hill Address: Earl Shilton, LEICESTER, Leicestershire Commodity: Igneous & Metamorphic Rock Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
C	132m SE	Name: Yennards Address: Earl Shilton, LEICESTER, Leicestershire Commodity: Igneous & Metamorphic Rock Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

19

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 88**

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Unspecified Quarry	1950	1:10560
A	On site	Unspecified Disused Quarry	1968	1:10560
A	On site	Unspecified Disused Quarry	1978	1:10000
B	On site	Pond	1968	1:10560
B	On site	Pond	1978	1:10000
B	On site	Unspecified Quarry	1904	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	On site	Unspecified Quarry	1938	1:10560
B	On site	Unspecified Quarry	1914	1:10560
B	On site	Unspecified Quarry	1886	1:10560
C	6m SE	Unspecified Quarry	1950	1:10560
C	6m SE	Unspecified Quarry	1968	1:10560
C	6m SE	Unspecified Quarry	1978	1:10000
C	24m SE	Unspecified Quarry	1938	1:10560
C	24m SE	Unspecified Quarry	1914	1:10560
C	31m SE	Pond	1978	1:10000
C	84m S	Unspecified Quarry	1904	1:10560
D	173m S	Refuse Heap	1938	1:10560
D	173m S	Refuse Heap	1914	1:10560
D	173m S	Refuse Heap	1950	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

1

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 88**



ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
3	On site	Earl Shilton (Yennards)	Igneous rock	Surface mineral working	Valid	1/5/47

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	1
----------------------	---

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 88**

ID	Location	Name	Commodity	Class	Likelihood
2	On site	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	0
----------------------	---

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

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

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

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

This data is sourced from Johnson Poole and Bloomer.



18.9 Coal mining

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

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

This data is sourced from the Coal Authority.

18.10 Brine areas

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

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

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

18.11 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

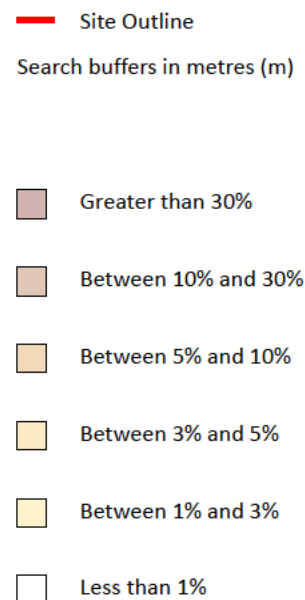
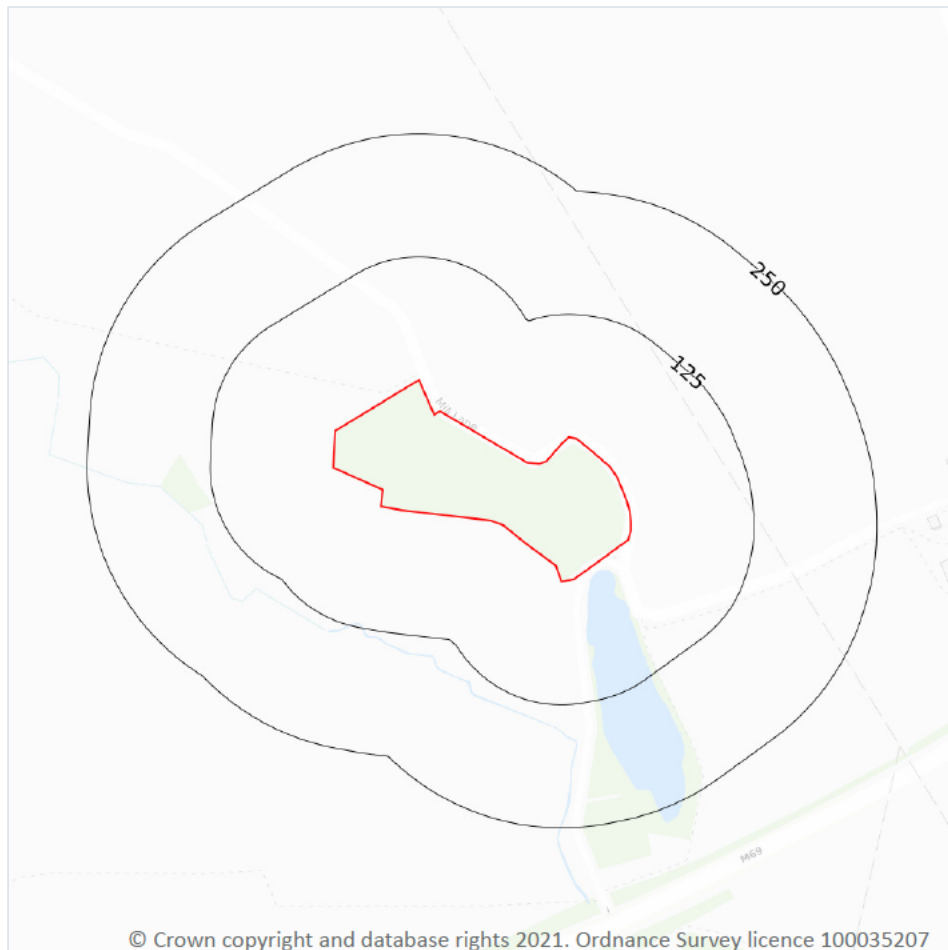
18.13 Clay mining

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

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

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

19 Radon



19.1 Radon

Records on site

1

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

Features are displayed on the Radon map on [page 93](#)

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

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



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

15

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	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	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	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 - 30 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
3m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
15m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
47m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
49m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
49m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
49m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg
49m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 mg/kg

This data is sourced from the British Geological Survey.



20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

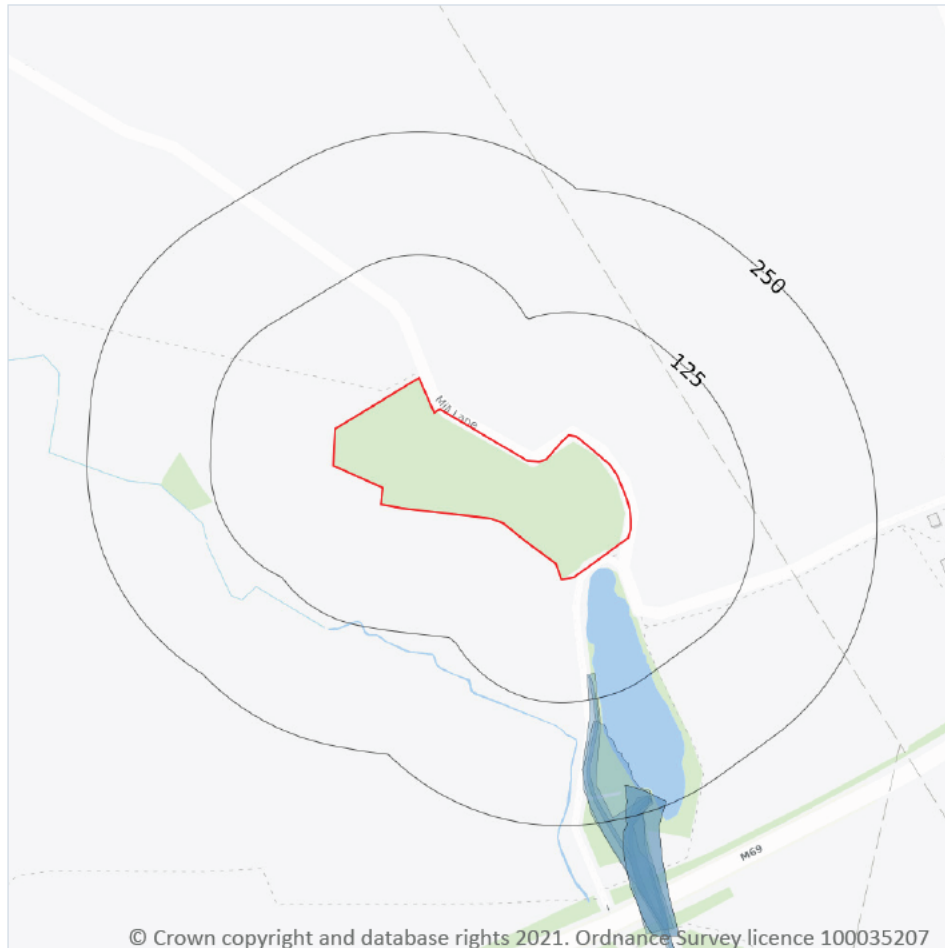
Records within 50m

0

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

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects



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

21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

6

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

Features are displayed on the Railway infrastructure and projects map on [page 96](#)

Location	Land Use	Year of mapping	Mapping scale
99m S	Tramway Sidings	1904	10560
102m S	Tramway Sidings	1903	2500
147m S	Tramway Sidings	1950	10560
218m S	Tramway Sidings	1938	10560
218m S	Tramway Sidings	1914	10560
233m S	Tramway Sidings	1916	2500

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.



21.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

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T: 01530 264 753
group@m-ec.co.uk
www.m-ec.co.uk