Tritax Symmetry (Hinckley) Limited

HINCKLEY NATIONAL RAIL FREIGHT INTERCHANGE

The Hinckley National Rail Freight Interchange Development Consent Order

Project reference TR050007

Phase 1 Geo-Environmental Assessment Part 1 of 4

Report Prepared by: BWB Consulting Ltd

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Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 Regulation 5(2)(a)

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 Regulation 14

This document forms a part of the Environmental Statement for the Hinckley National Rail Freight Interchange project.

Tritax Symmetry (Hinckley) Limited (TSH) has applied to the Secretary of State for Transport for a Development Consent Order (DCO) for the Hinckley National Rail Freight Interchange (HNRFI).

To help inform the determination of the DCO application, TSH has undertaken an environmental impact assessment (EIA) of its proposals. EIA is a process that aims to improve the environmental design of a development proposal, and to provide the decision maker with sufficient information about the environmental effects of the project to make a decision.

The findings of an EIA are described in a written report known as an Environmental Statement (ES). An ES provides environmental information about the scheme, including a description of the development, its predicted environmental effects and the measures proposed to ameliorate any adverse effects.

This document was prepared by BWB in 2021 as part of the baseline gathering exercise for the HNRFI. Since this report was prepared amendments have been made to the defined Order Limits as a result design development. Having reviewed the content against the revised Order Limits as submitted in the DCO, the content remains applicable and as such this appendix is used to support the assessment in Chapter 15 and 16 (doc ref 6.1.15 and 6.1.16) of the ES.

Further details about the proposed Hinckley National Rail Freight Interchange are available on the project website:

http://www.hinckleynrfi.co.uk/

The DCO application and documents relating to the examination of the proposed development can be viewed on the Planning Inspectorate's National Infrastructure Planning website:

https://infrastructure.planninginspectorate.gov.uk/projects/east-midlands/hinckley-national-rail-freight-interchange/

DOCUMENT ISSUE RECORD

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P01	12/02/21	S0	Preliminary Issue	CR	TJH	RTR
P02	07/09/22	S2	Updated DCO boundary and Site Reconnaissance	CR	TJH	RTR
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Notice

All comments and proposals contained in this report, including any conclusions, are based on information available to BWB Consulting during investigations. The conclusions drawn by BWB Consulting could therefore differ if the information is found to be inaccurate or misleading. BWB Consulting accepts no liability should this be the case, nor if additional information exists or becomes available with respect to this scheme.

Except as otherwise requested by the client, BWB Consulting is not obliged to and disclaims any obligation to update the report for events taking place after: -

(i) The date on which this assessment was undertaken, and

(ii) The date on which the final report is delivered

BWB Consulting makes no representation whatsoever concerning the legal significance of its findings or the legal matters referred to in the following report.

All Environment Agency mapping data used under special license. Data is current as of June 2022 and is subject to change.

The information presented, and conclusions drawn, are based on statistical data and are for guidance purposes only. The study provides no guarantee against flooding of the study site

or elsewhere, nor of the absolute accuracy of water levels, flow rates and associated probabilities.

EXECUTIVE SUMMARY

The proposed scheme is to comprise a new strategic rail freight interchange on land east of Hinckley, in Blaby District, Leicestershire. The strategic rail freight interchange comprises a large multi-purpose freight interchange and distribution centre linked into both the rail and trunk road systems.

The site comprises an irregular shaped area of land covering c. 266 hectares, which is currently utilised for agricultural purposes, comprising fields and farm buildings, and includes sections of the local road and rail network.

Limited historical development has occurred at the site over the reviewed mapping period. Several farms have been present on site since pre 1880s, with streams and fields crossing the site. A railway station, electricity substation, tank, scrap yard, small brick works and two landfill sites have been recorded in the surrounding area.

Published geology indicates that the site is predominantly underlain by glacial deposits of the Thrussington Member and Bosworth Clay Member. Localised deposits of Alluvium and the Wolston Sand & Gravel are mapped at the site. Bedrock is indicated to comprise the Mercia Mudstone.

The Environment Agency (EA) classifies the Alluvium and the Wolston Sand and Gravel as Secondary A Aquifers, the Bosworth Clay Member as unproductive strata, the Thrussington Member as an undifferentiated Secondary Aquifer, and the Mercia Mudstone is categorised as a Secondary B Aquifer.

Preliminary third-party ground investigation data has been reviewed which largely confirms the published geology. Laboratory testing did not identify significant contamination. Ground gas monitoring data recorded low concentrations of ground gas, with one isolated location where elevated carbon dioxide was recorded.

A significant earthworks operation will be required at the site to create development plateaus, with retaining walls and slopes likely required to manage the change of levels. It is likely that the proposed buildings will require piled foundations or ground improvement to achieve adequate loading and settlement criteria.

The environmental risk assessment has identified a low risk to both human health and controlled water receptors in the context of a commercial development. This is based on the absence of significant contaminant sources, supported by the preliminary ground investigation data.

Further investigation works will be required to develop the preliminary conceptual site model and fully delineate the pollutant linkages and to inform mitigation measures and geotechnical earthworks design.

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1. INTRODUCTION

Instruction

1.1. BWB Consulting (BWB) was instructed by Tritax Symmetry (Hinckley) Ltd (the Client) to carry out a Phase 1 Geo-Environmental Assessment for the site at Hinckley Rail Freight Interchange, Hinckley.

1.2. The proposed scheme is anticipated to comprise a large industrial development with an associated railport, infrastructure, attenuation basins. An indicative proposed development masterplan at the time of writing is presented in **Appendix 1**.

Objectives

1.3. This report has been completed to present pertinent information into 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 BS 10175:2011+A2:2017 *'Investigation of potentially contaminated sites, code of practice'* and land contamination risk management guidance available through https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm.

1.4. The objectives of this report are to:

- Assess historical activities at the site with respect to their potential impact on the site environment;
- Characterise the environmental setting of the site, identify migration pathways and vulnerable receptors for contamination originating at the site, focusing on potential soil and groundwater liabilities;
- Assess historical and current surrounding land use in relation to known or potential off-site contamination issues that may impact the site;
- Review existing site investigation and remediation information for the site, where available; and
- Develop a preliminary Conceptual Site Model (CSM).

Previous Investigation Reports

1.5. The following third-party reports have been prepared for the site on which the Client has reliance and pertinent information from these reports will be referenced in this report.

- 'Preliminary Desk Study – Hinckley Strategic Rail Freight Interchange'; by Hydrock for db Symmetry Ltd; ref. 07700-HYD-XX-XX-RP-GE-1001-S2-P1; dated 16th April 2019;

- 'Preliminary Desk Study – Hinckley Strategic Rail Freight Interchange – A47 Link Road'; by Hydrock for db Symmetry Ltd; ref. 07700-HYD-XX-XX-RP-GE-1006-P1-S1; dated 12th June 2019; and

- 'Preliminary Ground Investigation Report – Hinckley Rail Freight Interchange'; by Hydrock for db Symmetry Ltd; ref. 07700-HYD-XX-XX-RP-GE-1002; dated 14th June 2019.

Scope of Work

1.6. The Scope of Work included a review of the following information:

- Groundsure report, reference GSIP-2021-10711-3797 (**Appendix 2**);

- Historical Ordnance Survey Mapping (**Appendix 3**);

- Historical aerial photographs (Google Earth) and other imagery (Groundsure Report);

- British Geological Survey (BGS) 1:50 000 Scale, '*Coventry'*, Sheet 169, Solid and Drift, (1994);

- BGS online geological maps and exploratory hole records (www.bgs.ac.uk);

- MAGIC website (www.natureonthemap.naturalengland.org.uk/magicmap);

- Coal Authority Interactive Map Viewer (http://mapapps2.bgs.ac.uk/coalauthority/home.html);

- Regional unexploded bomb risk maps.

1.7. A summary of the key hazards or uncertainties that require additional investigation in order to further characterise the associated risks; and

1.8. Production of a Geo-Environmental Assessment (this report), concluding in a qualitative assessment of the risks from contamination and ground-related constraints which may impact on the site.

2. THE SITE

Site Location

2.1. The site is located to the east of Hinckley, centred at National Grid Reference 446056, 294848. The approximate location of the site is shown below in **Figure 2-1.**

Figure 2-1: Site Location Plan

Site Description

2.2. The site comprises an irregular shaped plot of land which is currently utilised for agricultural purposes, comprising fields and farm buildings, and includes sections

of the local road and rail network. The site covers approximately 266 hectares.

2.3. The topography is variable with elevation ranging between c. 83.5m above ordnance datum (AOD) in the north to c. 110m AOD at the motorway roundabout in the south, with levels of c. 93m AOD in the west of the site, c. 91m AOD in the east and c. 100m AOD in the centre of the site. The topography generally increases in elevation from north east to south west, with a slight ridge feature through the centre of the site orientated broadly in a south west to north east direction.

2.4. For the purposes of this section, the site has been split into three sections; Area 1 comprising the central site area, Area 2 comprising the arm to the north west, and Area 3 consisting of the southern extension along the road networks. The Areas are set out on **Drawing 1**. A walkover was conducted by BWB on 9 August 2022 to compliment previous investigations conducted by Hydrock in 2018 and 2019.

Area 1 – Main Site Area

2.5. Area 1 comprised a large area of agricultural land, with Woodhouse Farm at the centre. The farm complex comprised several residential premises, agricultural outbuildings and barns, and small commercial premises including a farm shop and vehicle repair shop. Three oil tanks, a diesel tank and a propane tank were noted on site during the Hydrock site walkover, with several corrugated roofs indicated to have been constructed from potentially asbestos containing materials (ACMs).

2.6. A small property utilised for kennelling services was located to the north west of Woodhouse Farm. Hobbs Hayes Farm was located to the south of Woodhouse Farm, with additional farm buildings, labelled Freeholt Lodge, located towards the southern extent of Area 1. Two tanks were identified at Hobbs Hayes Farm during the Hydrock walkover utilised for diesel and heating oil storage. ACMs were tentatively identified in four barn rooves. Freeholt Lodge appeared to be disused with static caravans, tanks, and abandoned vehicles noted. A propane tank was noted, and ACMs also identified.

2.7. Burbage Common Road runs through Area 1 from the west, passed Woodhouse Farm, before joining Stanton Road at the north east boundary. At the north western boundary Burbage Common Road crosses a bridge over the railway line. Smaller tracks also crossed Area 1 to the south west of Woodhouse Farm and to the south away from Hobbs Hayes Farm.

2.8. Drainage ditches ran along most field boundaries, with several small ponds located at various points around the field boundaries. A small stream flowed across the south of Area 1.

2.9. Area 1 was bound to the south east by the M69 and to the north west by a railway line. To the south west of site were three wooded areas known as Burbage Wood, Aston Firs and Freeholt Wood, with a gypsy and traveller site and private mobile

home site and agricultural land beyond. Burbage Common and Woods was located to the west. Sporadic farm buildings and residential premises were located to the north of Area 1, mainly along Station and Stanton Road.

Area 2 – North Western Arm A47 Link road and Amenity Open Space

2.10. Area 2 comprised a strip of land to the north west of Area 1, extending from the railway line to the B4668 (Leicester Road). Burbage Common was located to the south, with Burbage Common Road also crossing this location. The rest of the site was occupied by fields, with a small densely vegetated stream crossing the north of Area 2 and a drain crossing the central area. Small farm outbuildings were present in some of the north western fields.

2.11. The site was bound by the railway line to the south east and Leicester Road to the north west. Immediately west of the site were agricultural fields and Burbage Common, whilst fields and Bride Farm were located to the east. A sports club was located to the north west of Leicester Road.

Area 3 – Southern Arm M69 Junction Improvements

2.12. Area 3 largely covers the road network around Junction 2 of the M69. Junction 2 provides access/egress to the northbound M69, but not the southbound carriageways. The entry/exit ramps lead up to a raised roundabout over the M69 which involved two bridge crossings. Hinckley Road (B4669) joins the roundabout orientated in a west to east direction.

2.13. The boundary of Area 3 covers the roundabout, the northern slip roads, the access points to Hinckley Road, and extends to the south west beyond the point where Aston Lane crosses over the M69. The north eastern extent to Area 3 incorporates a small bridge which provides access for pedestrians and farm vehicles to cross the M69.

2.14. The M69 increases in topography from north east to south west from c. 93m AOD to c. 100m AOD and was predominantly raised above site levels.

2.15. A small stream was culverted under the M69 towards the south of the Area 3. Also, a pond was located immediately west of the M69 which appears to have been constructed at the same time as the road and is likely to be an attenuation basin as part of the drainage network.

2.16. The surrounding land use was predominantly agricultural, with a traveller site and private mobile home site located to the north west of Junction 2 and Averley House Farm to the north east.

3. PREVIOUS INVESTIGATIONS

3.1. The following information provides a summary of information reviewed in relation to previous assessments completed for the site:

Available Information

3.2. Pertinent information from the following reports are summarised below:

- 'Preliminary Desk Study – Hinckley Strategic Rail Freight Interchange'; by Hydrock for db Symmetry Ltd; ref. 07700-HYD-XX-XX-RP-GE-1001-S2-P1; dated 16th April 2019;
- 'Preliminary Desk Study – Hinckley Strategic Rail Freight Interchange – A47 Link Road'; by Hydrock for db Symmetry Ltd; ref. 07700-HYD-XX-XX-RP-GE-1006-P1-S1; dated 12th June 2019; and
- 'Preliminary Ground Investigation Report – Hinckley Rail Freight Interchange'; by Hydrock for db Symmetry Ltd; ref. 07700-HYD-XX-XX-RP-GE-1002; dated 14th June 2019.

Preliminary Desk Study – Hydrock, April 2019

3.3. The desk study was conducted for a similar site boundary as this assessment, however, it did not include Area 2 to the north west of site.

3.4. The report summarised the findings of a site reconnaissance visit and presented the findings of a desktop research. The information is broadly similar to that contained within this report and so is not repeated here.

3.5. The report concluded that the overall risk from land contamination at the site was considered to be low for the proposed commercial development given that it would be covered by hard standing/ buildings which would limit the possibility of contact with the soils, as well as reduce the risk of significant rainwater infiltration leading to leaching.

Preliminary Desk Study – A47 Link Road – Hydrock, June 2019

3.1. The desk study was conducted for an area approximately covering the proposed A47 Link road corridor. It did not cover the area of the proposed amenity land southwest of the road.

3.2. The report summarised the findings of a site reconnaissance visit and presented the findings of a desktop research. The information is broadly similar to that contained within this report and so is not repeated here.

3.3. The report concluded that the overall risk from land contamination at the site was considered to be low for the proposed road given that it would be covered by hard standing which would limit the possibility of contact with the soils, as well as reduce the risk of significant rainwater infiltration leading to leaching.

Preliminary Ground Investigation Report - Hydrock, June 2019

3.4. The ground investigation report comprised a preliminary ground investigation, which was aimed at refining the conceptual site model presented within the Preliminary Desk Study, provided an indication of the general geo-environmental and geotechnical site conditions, to identify key contamination risks and identify mitigation requirements likely to be required to enable development and to provide initial geotechnical recommendations for design.

3.5. The ground investigation works comprised the advancement of 20 trial pits to a maximum depth of 4.10m, 42 windowless sampler boreholes to a maximum depth of 5.45m, and 16 hand pits to a maximum depth of 1.20m.

3.6. Chemical testing of soils comprised 44 suites of common contaminants, 8 petroleum hydrocarbon and BTEX and 1 asbestos quantification. Chemical analyses of groundwater comprised 8 suites of common contaminants and 2 petroleum hydrocarbon tests. Geotechnical testing comprised 35 moisture content tests, 42 Atterberg tests, 10 PSDs, 10 CBR tests, 16 BRE suites and 5 compaction tests.

3.7. Ground conditions recorded localised Made Ground to depths of between 0.15m and >1.2m, mainly found localised around the farm buildings. Topsoil was recorded across the site to depths of between 0.20m and 0.50m, reducing to 0.05 – 0.10m near to developed areas. Alluvium was recorded in three locations, near to the stream running through Area 1, comprising a sandy gravelly clay with a thickness of up to 0.50m.

3.8. The Bosworth Clay Formation was recorded as sandy/silty clay or clayey silty sand to depths of 1.80 – 4.70m, however, the full extent was not proven in some locations. Bosworth Clay was found across much of Area 1, excluding the central areas, and across the south of Area 3. The Thrussington Member was encountered as firm to stiff sandy and/ or gravelly clays proven to depths of between 1.90m and 5.00m, with the base not proven in some location. Thrussington Member was recorded predominantly in the centre of Area 1 and across the northern parts of Area 3.

3.9. Mercia Mudstone was recorded under the Glacial Deposits (Thrussington Member and Bosworth Clay) at depths ranging between 1.90m and 5.00m, the strata was encountered as gravelly clayey sand and slightly gravelly, sandy silty clay with frequent lithorelicts. The depth to the Mercia Mudstone was not proven in the west

of Area 1 or within Area 3.

3.10. No visual or olfactory evidence of contamination was observed.

3.11. Groundwater strikes were recorded in four locations; two in the Thrussington Member and two in the Mercia Mudstone, at depths ranging between 3.10m and 3.90m below ground level (bgl). During the post investigation monitoring, groundwater was recorded at 18 locations within the Bosworth Clay, Thrussington Member and Mercia Mudstone, at depths ranging from 0.44m to 4.68m. Some of the shallower groundwater levels were considered to be influenced by nearby drains or brooks.

3.12. Six ground gas monitoring visits were undertaken, with methane concentrations recorded to a maximum of 0.1%v/v and carbon dioxide at <0.1 – 6.0%v/v, however, positive flow rates were not recorded above limits of detection (<0.01l/hr).

3.13. BRE SD1 analysis indicated DS-1 AC1 conditions at the site, increased to DS-2 AC2 where groundwater is encountered.

3.14. The standard suite of contaminant testing did not record any contaminant exceedances when compared to commercial screening criteria for human health. Laboratory analysis recorded asbestos in 1 of 43 samples, located near to Woodhouse Farm, however, the quantification was <0.001%. Hydrocarbons and VOCs were recorded below the screening criteria. However, fuel tanks could not be targeted due to access constraints.

3.15. Marginally elevated localised boron and zinc concentrations in shallow soils exceeded the screening criteria for plant life. Given the marginal and isolated nature of the exceedance, it was not considered to represent a significant risk to plant life.

3.16. Hydrocarbons were not recorded in the two groundwater samples tested. Marginal exceedances of chromium, copper, manganese, nickel, and zinc were recorded. However, based on the lack of an identified source and the low nature of the concentrations, the assessment did not consider that they represented a risk to controlled waters.

3.17. The ground gas risk assessment recorded carbon dioxide above 5% in one location (adjacent to Woodhouse Farm) on three of six visits. The assessment suggested that without further assessment, the area around Woodhouse Farm should be considered a CS2 area whereby gas protection measures would be required. BWB note that the log for WS11 is not included within the investigation report to further assess the potential cause for the elevated gas readings. However, based on the lack of positive flow and the isolated nature of the reading, the CS2 classification may be slightly overcautious.

3.18. The report concluded that the site did not pose a significant risk to human health or controlled waters. The report stresses the preliminary nature of the ground investigation and that certain potential sources could not be investigated due to access constraints.

3.19. Excavated soils are likely to be classified as non-hazardous, however, some soils around farm units have been classed as hazardous based on elevated hydrocarbons.

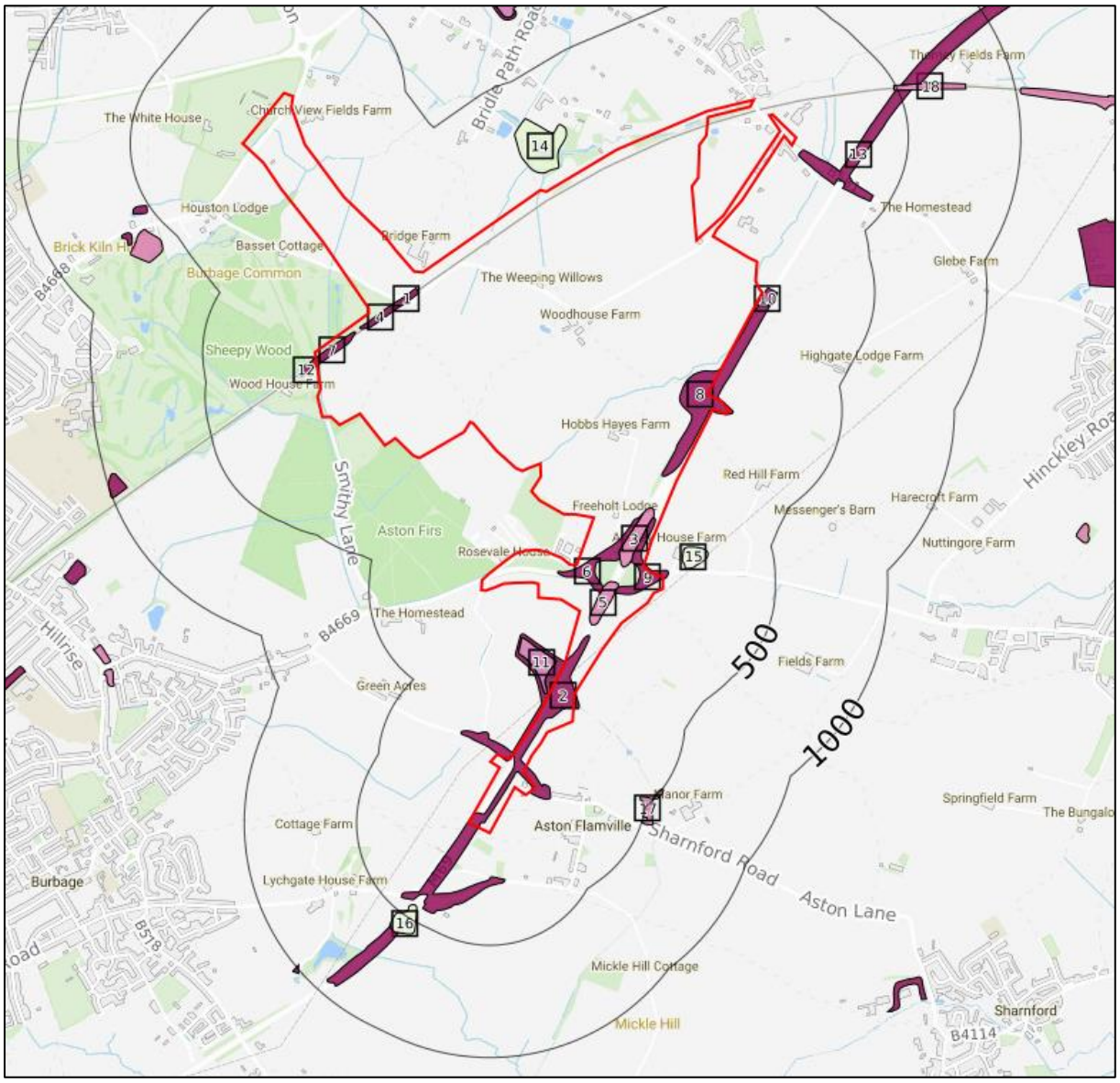
4. ANTICIPATED GROUND CONDITIONS

Geology

Superficial Deposits

4.1. Information published by the BGS has mapped localised Made Ground at the site. Made Ground is mapped along the M69 corridor and partially along the railway line, indicating areas which have been artificially raised (**Figure 4:1**). The lighter pink areas indicated areas of cut where the M69 passes under the roundabout, and the attenuation basin located to the west of Area 3.

Figure 4-1: BGS Made Ground Plan

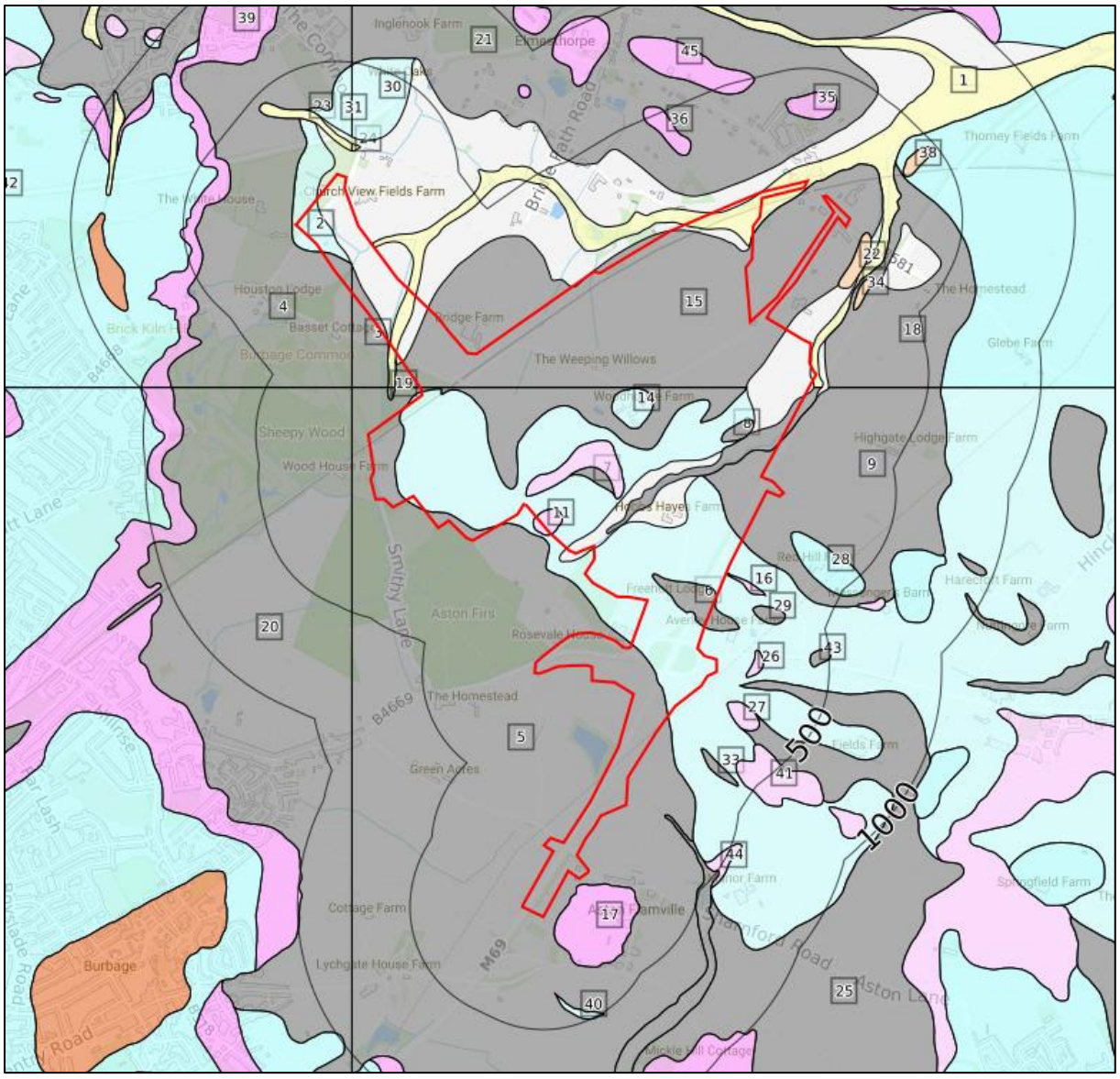


4.2. The BGS data has recorded several superficial deposit units across the site, and also some areas where superficial deposits are absent, as presented in **Figure 4:2**.

4.3. The Bosworth Clay Member, also known as Wolston Clay, (shaded grey on **Figure 4:2**) and Thrussington Member (shaded light blue on **Figure 4:2**) are mapped underlying most of the site, with the latter present towards to the south and south east of Area 1. The Bosworth Clay Member is typically encountered as variable grey and red-brown clays and silt, often without gravels, whilst the Thrussington Member is encountered as brown to reddish brown usually sandy silty clay with gravels present.

Figure 3 - BGS Superficial Deposits Plan

Figure 4-2: BGS Superficial Deposits Plan



4.4. Deposits of the Wolston Sand & Gravel Member, also referenced as Glaciofluvial Deposits, are mapped in two locations in the centre of Area 1 (shaded pink on **Figure 4:2**). These are younger deposits commonly encountered as yellow or red sand and gravel.

4.5. Localised Alluvium is mapped in the north and north east of Area 1 along the line of the stream and also along the watercourses in Area 2.

4.6. Superficial deposits are locally absent in the south east and east of Area 1, and across much of Area 2.

Bedrock Deposits

4.7. The bedrock underlying the site is indicated to comprise the Edwalton Member Mercia Mudstone. Mercia Mudstone is commonly encountered as red, or occasionally green-grey, mudstones and subordinate siltstones. The bedrock contains thick halite-bearing units in some basinal areas and thin beds of gypsum/anhydrite are widespread.

BGS Boreholes Logs

4.8. Multiple boreholes are located to the east of site. along the line of the M69, with occasional boreholes located to the north and west. A summary of the ground conditions recorded in selected boreholes is presented below, however, it should be note that these logs date from 1971, prior to the construction of the M69 where levels will have been altered.

- SP49SE15 - Topsoil recorded to 0.20m, over stiff brown fissured silty clay recorded to 4.3m; over stiff red/brown marly boulder clay to a depth of 5.4m; over stiff brown fissured silty clay to a depth of >8.0m. No groundwater strikes recorded.

- SP49SE44 - Topsoil recorded to 0.50; over firm brown fissured clay to 3.0m; over hard brown marly boulder clay to 5.5m; over hard red and grey sandy clay to >12.5m, with cemented bands from 10.0m. Groundwater strike recorded at 10.0m.

- SP49SE45 - Topsoil recorded to 0.45m; over stiff brown fissured silty sandy clay to 3.0m; over very stiff brown fissured clay 5.1m; over very stiff red sandy clay to 8.0m; over hard red and grey sandy clay with cemented bands to >12.0m. Groundwater seepage recorded at 8.0m.

- SP49SE41 - Topsoil to 0.3m over stiff brown fissured boulder clay to >9.0m. Groundwater not encountered.

- SP49SE13 - Topsoil to 0.4m over firm red and grey mottled silty sandy clay to a depth of 5.2m; over stiff brown fissured silty clay to 6.5m; over stiff red/brown marly boulder clay to >9.0m. Groundwater strike recorded at 4.9m.

- SP49SE58 and SP49SE1 – Two boreholes drilled in the 1870s while prospecting for coal. Ground conditions were indicated to comprise c.3m of boulder clay over Mercia Mudstone to c. 40m; the Bromsgrove Sandstone to c. 140m.

- SP49SE40 - Topsoil to 0.3m over red brown sandy clay to 3.45m over red brown silty slightly clayey sand to 7.9m; over stiff brown fissured silty clay to >9.0m. Groundwater strike recorded at 3.9m.

- SP49SE37 - Topsoil to 0.3m over firm red brown marly boulder clay to 0.38m; over firm/stiff red-brown sandy marly clay with hard bands to 15.0m; over hard brown boulder clay to 20.4m. Groundwater strike recorded at 3.9m.

- SP49SE11 - Topsoil to 0.4m over stiff red to brown marly clay to 1.9m; over stiff red sandy clay to 3.2m; over stiff red/brown marly boulder clay to 4.4m; over stiff red sandy clay to 17.7m; over stiff/hard brown/grey boulder clay to 19m; over stiff brown fissured silty clay to 22.9m; over hard red to brown marly boulder clay to a depth of >24.0m. Groundwater strike recorded at 5.7m.

- SP49SE35 - Topsoil to 0.3m; over stiff brown fissured silty clay to 1.5m; over hard red/brown marly boulder clay to a depth of 13.25m; over red brown sand with veins of clay to 14.35m; over gravel with sand and bands of clay to 18.21m; over firm red brown bounder clay to 18.6m; over stiff brown silty sandy clay to >20.0m. Groundwater strike recorded at 14.55m.

- SP49SE33 - Topsoil to 0.3m; over firm brown sandy clay to 2.7m; over stiff brown fissured boulder clay to 12.45m; over hard red to brown marly boulder clay to >17.4m. Groundwater seepage recorded at 12.9m.

- SP49SE9 - Topsoil to 0.2m; over stiff brown silty clay to 2.2m; over stiff brown fissured silty clay to 3.4m; over stiff red/brown silty boulder clay to 5.8m; over stiff red/ brown boulder clay to 7.6m; over brown silty sand to a depth of 7.9m; over stiff brown boulder clay to 8.1m; over firm red/brown sandy clay to 12.7m; over stiff red/brown occasionally laminated marly boulder clay to >16.5m. Groundwater strike recorded at 5.8m.

- SP49SE30 - Topsoil to of 0.3m; over stiff brown/grey sandy clay to 0.38m; over stiff brown fissured boulder clay to 4.95m; over stiff/hard brown/ grey fissured boulder clay to 6.2m; over brown silty sand to 9.15m; over brown gravel and silty sand to 13.5m; over hard brown boulder clay to >16.0m. Groundwater strike recorded at 6.2m.

- SP49SE26 - Topsoil to 0.3m; over firm brown sandy clay to a depth of 0.9m; over stiff red/brown marly boulder clay to 3.45m; over brown clayey silty sand to 6.95m; over stiff red/ brown marly boulder clay to 9.45m; over red and grey sandy clay to >16.0m. Groundwater strike recorded at 9.45m.

- SP49NE125 – (located to north west of site) Topsoil/hardcore to 0.4m; over firm brown silty clay with occasional hard brown mudstone to 6.4m; over light grey clay with light grey mudstone to 8.2m; over firm grey clay with mudstone bands to 11.35m; over mudstone with subordinate sandstone and siltstones to 109.5m. Small groundwater strike recorded at 10.5m and large groundwater strike recorded at 103m.

4.9. The BGS boreholes indicates that varying depths of glacial deposits are present overlying the Mercia Mudstone. The glacial deposits appear to be predominantly cohesive with localised granular pockets.

Third Party Investigation Logs

4.10. The preliminary ground investigation conducted by Hydrock and reviewed in Section 3 generally confirmed the published geological sequences, with Bosworth Clay was found across much of Area 1 (excluding the central areas) and across the south of Area 3, and the Thrussington Member was recorded predominantly in the centre of Area 1 and across the northern parts of Area 3.

4.11. Limited Made Ground was encountered, predominantly around the farm complexes.

4.12. Localised Alluvium was recorded near to the watercourse flowing through Area 1. The Wolston Sand & Gravel Member was not recorded. Mercia Mudstone was recorded under the Glacial Deposits in the eastern areas, but not to the west of Area 1 of in Area 3.

Hydrogeology

Aquifer Designation

4.13. The Environment Agency (EA) classifies the Alluvium and the Wolston Sand and Gravel as Secondary A Aquifers. Secondary A Aquifers are 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.

4.14. The Bosworth Clay Member is an unproductive stratum, defined as rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

4.15. The Thrussington Member is an undifferentiated Secondary Aquifer which has been assigned in cases where it has not been possible to attribute either a Secondary A or B category to a rock type.

4.16. The Mercia Mudstone is categorised as a Secondary B Aquifer which are defined as predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons, and weathering.

4.17. The site is not located within an EA designated Source Protection Zone. The site lies within the Soar Secondary Combined Water Framework Directive Groundwater Body which recorded a good chemical and overall rating in 2015.

BGS Borehole Data

4.18. The BGS boreholes recorded groundwater strikes in most locations, but at varying depths. Groundwater was recorded either within granular bands/horizons, or above hard strata. Ingress rates were recorded as normal strikes and seepages.

Third Party Ground Investigation Data

4.19. The third-party ground investigation recorded minimal groundwater strikes but recorded standing groundwater in most wells during the monitoring. This is quite common in glacial deposits where groundwater within a clay aquiclude can seep into and accumulate in boreholes.

Abstractions, Discharge Consents and Pollution Incidents

4.20. A historical groundwater abstraction for spray irrigation is recorded at the sports ground adjacent to the north west boundary of Area 2. The consent expired in 2013. There are no active abstraction licenses listed within 2km of the site.

4.21. There are no discharge consents listed as issuing to groundwater at the site or in the surrounding area.

4.22. A significant pollution incident is listed 130m west of Area 2 where construction and demolition materials and wastes impacted upon the land. This is unlikely to represent a risk to groundwater quality at the site.

Groundwater Flooding

4.23. The site is located within an Area with a low to negligible risk of flooding.

Surface Waters

Surface Water Features

4.24. Within Area 1, drainage ditches run along most field boundaries, with several small ponds located at various points around the field boundaries. A small stream flows across the south of Area 1, and two small streams are present in the north of Area 1, flowing off site to the north.

4.25. Within Area 2, three small watercourses cross the site, with the southernmost appearing to have been channelised.

4.26. Within Area 3, a small drain is culverted under the M69.

Abstractions, Discharge Consents and Pollution Incidents

4.27. Woodhouse Farm has a discharge consent to allow sewage discharges to flow into a tributary of Thurlaston Brook. There are eleven off site discharge consents relating to sewage discharges and surface water runoff feeding into the local drainage or tributaries within 500m of the site.

4.28. There are no active abstraction licenses listed within 2km of the site.

4.29. Two minor pollution incidents are listed as impacting upon surface waters located 270m and 310m south west of Area 2, relating to firefighting runoff and mixed/waste oils.

Flooding

4.30. The north easternmost tip of Area 1 and a small central section of Area 2 is indicated to lie within a Zone 2 and 3 flood zone.

Ground Gas and Radon

4.31. The localised Made Ground and Alluvium mapped across the site represent a possible source of ground gas, however, these materials are likely to be relocated if present under proposed building footprints.

4.32. Third party ground gas monitoring has indicated generally low concentrations across much of the site, however, localised elevated carbon dioxide was recorded at one location. The assessment suggested that a CS2 classification would be appropriate around Woodhouse Farm where the carbon dioxide was encountered.

4.33. The site is located in an area where less than 1% of properties are affected by Radon. Radon protective measures are not required as part of the proposed development.

Mineral Extraction

4.34. The site is not located within an area associated with coal mining.

4.35. Small clay pits have been recorded off site to the west of Area 2 and east of Area 3, however, no records indicate workings on site.

4.36. The Groundsure Report references numerous cuttings observed from historical mapping, relating to localised area of the M69 and railway line.

Environmental Sensitivity

4.37. Burbage Wood and Aston Firs located immediately south west of Area 1 are both designated as a Site of Special Scientific Interest (SSSI).

4.38. Burbage Common & Woods located west of Area 1 and 2, and partially within the south west corner of Area 2 is designated as a Local Nature Reserve (LNR).

4.39. Aston Firs, Freeholt Wood and Sheepy Wood are all designated as Ancient Woodlands.

5. SITE HISTORY

5.1. Historical Ordnance Survey (OS) mapping for the site area has been reviewed. These maps and plans date from 1886 to 2014. The historical plans reviewed are provided in **Appendix 3**. The key points of the historical development of the site and surrounding area are summarised in **Table 5-1**. All distances quoted are approximate.

Table 5-1: Summary of Historical Mapping

Dates	On Site	Off-Site
1886 – 1938	The earliest site plans show the site as largely undeveloped, agricultural land, relatively similar to present day. **WOODHOUSE FARM** is present in the centre of the site with **HOBBS HAYES FARM** to the south. The **RAILWAY LINE** is mapped in the north west of the site. Numerous small ***ponds*** are mapped across the site with small ***streams*** mapped in the north, central and south of site along the same course as present day.	**ELMESTHORPE RAILWAY STATION** is mapped immediately north east of Area 1, with several **SIDINGS**. ***Old fish ponds*** are mapped c. 100m north of site and indicated to be excavations. A **BRICK WORKS** with associated **KILNS** are mapped adjacent to Hinckley Road immediately south east of Area 3, and also approximately 500m west of Area 1. Small scale associated clay pits are also indicated at the brick works. A rifle range is present immediately west of Area 2. ***Burbage Common***, ***Sheepy Wood***, ***Burbage Wood***, ***Aston Firs***, and ***Freeholt Wood*** are all located immediately west of Area 1 and 2. Both brick yards appear to be disused from 1901 plans, with the south eastern clay pit indicated to have been reduced to a small pond by 1963.
1950 - 1968	1963 plans show the B4669 (labelled as A5070) Hinckley Road as realigned. 1962 plans label the track to Woodhouse Farm as Burbage Common Road for the first time.	Residential development is mapped along Station Road 200-600m north east of Area 1. A **TANK** is indicated at the railway station from 1962 plans with a **FACTORY** mapped 200m north east of site.

Dates	On Site	Off-Site
		A **GARAGE** is mapped 400m south west of Area 3 on 1963 plans.
1977 - 1994	No significant changes noted.	The **M69** and associated access bridges have been constructed. Hinckley Road in the south of Area 3 is realigned as part of the M69 works, and the attenuation pond is constructed. Elmesthorpe Railway Station and sidings are no longer mapped from 1983 plans. The buildings remain, but the tank is no longer labelled. 1984 plans show an **ELECTRICITY SUBSTATION** mapped 200m north of site. 1994 plans indicate the former railway sidings site is occupied by a **SCRAP YARD**.
2002 – Present day	No significant changes noted.	The sports ground to the north west of Area 2 has been developed by 2002 plans. The eastern traveller site appears on mapping from 2002 with the western site mapped from 2010.
Potential **SOURCES** in bold and caps. Potential **R*eceptors*** in bold and italics.		

Historical Aerial Photography and Imagery

5.2. Aerial photographs/imagery available through Google Earth and included within the Groundsure report show the site in the same layout as present day.

Operational / Company Records

5.3. No operational records have been made available for review as part of this assessment.

Planning History

5.4. The Hinckley and Bosworth Borough Council Planning Portal and the Blaby District Council Planning Portal was accessed on 20th January 2021.

5.5. No pertinent environmental information was available for review on the site or surrounding area.

6. REGULATORY SETTING

Stakeholder Consultation

6.1. The following regulatory bodies have been contacted to ascertain whether they hold any records which may be pertinent to the environmental risk assessment:

- Blaby District Council
- Leicestershire County Council
- Hinckley and Bosworth Borough Council
- Environment Agency
- Highways England
- Forestry Commission
- DEFRA
- North Warwickshire Borough Council
- Nuneaton and Bedworth Borough Council
- Burbage Parish Council
- Elmesthorpe Parish Council
- Historic England

6.2. The following responses were received.

Table 6-1: Regulatory Correspondence

Stakeholder	Summary of Response
Environment Agency	No response received
National Highways	Noted that the NH hold ground conditions information on the M69. HD622 geotechnical reporting will be required for geotechnical design of highway improvements

Stakeholder	Summary of Response
Forestry Commission	No response received
DEFRA	No response received
Historic England	No specific information held
Blaby District Council	Noted historic land uses and current land uses such as railway activities, fuel storage on existing farms and made ground which is associated with development of M69 and associated bridges.
Leicestershire County Council	Searches confirmed no significant issues with respect to contaminated land associated with the site.
Hinckley and Bosworth Borough Council	Noted that Burbage Common is identified as an area of interest due to historical use a as a rifle range between 1885 and 1931. Burbage common is now not contained within the Main Order Limits boundary.
Burbage Parish Council	No additional requirements above those set out in the scoping report
Elmesthorpe Parish Council	No response received

Permits Consents and Authorisations

6.3. A full listing of permits, consents and authorisations including discharge consents, pollution incidences and other environmental information, is included in the Groundsure report, presented in **Appendix 2**.

6.4. No significant features have been identified which are considered likely to have had a detrimental impact on the site.

Landfilling and Waste Management

6.5. A full listing of EA, BGS and Local Authority recorded landfills are provided in the Groundsure report presented in **Appendix 2**.

6.6. Two historical EA landfill sites are located 190m and 235m south east of Area 3. The closest was indicated to have received inert and industrial waste between 1989 and 1990, whilst the other site was indicated to have received inert, industrial,

commercial, and household waste between 1935 and 1960.

6.7. A 2013 planning application was submitted relating to the Hinckley Golf Club, 70m west of Area 1, to raise levels using inert material. No objections were raised, but further details were required, and it appears that the application did not progress further.

6.8. Multiple waste exemptions are listed on site as summarised in **Table 2**.

Table 6-2: On Site Waste Exemptions

Location	Category	Description
Bridge Farm	Storing waste exemption	- Storage of slurry
Hobbs Hayes Farm	Disposing of waste	- Deposit of waste from dredging of inland waters - Burning waste in the open
	Storing waste exemption	- Storage of waste in a secure place
	Treating waste exemption	- Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising - Preparatory treatments (baling, sorting, shredding etc)
	Using waste exemption	- Burning of waste as a fuel in a small appliance - Spreading waste on agricultural land to confer benefit - Use of waste in construction
Woodhouse Farm	Disposing of waste	- Deposit of agricultural waste consisting of plant tissue under a Plant Health notice - Depositing samples of waste for the purposes of testing or analysing them - Disposal by incineration - Burning waste in the open - Burning waste at a port under a Plant Health notice
	Storing waste exemption	- Storage of waste in a secure place - Storage of slurry

Location	Category	Description
	Using waste exemption	- Spreading waste on agricultural land to confer benefit - Use of waste in construction - Use of mulch - Spreading of plant matter to confer benefit - Incorporation of ash into soil - Pig and poultry ash - Use of waste for a specified purpose

6.9. The waste activities listed in **Table 6:1** could possibly lead to the degradation of soil quality, particularly activities such as burning waste and incorporation of ash into soil.

6.10. The historical landfill sites are considered to be too far away from the proposed buildings to represent a ground gas risk. The polygons are relatively small and the likelihood of landfill leachate impacting on the local groundwater quality is likely to be minimised by the cohesive natural soils in this area.

Environmentally Designated Sites

6.11. Burbage Wood and Aston Firs SSSI is located to the south of the site and is a designated Ancient Woodland. Burbage Common & Woods Local Nature Reserve is is also located west of the site. Aston Firs, Freeholt Wood and Sheepy Wood Ancient Woodlands are located south, south and west of the site.

7. GEOTECHNICAL APPRAISAL

7.1. The Groundsure report, site history, current site setting and geology setting have all been considered in order to provide an indication of the potential ground related constraints and opportunities in the context of the proposed development as set out in **Table 3**.

Table 7-1: Ground Related Constraints & Opportunities

Potential Constraint / Opportunity	Explanation	Potential Mitigation Options
Topsoil	The preliminary GI indicated that Topsoil is present across most of the site.	A volume of topsoil will be required for soft landscaping areas in the proposed development. Further testing will be required to assess suitability for reuse in other developments.
Preliminary Foundation Solution	It is likely that a significant earthworks operation will be required at the site to create development plateaus. It is likely that the proposed buildings will require piled foundations or ground improvement to achieve adequate loading and settlement criteria.	Ground investigation should be undertaken to confirm ground conditions at the site to inform detailed design. Made Ground, Alluvium and/or materials with high organic content to be relocated away from proposed building footprints.
Buried Obstructions	Limited buried obstructions are likely to be present across the site given the lack of development across the area.	Buried obstructions such as building foundations should be removed during the demolition works.
Shrink/Swell Clay	The Groundsure report indicates that the Alluvium and the outcropping Mercia Mudstone are typically low plasticity and represent a very low shrink/swell risk. The Glacial deposits across	Plasticity of soils to be assessed as part of ground investigation. Foundations will need to consider potential for heave where located near to trees.

Potential Constraint / Opportunity	Explanation	Potential Mitigation Options
	the rest of the site are indicated to have medium plasticity (low risk).	
Running Sands	The majority of soils across the site are indicated to have a negligible or very low risk of running sands, however, the Alluvium is indicated to have a low risk of running sands.	The risk associated with running sands should be considered during detailed design stage. To date, the Alluvium has been found as cohesive, and running sands are not likely to represent an issue.
Compressible Deposits	The Bosworth Clay and Alluvium are indicated to have a moderate compressibility risk, with the other strata indicated to have a negligible risk.	The risk associated with compressible deposits should be assessed during detailed design stage.
Collapsible Deposits	The site is indicated to have a very low/ negligible collapsible deposit risk.	N/A
Landslides	The site is indicated to have a very low risk of landslides, increased to low in a localised area around Junction 2 of the M69.	Slope stability assessments will be required to assess the potential for landslides to occur where slopes/cuttings form part of the proposed development plans.
Ground Dissolution of Soluble Rocks	Negligible risk recorded across the site.	N/A
Trees	Trees are present along field boundaries and watercourses, with woodland located immediately west of site.	Foundations in close proximity to new or existing trees may need to be locally deepened beyond the zone of influence of tree roots and/or heave precautions adopted.
Pyritic Geology	The Mercia Mudstone is indicated to be pyritic.	Preliminary investigation works indicated DS-1 AC1 conditions present at the site, increased to

Potential Constraint / Opportunity	Explanation	Potential Mitigation Options
		DS-2 AC2 where groundwater is encountered.
Retaining Walls	Retaining walls will be required as part of the proposed development	Retaining walls will need to be designed based on site specific data.
Drainage and Soakaways	Based on the cohesive nature of the majority of the soils across the site, infiltration-based drainage is unlikely to be viable.	Infiltration testing in accordance with current guidance would be required to inform the permeability of the soils to inform drainage design.
Roads and Pavements	California Bearing Ratio (CBR) values should be sought for road, car park and pavement design.	Preliminary third-party investigation suggest that a CBR of 3% is adopted for all soils excluding alluvium where <2.5% is recommended.
UXO	Review of the unexploded ordnance risk maps available online indicates the site to be in an area of low risk from UXO.	No further assessment required.

8. PRELIMINARY ENVIRONMENTAL RISK ASSESSMENT

Introduction

8.1. The risk posed by any contaminants in soil or groundwater will depend on the nature of the hazard, the probability of exposure, the pathway by which exposure occurs, and the likely effects on the receptors. A contaminant is defined as a substance that has the potential to cause harm, while a risk is considered to exist if such a substance is present in sufficient concentration to cause harm and a pathway exists for a receptor to be exposed to the substance.

8.2. Three impact potentials exist for any given site, all of which need to be considered in a risk assessment, which are:

- The site impacting upon itself;
- The site impacting on its surroundings; and
- The surroundings impacting on the site.

8.3. The following sections discuss all the identified potential on and off-site sources, pathways and receptors in the context of the proposed development and plausible pollutant linkages which may represent a risk to identified receptors such as human health and/or controlled waters from the data gained from the desk study.

8.4. The assessment is qualitative and aimed to determine all likely pollutant linkages, with consideration of significance and allowing for uncertainties.

8.5. **Sources (S):** These are potential or known sources of contamination that may relate to a former land use or present site feature or process (e.g. fuel storage tanks).

8.6. **Pathways (P):** A pathway is defined as a mechanism or route by which a contaminant comes into contact with, or otherwise affects a receptor. Pathways by which the identified receptors may be impacted upon in the context of the proposed development.

8.7. **Receptors (R):** Receptors are defined as people, living organisms, ecological systems, controlled waters, atmosphere, structures and utilities that could be adversely affected by contaminant(s).

Conceptual Site Model - Sources

Area 1

8.8. The following potential sources of contamination have been identified at the site:

- Made Ground at the site but predominantly located around farm complexes could contain heavy metals, hydrocarbons, asbestos and a potential source of hazardous ground gasses.
- Asbestos within shallow soils around farm buildings;
- Hydrocarbons, lubricants and solvents located around tanks;
- Pesticides and herbicides within fields and along railway lines and in storage areas within farm complex;
- Organic rich Alluvium could represent a potential source of hazardous ground gasses.
- Biological contamination associated with cess pit (e.g. e-coli)

Area 2

- Made Ground at the site but predominantly located around farm buildings could contain heavy metals, hydrocarbons, asbestos and a potential source of hazardous ground gasses.
- Asbestos within shallow soils around farm buildings;
- Pesticides and herbicides within fields and along railway lines and in storage areas within farm complex;
- Organic rich Alluvium could represent a potential source of hazardous ground gasses.

Area 3

- Made Ground at the site related to the construction of the road network. could contain heavy metals, hydrocarbons, and a potential source of hazardous ground gasses.
- Organic rich Alluvium could represent a potential source of hazardous ground gasses.

Off Site

- Railway station and subsequently scrap yard - potential source of heavy metals, hydrocarbons, volatile compounds, and hazardous ground gasses.
- Landfill – potential for leachate migration towards site.

- Organic rich Alluvium could represent a potential source of hazardous ground gasses.

- Electricity substation located 200m north represents potential source of oils and PCBs, not a potential source If it dates from 1980s onwards.

8.9. The following potential courses are not included within the conceptual site model:

- Infilled brick pits - potential source of hazardous ground gasses, however, they are located near to the proposed road structures rather than buildings. They are located too far from proposed buildings to represent a risk.

- Landfill – Potential ground gas risk associated with landfills is discounted as they are located too far from proposed buildings to represent a risk.

Conceptual Site Model - Pathways

8.10. The following potential contaminant migration pathways have been identified at the site:

- Human Health:

- Dermal contact with soil or dust

- Incidental ingestion of soil and/or dust

- Inhalation of dust and/or fibres

- Inhalation of vapours

- Migration and accumulation of ground gas in enclosed spaces leading to inhalation or explosion

- Controlled Waters:

- Leaching of soil contaminants

- Vertical and lateral migration of contaminated groundwater

- Surface run-off

- Flora and Fauna

- Uptake and accumulation

Conceptual Site Model - Receptors

8.11. The following potential receptors have been identified at the site and surrounding area:

On Site

- Underlying Secondary A Aquifer – Wolston Sand and Gravel
- Underlying Secondary A Aquifer – Alluvium
- Underlying undifferentiated Secondary Aquifer – Thrussington Member
- Underlying Secondary B Aquifer – Mercia Mudstone
- Field drainage system and streams
- Ponds
- Future site users
- Intrusive maintenance works
- Future buildings
- Flora and Fauna

Off Site

- Wider Secondary A Aquifer – Alluvium
- Wider undifferentiated Secondary Aquifer – Thrussington Member
- Wider Secondary B Aquifer – Mercia Mudstone
- Surface water receptors – off site, downstream watercourses
- SSSI, Ancient Woodlands and Local Nature Reserves

8.12. The Preliminary Conceptual Site Model is presented in **Table 4**.

Table

Table 8-1: Preliminary Conceptual Site Model

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
Area 1 – Proposed Rail Freight Interchange						
Made Ground at the site related to the construction of the road network. could contain heavy metals, hydrocarbons, biological contamination (eg, e-coli) and a potential source of hazardous ground gasses.	Dermal contact with, and incidental ingestion or inhalation of soil and/or dust.	Future commercial site users	Mi	Ul	VL	Preliminary ground investigation works have not recorded contaminants above commercial screening levels. The proposed development is likely to have limited areas of soft landscaping, so a pathway to future site users is unlikely to be realised. If contaminants are encountered at the site as part of more detailed investigation works, the risk to future site users could be mitigated by the incorporation of clean capping layers in soft landscaped areas. The exposure of intrusive maintenance workers can be mitigated by the adoption of suitable working methods, utilising appropriate personal protective equipment (PPE) and maintaining good hygiene.
		Intrusive maintenance workers	Mi	Ul	VL	
	Inhalation of vapours	Future commercial site users	Mi	Ul	VL	A vapour risk has not been identified by the preliminary ground investigation data. If volatiles are identified in soils, a risk assessment will be undertaken to determine if mitigation is required.

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
		Intrusive maintenance workers	Mi	Ul	VL	The exposure of intrusive maintenance workers can be mitigated by the adoption of suitable working methods, utilising appropriate personal protective equipment (PPE)
	Migration and accumulation of ground gases in enclosed spaces leading to asphyxiation (carbon dioxide) or explosion (methane).	Future commercial site users	Md	Ul	L	Preliminary ground investigation has identified low gas concentrations, with most of the site indicated to be CS1 whereby gas protection measures are not required. One isolated occurrence of elevated carbon dioxide was recorded. Further gas monitoring is required to determine whether gas protection measures are required.
	Leaching and permeation through soil profile.	Underlying Secondary Aquifers	Md	Ul	L	Preliminary ground investigation works have not identified a significant risk to controlled waters. The soils at site are predominantly cohesive, so any contaminant hotspots are likely to be localised, and unable to freely migrate through the aquifers. Development of the site will facilitate remedial works, which would reduce the risk to controlled waters.
	Vertical and lateral migration of contaminants.		Md	Ul	L	
	Lateral migration of contaminated groundwater.	Wider Secondary Aquifers	Md	Ul	L	

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
	Surface run-off.	Field drainage system and streams	Mi	Ul	VL	
	Lateral migration of contaminated groundwater and root uptake	Off site SSSI, Ancient Woodlands and Local Nature Reserves	Md	Ul	L	The woodlands represent a sensitive receptor, however, Made Ground with potentially elevated contaminants has not been recorded near to the woodland receptors. The soils at site are predominantly cohesive, so any contaminant hotspots are likely to be localised, and unable to freely migrate through the aquifers. Development of the site will facilitate remedial works, which would reduce the risk to controlled waters.
Asbestos within shallow soils around farm buildings;	Inhalation of dust and/or fibres	Future commercial site users	Mi	Ul	VL	Preliminary ground investigation works recorded asbestos within 1 of 43 samples, with a quantification of <0.001%. Asbestos containing materials on buildings should be removed from site by a competent asbestos removal contractor. The risk to future site users is minimal based on the predominantly hardstand nature of the development. The exposure of intrusive maintenance workers can be mitigated by the adoption of suitable working methods, utilising appropriate personal protective equipment (PPE) and maintaining good hygiene.
		Intrusive maintenance workers	Mi	Ul	VL	

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
Hydrocarbons, lubricants and solvents located around tanks;	Dermal contact with, and incidental ingestion or inhalation of soil and/or dust.	Future commercial site users	Mi	Ul	VL	Preliminary ground investigation works have not recorded contaminants above commercial screening levels. The proposed development is likely to have limited areas of soft landscaping, so a pathway to future site users is unlikely to be realised. If contaminants are encountered at the site as part of more detailed investigation works, the risk to future site users could be mitigated by the incorporation of clean capping layers in soft landscaped areas. The exposure of intrusive maintenance workers can be mitigated by the adoption of suitable working methods, utilising appropriate personal protective equipment (PPE) and maintaining good hygiene.
		Intrusive maintenance workers	Mi	Ul	VL	
	Inhalation of vapours	Future commercial site users	Mi	Ul	VL	A vapour risk has not been identified by the preliminary ground investigation data. If volatiles are identified in soils, a risk assessment will be undertaken to determine if mitigation is required. The exposure of intrusive maintenance workers can be mitigated by the adoption of suitable working methods, utilising appropriate personal protective equipment (PPE)
		Intrusive maintenance workers	Mi	Ul	VL	

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
	Migration and accumulation of ground gases in enclosed spaces leading to asphyxiation (carbon dioxide) or explosion (methane).	Future commercial site users	Md	Ul	L	Preliminary ground investigation has identified low gas concentrations, with most of the site indicated to be CS1 whereby gas protection measures are not required. One isolated occurrence of elevated carbon dioxide was recorded. Further gas monitoring is required to determine whether gas protection measures are required.
	Leaching and permeation through soil profile.	Underlying Secondary Aquifers	Md	Ul	L	Preliminary ground investigation works have not identified a significant risk to controlled waters. The soils at site are predominantly cohesive, so any contaminant hotspots are likely to be localised, and unable to freely migrate through the aquifers. Development of the site will facilitate remedial works, which would reduce the risk to controlled waters.
	Vertical and lateral migration of contaminants.		Md	Ul	L	
	Lateral migration of contaminated groundwater.	Wider Secondary Aquifers	Md	Ul	L	
	Surface run-off.	Field drainage system and streams	Mi	Ul	VL	

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
	Lateral migration of contaminated groundwater and root uptake	Off site SSSI, Ancient Woodlands and Local Nature Reserves	Md	Ul	L	The woodlands represent a sensitive receptor, however, Made Ground with potentially elevated contaminants has not been recorded near to the woodland receptors. The soils at site are predominantly cohesive, so any contaminant hotspots are likely to be localised, and unable to freely migrate through the aquifers. Development of the site will facilitate remedial works, which would reduce the risk to controlled waters.
Pesticides and herbicides within fields and along railway lines;	Dermal contact with, and incidental ingestion or inhalation of soil and/or dust.	Future commercial site users	Mi	Ul	VL	Ground investigation should be undertaken to confirm the presence of pesticides and herbicides and assess the risk to flora and fauna. The proposed development is likely to have limited areas of soft landscaping, so a pathway to future site users is unlikely to be realised. If contaminants are encountered at the site as part of more detailed investigation works, the risk to future site users could be mitigated by the incorporation of clean capping layers in soft landscaped areas. The exposure of intrusive maintenance workers can be mitigated by the adoption of suitable working methods, utilising appropriate personal protective equipment (PPE) and maintaining good hygiene.
		Intrusive maintenance workers	Mi	Ul	VL	
		Flora and Fauna	Mi	Lw	L	

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
	Leaching and permeation through soil profile.	Underlying Secondary Aquifers	Md	Ul	L	Ground investigation should be undertaken to confirm the presence of pesticides and herbicides. The soils at site are predominantly cohesive, so any contaminant hotspots are likely to be localised, and unable to freely migrate through the aquifers. Development of the site will facilitate remedial works, which would reduce the risk to controlled waters.
	Surface run-off.	Field drainage system and streams	Mi	Ul	VL	
	Lateral migration of contaminated groundwater and subsequent root uptake	Off site SSSI, Ancient Woodlands and Local Nature Reserves	Md	Ul	L	Ground investigation should be undertaken to confirm the presence of pesticides and herbicides. The soils at site are predominantly cohesive, so any contaminant hotspots are likely to be localised, and unable to freely migrate through the aquifers. Development of the site will facilitate remedial works, which would reduce the risk to controlled waters.

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
Organic rich Alluvium could represent a potential source of hazardous ground gasses.	Migration and accumulation of ground gases in enclosed spaces leading to asphyxiation (carbon dioxide) or explosion (methane).	Future commercial site users	Md	Ul	L	Preliminary ground investigation has identified low gas concentrations, with most of the site indicated to be CS1 whereby gas protection measures are not required. One isolated occurrence of elevated carbon dioxide was recorded. Further gas monitoring is required to determine whether gas protection measures are required.
Area 2 – A47 Link Road						
Made Ground at the site related to the realignment of water courses. could contain heavy metals, hydrocarbons and a potential source of hazardous ground gasses.	Dermal contact with, and incidental ingestion or inhalation of soil and/or dust.	Future commercial site users	Mi	Ul	VL	Ground investigation works have not been undertaken in Area 2, and there is potential for localised Made Ground. The proposed development will comprise an access road, so a pathway to future site users is unlikely to be realised. If contaminants are encountered at the site as part of more detailed investigation works, the risk to future site users could be mitigated by the incorporation of clean capping layers in soft landscaped areas. The exposure of intrusive maintenance workers can be mitigated by the adoption of suitable working methods, utilising appropriate personal protective equipment (PPE) and maintaining good hygiene.
		Intrusive maintenance workers	Mi	Ul	VL	

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
	Leaching and permeation through soil profile.	Underlying Secondary Aquifers	Md	Ul	L	Ground investigation works have not been undertaken in Area 2, and there is potential for localised Made Ground. However, a significant contaminant source has not been identified, The soils at site are predominantly cohesive, so any contaminant hotspots are likely to be localised, and unable to freely migrate through the aquifers. Development of the site will facilitate remedial works, which would reduce the risk to controlled waters.
	Vertical and lateral migration of contaminants.		Md	Ul	L	
	Lateral migration of contaminated groundwater.	Wider Secondary Aquifers	Md	Ul	L	
	Surface run-off.	Field drainage system and streams	Mi	Ul	VL	

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
	Lateral migration of contaminated groundwater and root uptake	Off site SSSI, Ancient Woodlands and Local Nature Reserves	Md	Ul	L	The woodlands represent a sensitive receptor. Ground investigation works have not been undertaken in Area 2, and there is potential for localised Made Ground. However, a significant contaminant source has not been identified, The soils at site are predominantly cohesive, so any contaminant hotspots are likely to be localised, and unable to freely migrate through the aquifers. Development of the site will facilitate remedial works, which would reduce the risk to controlled waters.
Asbestos within shallow soils around farm buildings;	Inhalation of dust and/or fibres	Future commercial site users	Mi	Ul	VL	Asbestos containing materials on farm buildings should be removed from site by a competent asbestos removal contractor. The risk to future site users is minimal based on the proposed end use and predominantly hardstand nature of the development. The exposure of intrusive maintenance workers can be mitigated by the adoption of suitable working methods, utilising appropriate personal protective equipment (PPE) and maintaining good hygiene.
		Intrusive maintenance workers	Mi	Ul	VL	
Pesticides and herbicides within	Dermal contact with, and incidental ingestion or	Future commercial site users	Mi	Ul	VL	Ground investigation should be undertaken to confirm the presence of pesticides and herbicides and assess the risk to flora and fauna.

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
fields and along railway lines;	inhalation of soil and/or dust.	Intrusive maintenance workers	Mi	Ul	VL	The proposed development is likely to have limited areas of soft landscaping, so a pathway to future site users is unlikely to be realised. If contaminants are encountered at the site as part of more detailed investigation works, the risk to future site users could be mitigated by the incorporation of clean capping layers in soft landscaped areas. The exposure of intrusive maintenance workers can be mitigated by the adoption of suitable working methods, utilising appropriate personal protective equipment (PPE) and maintaining good hygiene.
		Flora and Fauna	Mi	Lw	L	
	Leaching and permeation through soil profile.	Underlying Secondary Aquifers	Md	Ul	L	Ground investigation should be undertaken to confirm the presence of pesticides and herbicides. The soils at site are predominantly cohesive, so any contaminant hotspots are likely to be localised, and unable to freely migrate through the aquifers. Development of the site will facilitate remedial works, which would reduce the risk to controlled waters.
	Surface run-off.	Field drainage system and streams	Mi	Ul	VL	
Area 3 – M69 Junction Improvements						
Made Ground at the site but predominantly	Dermal contact with, and incidental ingestion or	Future commercial site users	Mi	Ul	VL	Preliminary ground investigation works did not record elevated contaminant concentrations.

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
located around road networks - could contain heavy metals, hydrocarbons asbestos	inhalation of soil and/or dust.	Intrusive maintenance workers	Mi	Ul	VL	The proposed development will comprise an access road, so a pathway to future site users is unlikely to be realised. If contaminants are encountered at the site as part of more detailed investigation works, the risk to future site users could be mitigated by the incorporation of clean capping layers in soft landscaped areas. The exposure of intrusive maintenance workers can be mitigated by the adoption of suitable working methods, utilising appropriate personal protective equipment (PPE) and maintaining good hygiene.
	Leaching and permeation through soil profile.	Underlying Secondary Aquifers	Md	Ul	L	Preliminary ground investigation works have not identified a significant risk to controlled waters. The soils at site are predominantly cohesive, so any contaminant hotspots are likely to be localised, and unable to freely migrate through the aquifers. Development of the site will facilitate remedial works, which would reduce the risk to controlled waters.
	Vertical and lateral migration of contaminants.		Md	Ul	L	
	Lateral migration of contaminated groundwater.	Wider Secondary Aquifers	Md	Ul	L	
	Surface run-off.	Field drainage system and streams	Mi	Ul	VL	

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
	Lateral migration of contaminated groundwater and root uptake	Off site SSSI, Ancient Woodlands and Local Nature Reserves	Md	Ul	L	The woodlands represent a sensitive receptor. Ground investigation works have not been undertaken in Area 2, and there is potential for localised Made Ground. However, a significant contaminant source has not been identified, The soils at site are predominantly cohesive, so any contaminant hotspots are likely to be localised, and unable to freely migrate through the aquifers. Development of the site will facilitate remedial works, which would reduce the risk to controlled waters.
Off Site Sources						
Railway station and subsequently scrap yard - potential source of heavy metals, hydrocarbons, volatile compounds and	Migration and accumulation of ground gases in enclosed spaces leading to asphyxiation (carbon dioxide) or explosion (methane).	Future commercial site users	Md	Ul	L	Made Ground adjacent to the site could represent a localised potential source of ground gas which could migrate onto site. Further gas monitoring is required to determine whether gas protection measures are required.

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
hazardous ground gasses.	Lateral migration of contaminated groundwater.	Underlying Secondary Aquifers	Md	Ul	L	Preliminary ground investigation information did not identify significantly elevated contaminants within groundwater at the site. The cohesive soils should prevent contaminant migration towards the site and prevent degradation of the aquifer on site.
Landfill – potential for leachate migration towards site.	Lateral migration of contaminated groundwater/ leachate.	Underlying Secondary Aquifers	Md	Ul	L	Preliminary ground investigation information did not identify significantly elevated contaminants within groundwater at the site. The cohesive soils should prevent contaminant migration towards the site and prevent degradation of the aquifer on site.
Organic rich Alluvium could represent a potential source of hazardous ground gasses.	Migration and accumulation of ground gases in enclosed spaces leading to asphyxiation (carbon dioxide) or explosion (methane).	Future commercial site users	Md	Ul	L	Alluvium adjacent to the site could represent a localised potential source of ground gas which could migrate onto site. Further gas monitoring is required to determine whether gas protection measures are required.

Source	Pathway	Receptor	Con	Prob	Risk	Potential Mitigation/Investigation Requirements
Electricity substation located 200m north represents potential source of oils and PCBs,	Lateral migration of contaminated groundwater.	Underlying Secondary Aquifers	Mi	Ul	VL	If the electricity substation dates to pre 1980s, it may represent a potential source of PCBs and oils. The cohesive soils should prevent contaminant migration towards the site, and prevent degradation of the aquifer on site, especially when considering the distance from site.

VH = Very High, H = High, M = Moderate, M/L = Moderate/Low, L = Low, VL = Very Low

KEY: Sv = Severe, Md = Medium, Mi = Mild, Mr = Minor, Hi = High, Li = Likely, Lw = Low Likelihood, Ul = Unlikely

Pollutant Linkage Assessment Summary

When considered in the context of the conceptual site model and the limited historical activities that have taken place, the proposed development is considered to pose a LOW risk to human health. It is considered that the main driver for the risk rating for human health is the lack of historical development at the site supported by the preliminary ground investigation data.

The risk posed to controlled waters is predominantly considered to be LOW due to the lack of contaminant sources identified at the site and supported by the preliminary ground investigation data.

Further ground investigation will be required to delineate the linkages, particularly in Area 2 where ground investigation has not been undertaken to date.

9. CONCLUSION AND RECOMMENDATIONS

Conclusions

9.1. The site comprises an irregular shaped plot of land covering c. 266hecatres, which is currently utilised for agricultural purposes, comprising fields and farm buildings, and includes sections of the local road and rail network

9.2. Limited historical development has occurred at the site over the reviewed mapping period. Several farms have been present on site since pre 1880s, with streams and fields crossing the site. A railway station, electricity substation, tank, scrap yard, small brick works and two landfill sites have been recorded in the surrounding area.

9.3. Published geology indicates that the site is predominantly underlain by glacial deposits of the Thrussington Member and Bosworth Clay Member. Localised deposits of Alluvium and the Wolston Sand & Gravel are mapped at the site. Bedrock is indicated to comprise the Mercia Mudstone.

9.4. The Environment Agency (EA) classifies the Alluvium and the Wolston Sand and Gravel as Secondary A Aquifers, the Bosworth Clay Member as unproductive strata, the Thrussington Member as an undifferentiated Secondary Aquifer, and the Mercia Mudstone is categorised as a Secondary B Aquifer.

9.5. Preliminary third party ground investigation data has been reviewed which largely confirms the published geology. Laboratory testing did not identify significant contamination. Ground gas monitoring data recorded low concentrations of ground gas, with one hotspot where elevated carbon dioxide was recorded.

9.6. The environmental risk assessment has identified a low risk to be both human health and controlled water receptors in the context of a commercial development. This is based on the lack of significant contaminant sources, supported by the preliminary ground investigation data.

9.7. A significant earthworks operation will be required at the site to create development plateaus, with retaining walls and slopes required to manage the change of levels. It is likely that the proposed buildings will require piled foundations or ground improvement to achieve adequate loading and settlement criteria.

Recommendations

9.8. Further investigation works will be required to develop the preliminary conceptual site model and fully delineate the pollutant linkages and to inform mitigation measures and earthworks and geotechnical design.

DRAWINGS

Drawing 1: Site Zoning Plan

HINCKLEY NATIONAL RAIL FREIGHT INTERCHANGE

Date:	28-10-2022
Paper size:	A3
Scale:	1:20,000

0 200 400 600 800 1,000 m

Key:

- Main Order Limits
- Main HNRFI Site
- M69 Junction 2 Works
- A47 Link Road Corridor

TRITAX SYMMETRY
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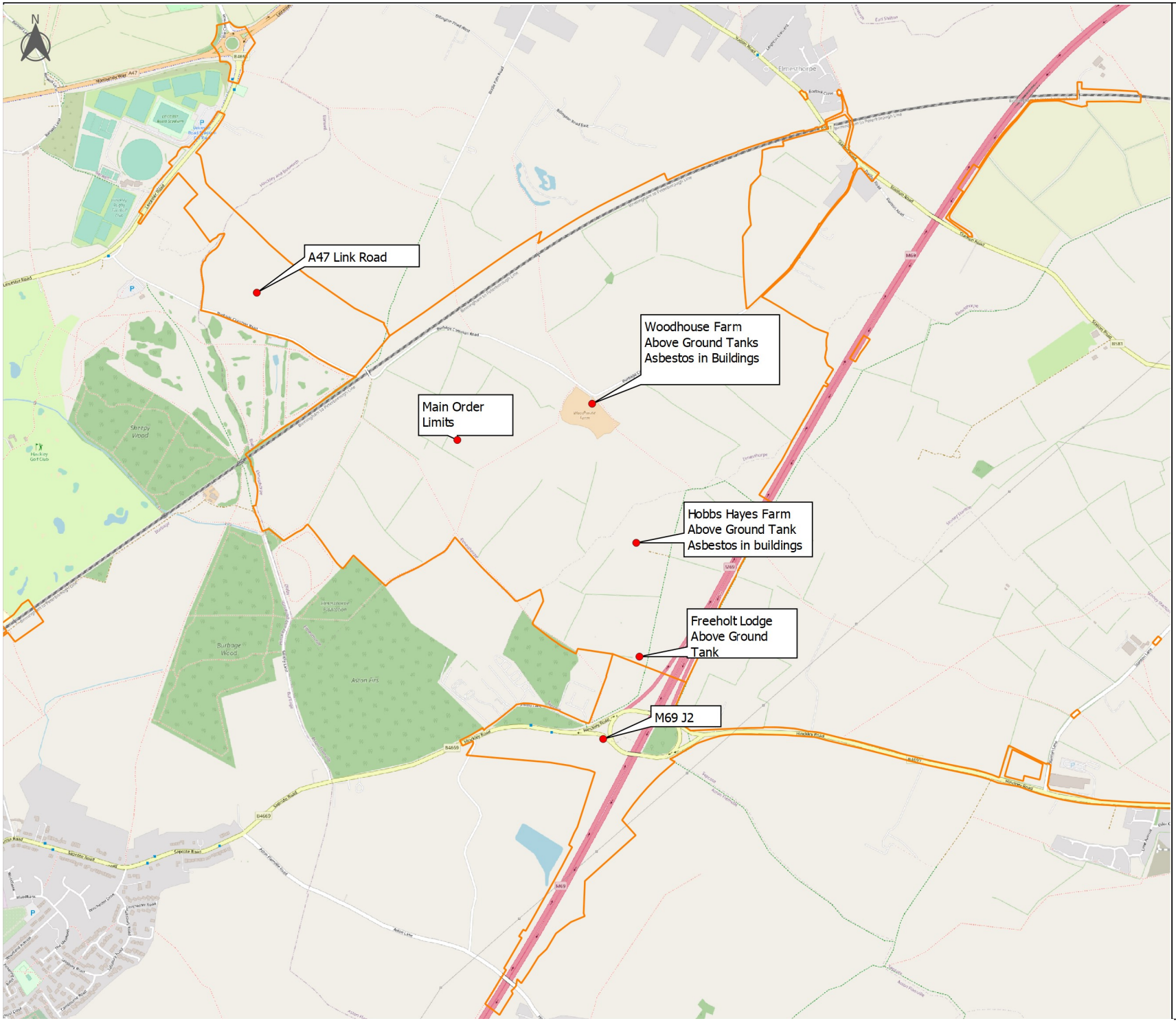
Figure 2.1 - Descriptive terms used for land inside the Main Order Limits

APFP Regulation:	5(2)(a)
Document Ref:	6.3.2.1
Drawing Number:	ES Figure 2.1
Drawing Status:	FINAL
Revision:	V3
Drawn by:	Rhys Williams
Approved by:	Erin Banks

DRAWINGS

Drawing 2: Potentially Sources of Contamination



HINCKLEY NATIONAL RAIL FREIGHT INTERCHANGE

Date:	31-10-2022
Paper size:	A3
Scale:	1:12500

0 100 200 300 400 500 m

Key:

DCO Site

TRITAX SYMMETRY

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ES Figure 15.1 Potential Sources of Contamination

APFP Regulation:	5(2)(a)
Document Ref:	6.3.15.1
Drawing Number:	ES Figure 15.1
Drawing Status:	FINAL
Revision:	V2
Drawn by:	Tim Hull
Approved by:	Richard Robinson

APPENDICES

Appendix 1: Proposed Site Masterplan

Schedule of Accommodation
All areas are gross internal

Unit	Distribution	Offices	Total	Car Parking	Lorry Parking	Height
01	61,435 sq.m.	2,787 sq.m.	64,222 sq.m.	534 no. spaces	114 no. spaces	Up to 22m
02	25,316 sq.m.	1,208 sq.m.	26,524 sq.m.	221 no. spaces	45 no. spaces	Up to 22m
03	25,548 sq.m.	1,115 sq.m.	26,663 sq.m.	222 no. spaces	53 no. spaces	Up to 22m
04	44,825 sq.m.	2,090 sq.m.	46,915 sq.m.	391 no. spaces	63 no. spaces	Up to 22m
05	32,702 sq.m.	1,672 sq.m.	34,374 sq.m.	286 no. spaces	51 no. spaces	Up to 28m
06	130,992 sq.m.	4,645 sq.m.	135,637 sq.m.	1130 no. spaces	191 no. spaces	Up to 22m
07	95,225 sq.m.	2,369 sq.m.	97,594 sq.m.	813 no. spaces	76 no. spaces	Up to 22m
08	76,551 sq.m.	2,369 sq.m.	78,920 sq.m.	658 no spaces	63 no. spaces	Up to 28m
09	128,948 sq.m.	3,252 sq.m.	132,200 sq.m.	1102 no. spaces	180 no. spaces	Up to 25m
		Total	643,049 sq.m.	5,357 no. spaces	836 no. spaces	
		Railport	465 sq.m.	99 no. spaces		
		Lorry Park & Drivers Welfare	465 sq.m.	11 no. spaces	104 no. spaces	
		Amenity & security Offices	465 sq.m.	18 no. spaces		
		Total Development	644,444 sq.m.	5,485 no. spaces	940 no. spaces	

no. date revision by

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client

TRITAX SYMMETRY
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project

HINCKLEY NATIONAL RAIL FREIGHT INTERCHANGE

drawing

Illustrative Masterplan

scale 1:2500 @ A0 drawn mjl

checked mjl date July 2022

Regulation no.5(2)(o)

5905 - 301

0m 10 20 40 70 100m 150 200m
Scale Bar

APPENDICES

Appendix 2: Groundsure Report

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

BURBAGE COMMON ROAD, ELMESTHORPE,LE9 7SE

Order Details

Date: 18/01/2021

Your ref: Ref NTT2814 – Main Site

Our Ref: GSIP-2021-10711-3797

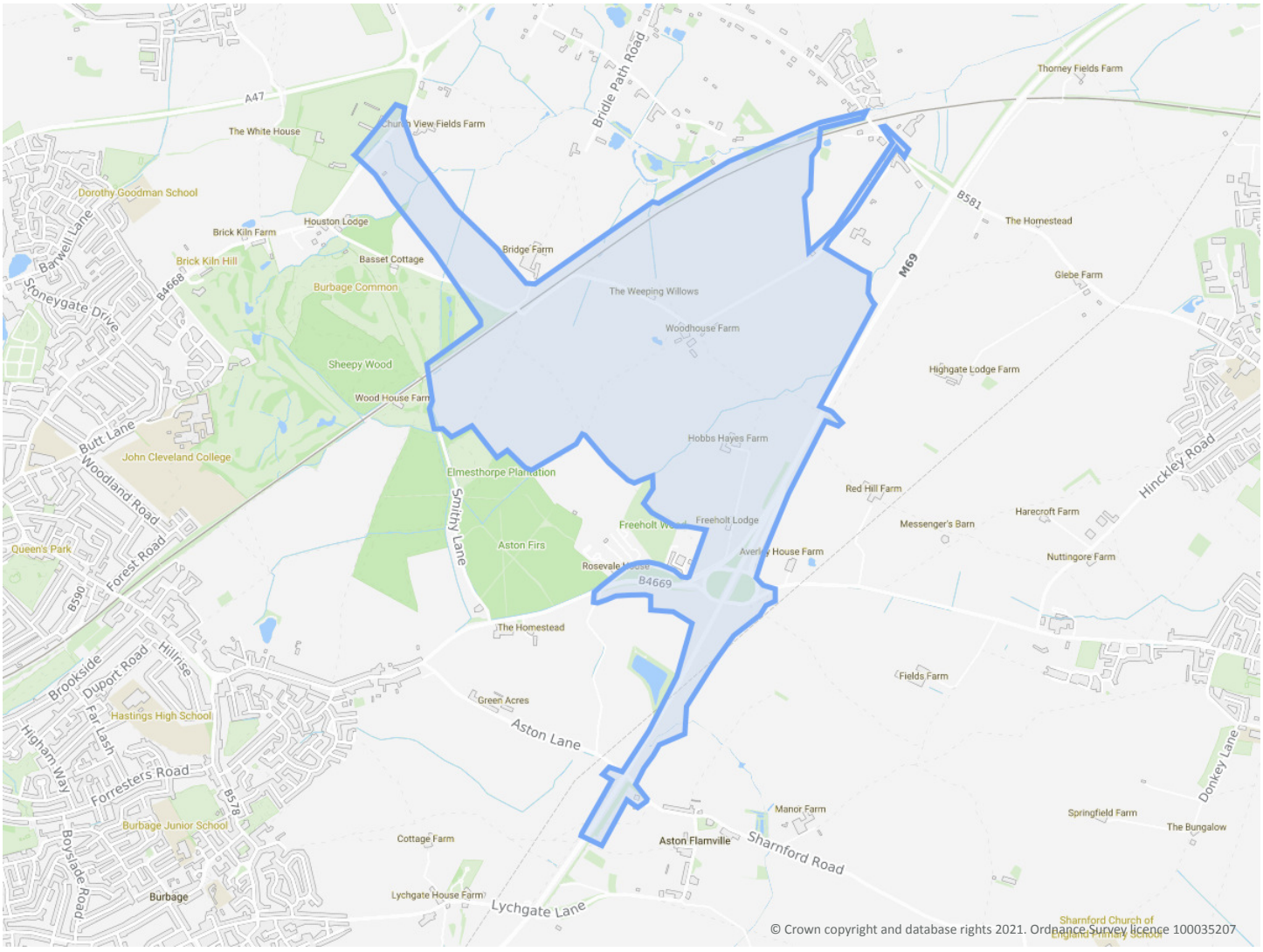
Client: BWB Consulting

Site Details

Location: 446111 294451

Area: 257.73 ha

Authority: Blaby District Council, Hinckley and Bosworth Borough Council



Contact us with any questions at:
info@groundsure.com
08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
11	1.1	Historical industrial land uses	16	10	13	21	-
14	1.2	Historical tanks	0	1	0	6	-
14	1.3	Historical energy features	1	0	2	0	-
15	1.4	Historical petrol stations	0	0	0	0	-
15	1.5	Historical garages	0	0	0	2	-
16	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
17	2.1	Historical industrial land uses	22	15	18	27	-
21	2.2	Historical tanks	0	1	0	7	-
21	2.3	Historical energy features	2	0	2	0	-
22	2.4	Historical petrol stations	0	0	0	0	-
22	2.5	Historical garages	0	0	0	2	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
23	3.1	Active or recent landfill	0	0	0	0	-
23	3.2	Historical landfill (BGS records)	0	0	0	0	-
24	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
24	3.4	Historical landfill (EA/NRW records)	0	0	2	0	-
24	3.5	Historical waste sites	0	2	1	1	-
25	3.6	Licensed waste sites	0	0	1	5	-
27	3.7	Waste exemptions	51	1	63	49	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
44	4.1	Recent industrial land uses	3	3	12	-	-
45	4.2	Current or recent petrol stations	0	0	0	1	-
46	4.3	Electricity cables	0	0	0	0	-
46	4.4	Gas pipelines	0	0	0	0	-
46	4.5	Sites determined as Contaminated Land	0	0	0	0	-

46	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
47	4.7	Regulated explosive sites	0	0	0	0	-
47	4.8	Hazardous substance storage/usage	0	0	0	0	-
47	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
47	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
47	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
48	4.12	Radioactive Substance Authorisations	0	0	0	0	-
48	**4.13**	**Licensed Discharges to controlled waters**	1	0	7	4	-
50	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
50	4.15	Pollutant release to public sewer	0	0	0	0	-
50	4.16	List 1 Dangerous Substances	0	0	0	0	-
50	4.17	List 2 Dangerous Substances	0	0	0	0	-
51	**4.18**	**Pollution Incidents (EA/NRW)**	0	0	1	3	-
51	4.19	Pollution inventory substances	0	0	0	0	-
52	4.20	Pollution inventory waste transfers	0	0	0	0	-
52	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
53	**5.1**	**Superficial aquifer**	Identified (within 500m)				
57	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
59	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
68	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
68	5.5	Groundwater vulnerability- local information	None (within 0m)				
69	**5.6**	**Groundwater abstractions**	1	0	0	1	15
73	5.7	Surface water abstractions	0	0	0	0	0
73	5.8	Potable abstractions	0	0	0	0	0
74	5.9	Source Protection Zones	0	0	0	0	-
74	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
75	**6.1**	**Water Network (OS MasterMap)**	33	9	38	-	-

82	6.2	Surface water features	1	12	36	-	-
82	6.3	WFD Surface water body catchments	3	-	-	-	-
83	6.4	WFD Surface water bodies	1	0	0	-	-
83	6.5	WFD Groundwater bodies	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
84	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	High (within 50m)				
85	7.2	Historical Flood Events	0	0	0	-	-
85	7.3	Flood Defences	0	0	0	-	-
85	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
85	7.5	Flood Storage Areas	0	0	0	-	-
86	7.6	Flood Zone 2	Identified (within 50m)				
87	7.7	Flood Zone 3	Identified (within 50m)				
Page	Section	Surface water flooding					
88	8.1	Surface water flooding	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
90	9.1	Groundwater flooding	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
91	10.1	Sites of Special Scientific Interest (SSSI)	1	0	0	0	0
92	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
92	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
92	10.4	Special Protection Areas (SPA)	0	0	0	0	0
92	10.5	National Nature Reserves (NNR)	0	0	0	0	0
93	10.6	Local Nature Reserves (LNR)	1	0	0	0	0
93	10.7	Designated Ancient Woodland	2	1	1	0	0
93	10.8	Biosphere Reserves	0	0	0	0	0
94	10.9	Forest Parks	0	0	0	0	0
94	10.10	Marine Conservation Zones	0	0	0	0	0
94	10.11	Green Belt	0	0	0	0	0
94	10.12	Proposed Ramsar sites	0	0	0	0	0

94	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
95	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
95	10.15	Nitrate Sensitive Areas	0	0	0	0	0
95	**10.16**	**Nitrate Vulnerable Zones**	1	1	0	0	6
97	**10.17**	**SSSI Impact Risk Zones**	11	-	-	-	-
100	**10.18**	**SSSI Units**	2	1	1	1	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
103	11.1	World Heritage Sites	0	0	0	-	-
104	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
104	11.3	National Parks	0	0	0	-	-
104	**11.4**	**Listed Buildings**	0	1	5	-	-
105	**11.5**	**Conservation Areas**	1	0	0	-	-
105	11.6	Scheduled Ancient Monuments	0	0	0	-	-
106	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
107	**12.1**	**Agricultural Land Classification**	Grade 3 (within 250m)				
108	**12.2**	**Open Access Land**	7	0	0	-	-
108	12.3	Tree Felling Licences	0	0	0	-	-
109	**12.4**	**Environmental Stewardship Schemes**	4	0	0	-	-
109	**12.5**	**Countryside Stewardship Schemes**	0	0	1	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
110	**13.1**	**Priority Habitat Inventory**	21	15	23	-	-
113	**13.2**	**Habitat Networks**	4	0	2	-	-
113	13.3	Open Mosaic Habitat	0	0	0	-	-
113	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
114	**14.1**	**10k Availability**	Identified (within 500m)				
116	**14.2**	**Artificial and made ground (10k)**	9	4	2	3	-
118	**14.3**	**Superficial geology (10k)**	15	3	16	11	-

120	14.4	Landslip (10k)	0	0	0	0	-
121	**14.5**	**Bedrock geology (10k)**	3	0	1	2	-
122	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
123	**15.1**	**50k Availability**	Identified (within 500m)				
124	15.2	Artificial and made ground (50k)	0	0	0	0	-
124	15.3	Artificial ground permeability (50k)	0	0	-	-	-
125	**15.4**	**Superficial geology (50k)**	11	1	9	10	-
127	**15.5**	**Superficial permeability (50k)**	Identified (within 50m)				
127	15.6	Landslip (50k)	0	0	0	0	-
128	15.7	Landslip permeability (50k)	None (within 50m)				
129	**15.8**	**Bedrock geology (50k)**	1	0	0	0	-
130	**15.9**	**Bedrock permeability (50k)**	Identified (within 50m)				
130	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
131	**16.1**	**BGS Boreholes**	28	6	29	-	-
Page	Section	Natural ground subsidence					
135	**17.1**	**Shrink swell clays**	Low (within 50m)				
137	**17.2**	**Running sands**	Low (within 50m)				
139	**17.3**	**Compressible deposits**	Moderate (within 50m)				
141	**17.4**	**Collapsible deposits**	Very low (within 50m)				
143	**17.5**	**Landslides**	Low (within 50m)				
145	**17.6**	**Ground dissolution of soluble rocks**	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
147	18.1	Natural cavities	0	0	0	0	-
148	**18.2**	**BritPits**	0	0	1	0	-
148	**18.3**	**Surface ground workings**	30	3	19	-	-
150	18.4	Underground workings	0	0	0	0	0
150	18.5	Historical Mineral Planning Areas	0	0	0	0	-

151	18.6	Non-coal mining	0	0	0	0	0
151	18.7	Mining cavities	0	0	0	0	0
151	18.8	JPB mining areas	None (within 0m)				
151	18.9	Coal mining	None (within 0m)				
151	18.10	Brine areas	None (within 0m)				
152	18.11	Gypsum areas	None (within 0m)				
152	18.12	Tin mining	None (within 0m)				
152	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
153	**19.1**	**Radon**	Less than 1% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
154	**20.1**	**BGS Estimated Background Soil Chemistry**	86	8	-	-	-
157	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
158	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
159	21.1	Underground railways (London)	0	0	0	-	-
159	21.2	Underground railways (Non-London)	0	0	0	-	-
160	21.3	Railway tunnels	0	0	0	-	-
160	**21.4**	**Historical railway and tunnel features**	6	2	0	-	-
160	21.5	Royal Mail tunnels	0	0	0	-	-
161	21.6	Historical railways	0	0	0	-	-
161	**21.7**	**Railways**	10	5	1	-	-
162	21.8	Crossrail 1	0	0	0	0	-
162	21.9	Crossrail 2	0	0	0	0	-
162	21.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 22/09/2017

Site Area: 257.73ha

Recent site history - 2008 aerial photograph

Capture Date: 20/09/2008

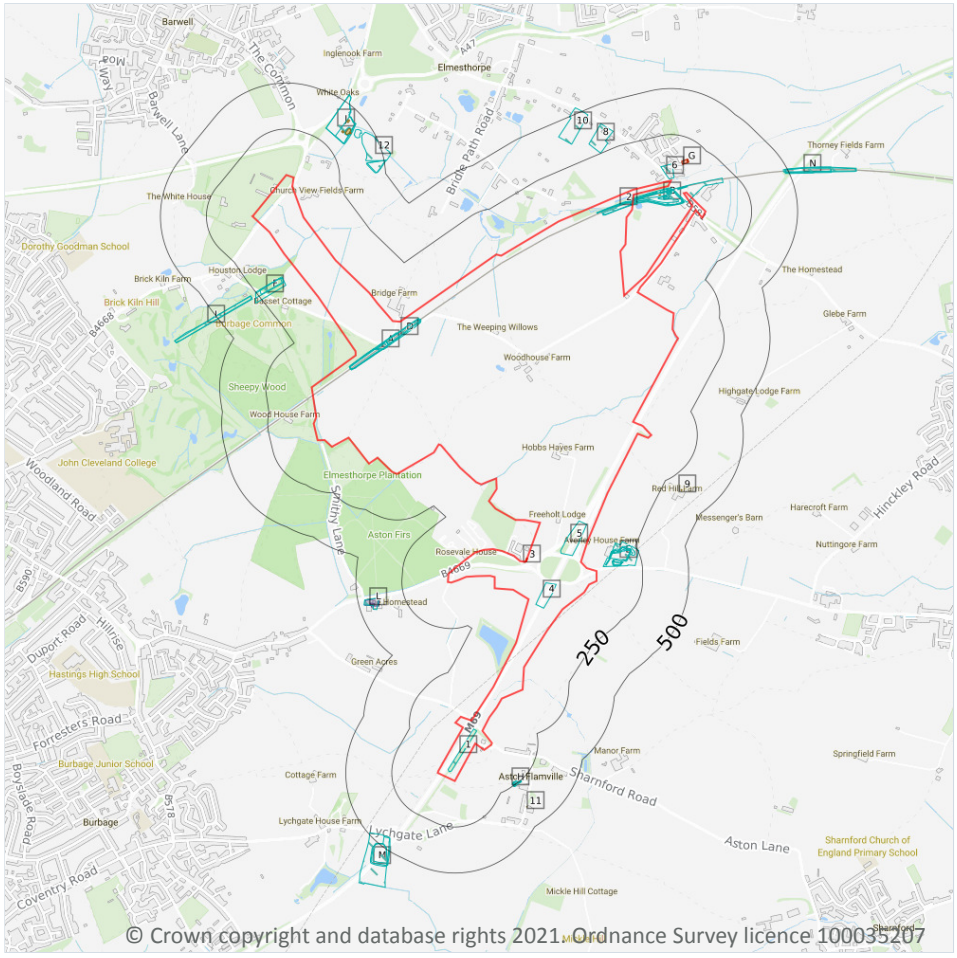
Site Area: 257.73ha

Recent site history - 1999 aerial photograph

Capture Date: 04/10/1999

Site Area: 257.73ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

1.1 Historical industrial land uses

Records within 500m	60

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 11**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Unspecified Heap**	**1978**	**1756518**

ID	Location	Land use	Dates present	Group ID
2	**On site**	**Railway Sidings**	**1886**	**1823913**
4	**On site**	**Cuttings**	**1978**	**1751945**
5	**On site**	**Cuttings**	**1978**	**1751943**
A	**On site**	**Cuttings**	**1886**	**1785611**
A	**On site**	**Cuttings**	**1968 - 1978**	**1836081**
A	**On site**	**Cuttings**	**1950**	**1844783**
B	**On site**	**Railway Sidings**	**1968 - 1978**	**1787608**
B	**On site**	**Railway Sidings**	**1886 - 1904**	**1798036**
B	**On site**	**Railway Sidings**	**1886**	**1817165**
B	**On site**	**Railway Sidings**	**1950**	**1847486**
C	**On site**	**Cuttings**	**1886 - 1904**	**1797885**
C	**On site**	**Cuttings**	**1950**	**1833277**
C	**On site**	**Cuttings**	**1968 - 1978**	**1845523**
D	**On site**	**Cuttings**	**1904 - 1950**	**1833437**
D	**On site**	**Cuttings**	**1886**	**1835469**
6	11m N	Unspecified Factory	1978	1765610
B	13m S	Railway Station	1886	1789656
B	15m S	Railway Station	1886	1821683
B	19m S	Railway Station	1904 - 1950	1830817
B	24m S	Railway Station	1968 - 1978	1849908
7	28m N	Railway Sidings	1886	1823032
B	44m S	Railway Building	1886	1793487
B	45m S	Railway Building	1968 - 1978	1836772
E	45m NE	Brick Works	1886	1843385
B	49m S	Railway Building	1904 - 1950	1810489
E	60m NE	Unspecified Ground Workings	1886	1754834
F	87m SW	Rifle Range	1886	1843103
F	89m SW	Rifle Range	1904	1847243

ID	Location	Land use	Dates present	Group ID
B	93m S	Railway Building	1950	1764935
E	95m E	Unspecified Ground Workings	1886 - 1904	1821901
E	97m E	Unspecified Pit	1886	1781253
E	98m NE	Sand Pit	1886	1753411
F	98m SW	Rifle Range	1886	1838814
E	101m E	Unspecified Pit	1950	1847226
E	130m NE	Refuse Heap	1904 - 1950	1805420
E	142m E	Unspecified Kiln	1886	1806292
H	235m SE	Unspecified Ground Workings	1904 - 1950	1830229
H	237m SE	Unspecified Pit	1886	1777096
8	252m NW	Nursery	1978	1772195
I	284m SW	Rifle Range	1886	1795053
I	286m SW	Rifle Range	1901 - 1938	1791754
J	318m NE	Unspecified Works	1968	1771291
J	318m NE	Sewage Works	1978	1803867
K	320m NE	Sewage Works	1950	1791785
10	358m NW	Nursery	1978	1772196
K	366m NE	Unspecified Tanks	1968 - 1978	1812221
K	368m NE	Unspecified Tanks	1950	1782280
L	388m W	Garage	1968	1780309
K	402m NE	Unspecified Heaps	1968 - 1978	1782777
12	402m E	Unspecified Pit	1886 - 1904	1793866
13	409m E	Unspecified Pit	1886	1846307
M	439m SW	Brick Works	1886	1764158
M	440m SW	Bricks Works	1904	1778984
N	476m NE	Cuttings	1886	1811074
N	480m NE	Cuttings	1950	1848976
O	485m NE	Cuttings	1904	1809968

ID	Location	Land use	Dates present	Group ID
O	485m NE	Cuttings	1886	1830544
M	486m SW	Unspecified Pit	1886	1783058
M	487m SW	Unspecified Pit	1904 - 1950	1830150

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**7**

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 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 11**

ID	Location	Land use	Dates present	Group ID
B	35m S	Unspecified Tank	1962	283217
9	334m SE	Unspecified Tank	1983 - 1994	294224
K	360m NE	Tanks	1972	287068
K	371m NE	Tanks	1962	287069
11	385m SE	Unspecified Tank	1963	283230
K	388m NE	Unspecified Tank	1972	283183
J	418m NE	Tanks	1972	287071

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**3**

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 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 11**

ID	Location	Land use	Dates present	Group ID
3	**On site**	**Electricity Substation**	**1983 - 1996**	**174847**
G	108m NE	Electricity Substation	1984	175660
G	135m NE	Electricity Substation	1994	177899

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 un-grouped 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	**2**

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 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 11**

ID	Location	Land use	Dates present	Group ID
L	385m W	Garage	1992	55248
L	418m W	Garage	1963	57455

This data is sourced from Ordnance Survey / Groundsure.

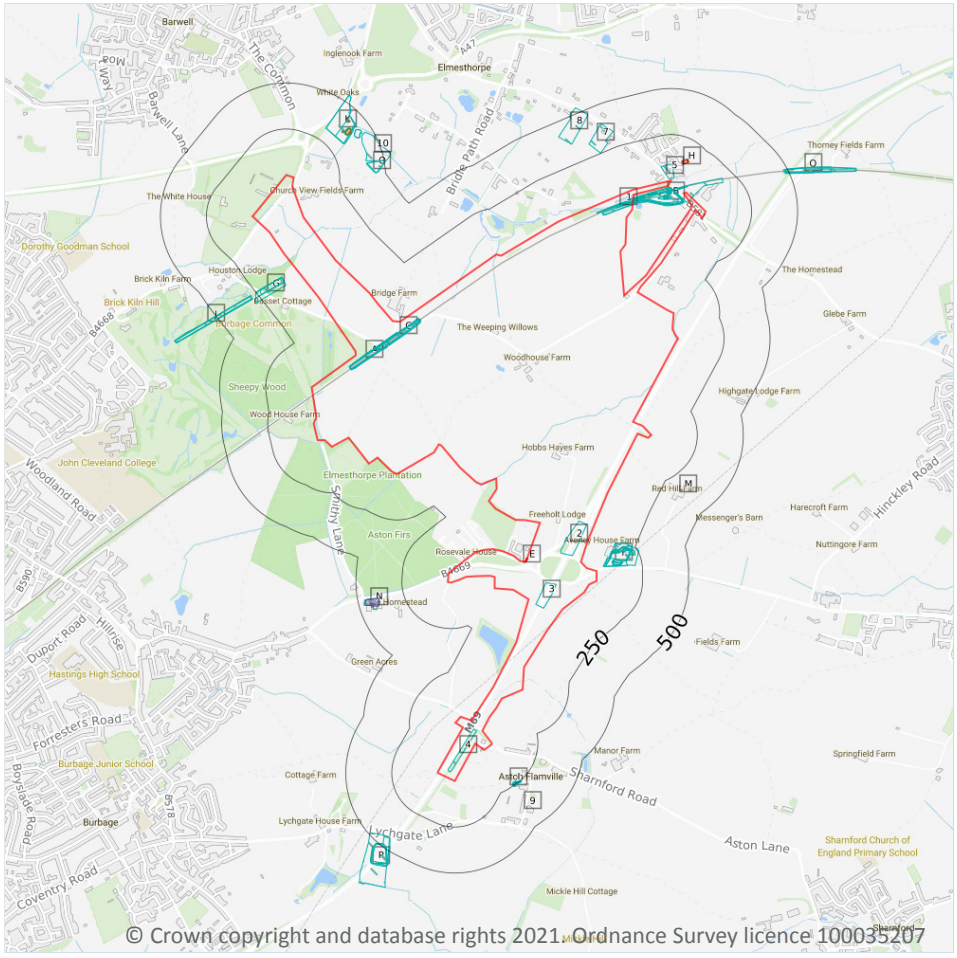
1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m	82

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 17**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Railway Sidings**	**1886**	**1823913**
2	**On site**	**Cuttings**	**1978**	**1751943**
3	**On site**	**Cuttings**	**1978**	**1751945**

ID	Location	Land Use	Date	Group ID
4	**On site**	**Unspecified Heap**	**1978**	**1756518**
A	**On site**	**Cuttings**	**1886**	**1797885**
A	**On site**	**Cuttings**	**1950**	**1833277**
A	**On site**	**Cuttings**	**1968**	**1845523**
A	**On site**	**Cuttings**	**1978**	**1845523**
A	**On site**	**Cuttings**	**1904**	**1797885**
B	**On site**	**Railway Sidings**	**1886**	**1798036**
B	**On site**	**Railway Sidings**	**1904**	**1798036**
B	**On site**	**Railway Sidings**	**1886**	**1817165**
B	**On site**	**Railway Sidings**	**1950**	**1847486**
B	**On site**	**Railway Sidings**	**1968**	**1787608**
B	**On site**	**Railway Sidings**	**1978**	**1787608**
C	**On site**	**Cuttings**	**1886**	**1835469**
C	**On site**	**Cuttings**	**1950**	**1833437**
C	**On site**	**Cuttings**	**1904**	**1833437**
D	**On site**	**Cuttings**	**1950**	**1844783**
D	**On site**	**Cuttings**	**1968**	**1836081**
D	**On site**	**Cuttings**	**1978**	**1836081**
D	**On site**	**Cuttings**	**1886**	**1785611**
5	11m N	Unspecified Factory	1978	1765610
B	13m S	Railway Station	1886	1789656
B	15m S	Railway Station	1886	1821683
B	19m S	Railway Station	1904	1830817
B	23m S	Railway Station	1950	1830817
B	24m S	Railway Station	1968	1849908
B	24m S	Railway Station	1978	1849908
6	28m N	Railway Sidings	1886	1823032
B	44m S	Railway Building	1886	1793487

ID	Location	Land Use	Date	Group ID
B	45m S	Railway Building	1968	1836772
B	45m S	Railway Building	1978	1836772
F	45m NE	Brick Works	1886	1843385
B	46m S	Railway Building	1886	1793487
F	46m NE	Brick Works	1886	1843385
B	49m S	Railway Building	1904	1810489
B	52m S	Railway Building	1950	1810489
F	60m NE	Unspecified Ground Workings	1886	1754834
G	87m SW	Rifle Range	1886	1843103
G	89m SW	Rifle Range	1904	1847243
B	93m S	Railway Building	1950	1764935
F	95m E	Unspecified Ground Workings	1886	1821901
F	97m E	Unspecified Pit	1886	1781253
F	98m NE	Sand Pit	1886	1753411
G	98m SW	Rifle Range	1886	1838814
F	101m E	Unspecified Ground Workings	1904	1821901
F	101m E	Unspecified Pit	1950	1847226
F	130m NE	Refuse Heap	1950	1805420
F	131m NE	Refuse Heap	1904	1805420
F	142m E	Unspecified Kiln	1886	1806292
F	145m E	Unspecified Kiln	1886	1806292
I	235m SE	Unspecified Ground Workings	1950	1830229
I	237m SE	Unspecified Pit	1886	1777096
I	238m SE	Unspecified Ground Workings	1904	1830229
7	252m NW	Nursery	1978	1772195
J	284m SW	Rifle Range	1886	1795053
J	286m SW	Rifle Range	1901	1791754
J	286m SW	Rifle Range	1923	1791754

ID	Location	Land Use	Date	Group ID
J	286m SW	Rifle Range	1938	1791754
K	318m NE	Unspecified Works	1968	1771291
K	318m NE	Sewage Works	1978	1803867
L	320m NE	Sewage Works	1950	1791785
8	358m NW	Nursery	1978	1772196
L	366m NE	Unspecified Tanks	1968	1812221
L	366m NE	Unspecified Tanks	1978	1812221
L	368m NE	Unspecified Tanks	1950	1782280
N	388m W	Garage	1968	1780309
L	402m NE	Unspecified Heaps	1968	1782777
L	402m NE	Unspecified Heaps	1978	1782777
10	402m E	Unspecified Pit	1904	1793866
O	404m E	Unspecified Pit	1886	1793866
O	409m E	Unspecified Pit	1886	1846307
P	439m SW	Brick Works	1886	1764158
P	440m SW	Bricks Works	1904	1778984
Q	476m NE	Cuttings	1886	1811074
Q	480m NE	Cuttings	1950	1848976
R	485m NE	Cuttings	1904	1809968
R	485m NE	Cuttings	1886	1830544
P	486m SW	Unspecified Pit	1886	1783058
P	487m SW	Unspecified Pit	1904	1830150
P	496m SW	Unspecified Pit	1950	1830150

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	8

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. 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 17**

ID	Location	Land Use	Date	Group ID
B	35m S	Unspecified Tank	1962	283217
M	334m SE	Unspecified Tank	1983	294224
M	335m SE	Unspecified Tank	1994	294224
L	360m NE	Tanks	1972	287068
L	371m NE	Tanks	1962	287069
9	385m SE	Unspecified Tank	1963	283230
L	388m NE	Unspecified Tank	1972	283183
K	418m NE	Tanks	1972	287071

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	4

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. 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 17**

ID	Location	Land Use	Date	Group ID
E	**On site**	**Electricity Substation**	**1996**	**174847**
E	**On site**	**Electricity Substation**	**1983**	**174847**
H	108m NE	Electricity Substation	1984	175660
H	135m NE	Electricity Substation	1994	177899

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	2

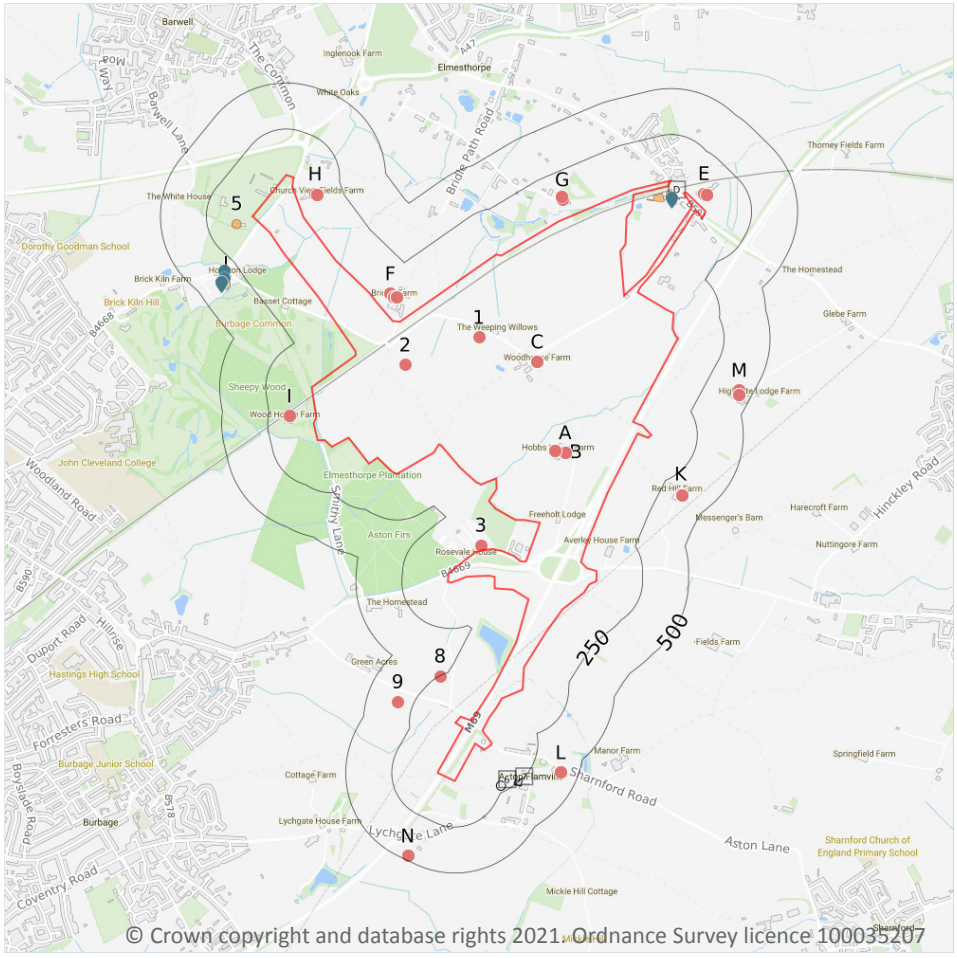
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 17**

ID	Location	Land Use	Date	Group ID
N	385m W	Garage	1992	55248
N	418m W	Garage	1963	57455

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Historical waste sites

Licensed waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	2

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 23**

ID	Location	Details		
6	190m SE	Site Address: Off Lychgate Lane/Burbage Lane, Aston Flamville, Blaby, Leicestershire Licence Holder Address: -	Waste Licence: - Site Reference: 344 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: K T Waste Disposal Licence Holder: - First Recorded 31/12/1989 Last Recorded: 31/12/1990
7	235m SE	Site Address: Off Lychgate Lane, Aston Flamville, Blaby Licence Holder Address: -	Waste Licence: - Site Reference: GDO 282, 49SE Waste Type: Inert, Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Mr and Mrs Morris Licence Holder: - First Recorded 31/12/1935 Last Recorded: 31/12/1960

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

3.5 Historical waste sites

Records within 500m	4

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 23**

ID	Location	Address	Further Details	Date
D	29m S	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1994
4	30m S	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1994
5	71m SW	Site Address: Hinckley Golf Course, Leicester Road, Hinckley, Leicestershire, LE10 3DR	Type of Site: Landfill Works Planning application reference: 13/00073/C Description: Scheme comprises deposit of inert material to remodel and improve the land form of the second green and practice ground (County Council Identity Number: 2013/CM/0024/LCC). Data source: Historic Planning Application Data Type: Point	21/02/2013
J	329m SW	Site Address: Lynden Lea, Leicester Road, HINCKLEY, Leicestershire, LE10 3DR	Type of Site: Waste Transfer Station Planning application reference: 09/00466/C Description: Scheme comprises partially retrospective application to consolidate premises including demolition of a residential unit and the regularisation of buildings and bunkers county council id number 2009/c072/04. An application (ref: 09/00466/C) for detailed p lanning permission was submitted to Hinckley & Bosworth B.C. 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	**6**

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

Features are displayed on the Waste and landfill map on **page 23**

ID	Location	Details		
D	76m SW	Site Name: Barrie Mills Motor Salvage Site Address: Barrie Mills Motor Salvage, Station Yard, Elmesthorpe, Leicester, Leicestershire, LE9 7SG Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MIL002 EPR reference: EA/EPR/ZP3293CL/A001 Operator: Mills Barrie Waste Management licence No: 43318 Annual Tonnage: 5000	Issue Date: 16/08/1993 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
J	329m SW	Site Name: Lynden Lea Site Address: Lyndon Lea, Leicester Road, Hinckley, Leicestershire, LE10 3DR Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MEG002 EPR reference: EA/EPR/WP3793CH/A001 Operator: M & E & G Taylor Waste Management licence No: 43363 Annual Tonnage: 24999	Issue Date: 08/07/1993 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
J	351m SW	Site Name: M A C Skip Hire Limited Site Address: M A C Skip Hire Limited, Leicester Road, Hinckley, Leicester, Leicestershire, LE10 3DR Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ETM001 EPR reference: EA/EPR/HB3009HT/T001 Operator: M A C Skip Hire Limited Waste Management licence No: 43716 Annual Tonnage: 74999	Issue Date: 12/02/2007 Effective Date: 15/02/2019 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
J	378m SW	Site Name: - Site Address: Leicester Road, Hinckley, Leicester, Leicestershire, LE10 3DR Correspondence Address: Highway House, Hinckley Road, Wolvey, Leicester, Leicestershire, LE10 3HQ	Type of Site: - Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ETA002 EPR reference: - Operator: E Taylor Skip Hire And Recycling Limited Waste Management licence No: 43716 Annual Tonnage: 0	Issue Date: 12/02/2007 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
J	378m SW	Site Name: 16.04.08 Site Address: Leicester Road, Hinckley, Leicester, Leicestershire, LE10 3DR Correspondence Address: Highway House, Hinckley Road, Wolvey, Leicester, Leicestershire, LE10 3HQ	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ETA002 EPR reference: - Operator: E Taylor Skip Hire And Recycling Limited Waste Management licence No: 43716 Annual Tonnage: 0	Issue Date: 12/02/2007 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
J	378m SW	Site Name: E Taylor Skip Hire & Recycling Ltd Site Address: Lynden Lea, Leicester Road, Hinckley, Leicester, Leicestershire, LE10 3DR Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ETA002 EPR reference: EA/EPR/DP3190CY/A001 Operator: E Taylor Skip Hire & Recycling Ltd Waste Management licence No: 43716 Annual Tonnage: 74999	Issue Date: 12/02/2007 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 **164**

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 23**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	**On site**	**BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE**	**WEX100898**	**Storing waste exemption**	**On a farm**	**Storage of sludge**

ID	Location	Site	Reference	Category	Sub-Category	Description
2	On site	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX100962	Storing waste exemption	On a farm	Storage of sludge
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX185126	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX185126	Disposing of waste exemption	On a farm	Burning waste in the open
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX185126	Storing waste exemption	On a farm	Storage of waste in a secure place
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX185126	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX185126	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX185126	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX199330	Storing waste exemption	On a Farm	Storage of waste in a secure place
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX199330	Disposing of waste exemption	On a Farm	Burning waste in the open
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX199330	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX199330	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX199330	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX199330	Using waste exemption	On a Farm	Use of waste in construction
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX027509	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX027509	Disposing of waste exemption	On a farm	Burning waste in the open
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX027509	Storing waste exemption	On a farm	Storage of waste in a secure place
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX027509	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX027509	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	On site	HOBBS HAYES FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX027509	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
A	On site	Hobbs Hayes Farm Hinckley Road LEICESTER LE9 4LH	EPR/EE5380PA/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	Hobbs Hayes Farm Hinckley Road LEICESTER LE9 4LH	EPR/EE5380PA/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
A	On site	Hobbs Hayes Farm Hinckley Road LEICESTER LE9 4LH	EPR/EE5380PA/A001	Storing waste exemption	Both agricultural and non-agricultural waste	Storage of waste in a secure place
A	On site	Hobbs Hayes Farm Hinckley Road LEICESTER LE9 4LH	EPR/EE5380PA/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	On site	Hobbs Hayes Farm Hinckley Road LEICESTER LE9 4LH	EPR/EE5380PA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance
B	On site	HOBBS HAYES FARM, THE BARN, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX048242	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	On site	HOBBS HAYES FARM, THE BARN, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX048242	Disposing of waste exemption	On a farm	Burning waste in the open
B	On site	HOBBS HAYES FARM, THE BARN, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX048242	Storing waste exemption	On a farm	Storage of waste in a secure place
B	On site	HOBBS HAYES FARM, THE BARN, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX048242	Using waste exemption	On a farm	Use of waste in construction
B	On site	HOBBS HAYES FARM, THE BARN, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX048242	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	On site	HOBBS HAYES FARM, THE BARN, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX048242	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance

ID	Location	Site	Reference	Category	Sub-Category	Description
B	On site	Hobbs Hayes Farm Hinckley Road LEICESTER LE9 4LH	EPR/DF0133GS/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
B	On site	Hobbs Hayes Farm Hinckley Road LEICESTER LE9 4LH	EPR/DF0133GS/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in a secure place
B	On site	Hobbs Hayes Farm Hinckley Road LEICESTER LE9 4LH	EPR/DF0133GS/A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	On site	Hobbs Hayes Farm Hinckley Road LEICESTER LE9 4LH	EPR/DF0133GS/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
B	On site	Hobbs Hayes Farm Hinckley Road LEICESTER LE9 4LH	EPR/DF0133GS/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
B	On site	Hobbs Hayes Farm Hinckley Road LEICESTER LE9 4LH	EPR/DF0133GS/A001	Using waste exemption	Agricultural Waste Only	Burning of waste as a fuel in a small appliance
C	On site	1 WOODHOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX048733	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
C	On site	1 WOODHOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX048733	Disposing of waste exemption	On a farm	Depositing samples of waste for the purposes of testing or analysing them
C	On site	1 WOODHOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX048733	Disposing of waste exemption	On a farm	Disposal by incineration
C	On site	1 WOODHOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX048733	Disposing of waste exemption	On a farm	Burning waste in the open
C	On site	1 WOODHOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX048733	Disposing of waste exemption	On a farm	Burning waste at a port under a Plant Health notice

ID	Location	Site	Reference	Category	Sub-Category	Description
C	**On site**	**1 WOODHOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE**	**WEX048733**	**Storing waste exemption**	**On a farm**	**Storage of waste in a secure place**
C	**On site**	**1 WOODHOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE**	**WEX048733**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
C	**On site**	**1 WOODHOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE**	**WEX048733**	**Using waste exemption**	**On a farm**	**Use of waste in construction**
C	**On site**	**1 WOODHOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE**	**WEX048733**	**Using waste exemption**	**On a farm**	**Spreading waste on agricultural land to confer benefit**
C	**On site**	**1 WOODHOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE**	**WEX048733**	**Using waste exemption**	**On a farm**	**Use of mulch**
C	**On site**	**1 WOODHOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE**	**WEX048733**	**Using waste exemption**	**On a farm**	**Spreading of plant matter to confer benefit**
C	**On site**	**1 WOODHOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE**	**WEX048733**	**Using waste exemption**	**On a farm**	**Incorporation of ash into soil**
C	**On site**	**1 WOODHOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE**	**WEX048733**	**Using waste exemption**	**On a farm**	**Pig and poultry ash**
C	**On site**	**1 WOODHOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE**	**WEX048733**	**Using waste exemption**	**On a farm**	**Use of waste for a specified purpose**
3	26m N	White Gate Stables Lane (Off Smithy Lane) Leics LE9 4LH	EPR/RE5543TW/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
E	60m NE	Home Farm Station Road Leicester Leicestershire LE9 7SG	EPR/XH0614YX/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
E	60m NE	Home Farm Station Road Leicester Leicestershire LE9 7SG	EPR/XH0614YX/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
E	60m NE	Home Farm Station Road Leicester Leicestershire LE9 7SG	EPR/XH0614YX/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
E	65m NE	HOME FARM, STATION ROAD, ELMESTHORPE, LEICESTER, LE9 7SG	WEX190157	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
E	65m NE	HOME FARM, STATION ROAD, ELMESTHORPE, LEICESTER, LE9 7SG	WEX190157	Disposing of waste exemption	On a Farm	Burning waste in the open
E	65m NE	HOME FARM, STATION ROAD, ELMESTHORPE, LEICESTER, LE9 7SG	WEX022430	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
E	65m NE	HOME FARM, STATION ROAD, ELMESTHORPE, LEICESTER, LE9 7SG	WEX022430	Disposing of waste exemption	On a farm	Burning waste in the open
E	65m NE	HOME FARM, STATION ROAD, ELMESTHORPE, LEICESTER, LE9 7SG	WEX022430	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	85m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX190068	Using waste exemption	On a Farm	Use of waste for a specified purpose
F	85m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX190068	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
F	85m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX190068	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment
F	85m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX181374	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
F	85m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX181374	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
F	85m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX181374	Treating waste exemption	On a farm	Recovery of scrap metal
F	85m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX181374	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
F	85m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX181374	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
F	85m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX181374	Storing waste exemption	On a farm	Storage of sludge
F	85m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX181374	Storing waste exemption	On a farm	Storage of waste in a secure place
F	85m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX181374	Using waste exemption	On a farm	Use of waste in construction
F	85m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX181374	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	85m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX113152	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	85m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX113152	Using waste exemption	On a farm	Use of waste for a specified purpose
F	88m NE	Bridge Farm Burbage Common Road LEICESTER LE9 7SE	EPR/UH0678FJ /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
F	88m NE	Bridge Farm Burbage Common Road LEICESTER LE9 7SE	EPR/UH0678FJ /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
F	88m NE	Bridge Farm Burbage Common Road LEICESTER LE9 7SE	EPR/UH0678FJ /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	88m NE	Bridge Farm Burbage Common Road LEICESTER LE9 7SE	EPR/UH0678FJ /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Recovery of scrap metal
F	88m NE	Bridge Farm Burbage Common Road LEICESTER LE9 7SE	EPR/UH0678FJ /A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
F	88m NE	Bridge Farm Burbage Common Road LEICESTER LE9 7SE	EPR/UH0678FJ /A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit
F	88m NE	Bridge Farm Burbage Common Road LEICESTER LE9 7SE	EPR/UH0678FJ /A001	Using waste exemption	Both agricultural and non-agricultural waste	Incorporation of ash into soil
F	88m NE	Bridge Farm Burbage Common Road LEICESTER LE9 7SE	EPR/UH0678FJ /A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance
F	88m NE	Bridge Farm Burbage Common Road LEICESTER LE9 7SE	EPR/UH0678FJ /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
F	88m NE	Bridge Farm Burbage Common Road LEICESTER LE9 7SE	EPR/UH0678FJ /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
F	88m NE	Bridge Farm Burbage Common Road LEICESTER LE9 7SE	EPR/UH0678FJ /A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
F	88m NE	Bridge Farm Burbage Common Road LEICESTER LE9 7SE	EPR/UH0678FJ /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
F	96m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX021369	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
F	96m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX021369	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
F	96m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX021369	Disposing of waste exemption	On a farm	Burning waste in the open
F	96m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX021369	Storing waste exemption	On a farm	Storage of sludge
F	96m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX021369	Treating waste exemption	On a farm	Sorting and de-naturing of controlled drugs for disposal
F	96m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX021369	Treating waste exemption	On a farm	Treatment of waste in a biobed or biofilter
F	96m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX021369	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	96m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX021369	Treating waste exemption	On a farm	Recovery of scrap metal
F	96m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX021369	Using waste exemption	On a farm	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
F	96m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX021369	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	96m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX021369	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
F	96m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX021369	Using waste exemption	On a farm	Incorporation of ash into soil
F	96m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX021369	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
F	96m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX021369	Using waste exemption	On a farm	Use of waste for a specified purpose
F	96m NE	BRIDGE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTER, LE9 7SE	WEX017181	Using waste exemption	On a farm	Use of waste for a specified purpose
G	97m NW	21 Billington Road East LEICESTER LE9 7SB	EPR/VH0479ZW/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
H	101m E	Church View Fields Farm Leicester Road LEICESTER LE9 8BB	EPR/JE5249PF/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
H	101m E	Church View Fields Farm Leicester Road LEICESTER LE9 8BB	EPR/JE5249PF/A001	Using waste exemption	Non-Agricultural Waste Only	Use of mulch
H	109m E	CHURCH VIEW FIELDS FARM, LEICESTER ROAD, BARWELL, LEICESTER, LE9 8BB	WEX233930	Storing waste exemption	Not on a farm	Storage of waste in secure containers
H	109m E	CHURCH VIEW FIELDS FARM, LEICESTER ROAD, BARWELL, LEICESTER, LE9 8BB	WEX233930	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

ID	Location	Site	Reference	Category	Sub-Category	Description
H	109m E	CHURCH VIEW FIELDS FARM, LEICESTER ROAD, BARWELL, LEICESTER, LE9 8BB	WEX233930	Using waste exemption	Not on a farm	Use of mulch
H	109m E	CHURCH VIEW FIELDS FARM, LEICESTER ROAD, BARWELL, LEICESTER, LE9 8BB	WEX090631	Storing waste exemption	Not on a farm	Storage of waste in secure containers
H	109m E	CHURCH VIEW FIELDS FARM, LEICESTER ROAD, BARWELL, LEICESTER, LE9 8BB	WEX090631	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
H	109m E	CHURCH VIEW FIELDS FARM, LEICESTER ROAD, BARWELL, LEICESTER, LE9 8BB	WEX090631	Using waste exemption	Not on a farm	Use of mulch
G	116m NW	21, BILLINGTON ROAD EAST, ELMESTHORPE, LEICESTER, LE9 7SB	WEX185874	Disposing of waste exemption	On a farm	Burning waste in the open
G	116m NW	21, BILLINGTON ROAD EAST, ELMESTHORPE, LEICESTER, LE9 7SB	WEX027170	Disposing of waste exemption	On a farm	Burning waste in the open
I	138m W	Woodhouse Farm Burbage Common HINCKLEY Leicestershire LE10 3DD	EPR/SE5641CQ/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
I	138m W	Woodhouse Farm Burbage Common HINCKLEY Leicestershire LE10 3DD	EPR/SE5641CQ/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
8	246m NW	GROVE FARM, WOLDS LANE, WOLVEY, HINCKLEY, LE10 3LL	WEX081434	Storing waste exemption	On a farm	Storage of sludge
9	333m W	-	WEX166277	Storing waste exemption	On a farm	Storage of sludge
K	355m SE	Red Hill Farm Hinckley Road LEICESTER LE9 4LH	EPR/MH0279KZ/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
K	355m SE	Red Hill Farm Hinckley Road LEICESTER LE9 4LH	EPR/MH0279KZ/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Disposal by incineration
K	355m SE	Red Hill Farm Hinckley Road LEICESTER LE9 4LH	EPR/MH0279KZ/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
K	355m SE	Red Hill Farm Hinckley Road LEICESTER LE9 4LH	EPR/MH0279KZ/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Aerobic composting and associated prior treatment
K	355m SE	Red Hill Farm Hinckley Road LEICESTER LE9 4LH	EPR/MH0279KZ/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Preparatory treatments (baling, sorting, shredding etc)
K	355m SE	Red Hill Farm Hinckley Road LEICESTER LE9 4LH	EPR/MH0279KZ/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
K	355m SE	Red Hill Farm Hinckley Road LEICESTER LE9 4LH	EPR/MH0279KZ/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
K	355m SE	Red Hill Farm Hinckley Road LEICESTER LE9 4LH	EPR/MH0279KZ/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
K	355m SE	Red Hill Farm Hinckley Road LEICESTER LE9 4LH	EPR/MH0279KZ/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit
K	355m SE	Red Hill Farm Hinckley Road LEICESTER LE9 4LH	EPR/MH0279KZ/A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance

ID	Location	Site	Reference	Category	Sub-Category	Description
K	355m SE	Red Hill Farm Hinckley Road LEICESTER LE9 4LH	EPR/MH0279KZ/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
K	367m SE	RED HILL FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX025692	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
K	367m SE	RED HILL FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX025692	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
K	367m SE	RED HILL FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX025692	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
K	367m SE	RED HILL FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX025692	Using waste exemption	On a farm	Use of waste in construction
K	367m SE	RED HILL FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX025692	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
K	367m SE	RED HILL FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX025692	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
K	367m SE	RED HILL FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX025692	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
K	367m SE	RED HILL FARM, HINCKLEY ROAD, SAPCOTE, LEICESTER, LE9 4LH	WEX025692	Using waste exemption	On a farm	Use of waste for a specified purpose
L	407m E	Manor Farm Sharnford Road Hinckley Leicestershire LE10 3AW	EPR/LH0874XL/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
L	407m E	Manor Farm Sharnford Road Hinckley Leicestershire LE10 3AW	EPR/LH0874XL/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste for a specified purpose
L	407m E	Manor Farm Sharnford Road Hinckley Leicestershire LE10 3AW	EPR/DH0275QS/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

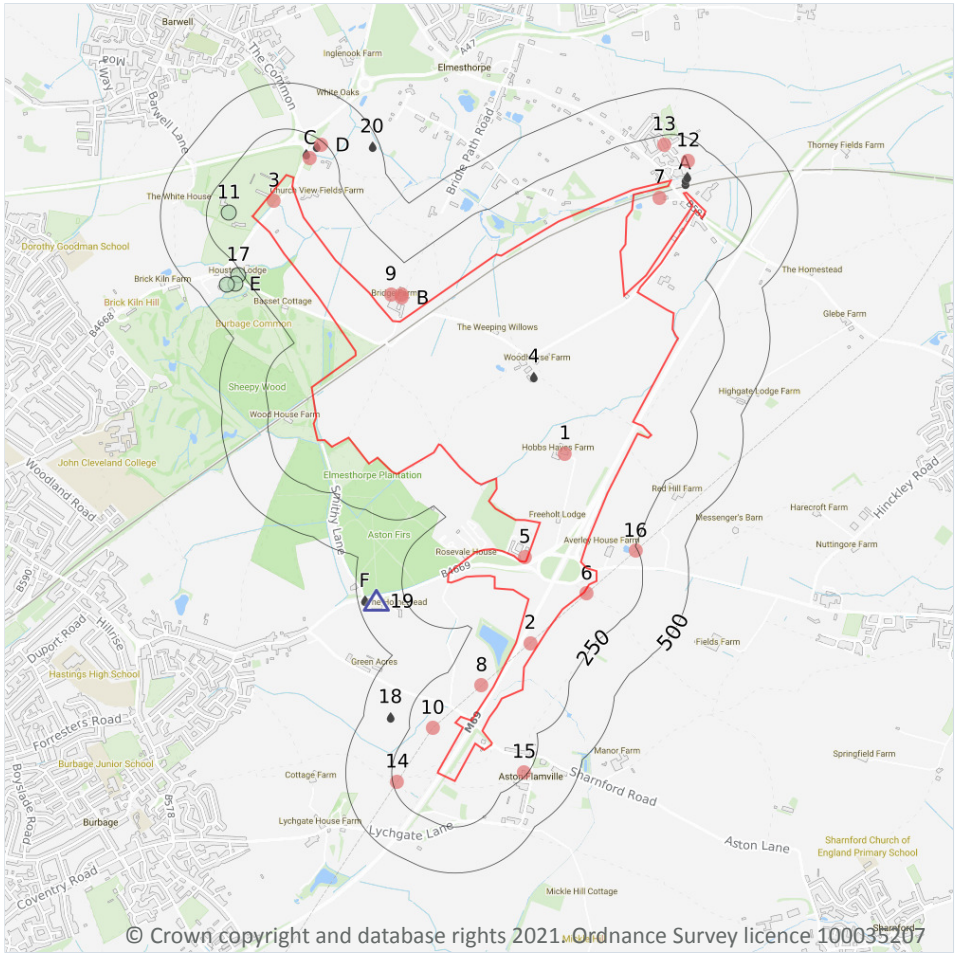
ID	Location	Site	Reference	Category	Sub-Category	Description
M	429m SE	HIGHGATE LODGE FARM, STATION ROAD, STONEY STANTON, LEICESTER, LE9 4LU	WEX093897	Using waste exemption	On a farm	Use of waste in construction
M	429m SE	HIGHGATE LODGE FARM, STATION ROAD, STONEY STANTON, LEICESTER, LE9 4LU	WEX093897	Using waste exemption	On a farm	Use of waste for a specified purpose
M	440m SE	Highgate Lodge Farm Station Road Leicester Leicestershire LE9 4LU	EPR/GH0374UT/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
M	440m SE	Highgate Lodge Farm Station Road Leicester Leicestershire LE9 4LU	EPR/GH0374UT/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
M	440m SE	Highgate Lodge Farm Station Road Leicester Leicestershire LE9 4LU	EPR/GH0374UT/A001	Storing waste exemption	Both agricultural and non-agricultural waste	Storage of waste in secure containers
M	440m SE	Highgate Lodge Farm Station Road Leicester Leicestershire LE9 4LU	EPR/GH0374UT/A001	Storing waste exemption	Both agricultural and non-agricultural waste	Storage of waste in a secure place
M	440m SE	Highgate Lodge Farm Station Road Leicester Leicestershire LE9 4LU	EPR/GH0374UT/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Cleaning, washing, spraying or coating relevant waste
M	440m SE	Highgate Lodge Farm Station Road Leicester Leicestershire LE9 4LU	EPR/GH0374UT/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Aerobic composting and associated prior treatment
M	440m SE	Highgate Lodge Farm Station Road Leicester Leicestershire LE9 4LU	EPR/GH0374UT/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

ID	Location	Site	Reference	Category	Sub-Category	Description
M	440m SE	Highgate Lodge Farm Station Road Leicester Leicestershire LE9 4LU	EPR/GH0374UT/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
M	440m SE	Highgate Lodge Farm Station Road Leicester Leicestershire LE9 4LU	EPR/GH0374UT/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
M	440m SE	Highgate Lodge Farm Station Road Leicester Leicestershire LE9 4LU	EPR/GH0374UT/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit
M	440m SE	Highgate Lodge Farm Station Road Leicester Leicestershire LE9 4LU	EPR/GH0374UT/A001	Using waste exemption	Both agricultural and non-agricultural waste	Incorporation of ash into soil
M	440m SE	Highgate Lodge Farm Station Road Leicester Leicestershire LE9 4LU	EPR/GH0374UT/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
N	481m SW	-	WEX206814	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
N	481m SW	-	WEX206814	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
N	481m SW	-	WEX206814	Disposing of waste exemption	On a Farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
N	481m SW	-	WEX206814	Disposing of waste exemption	On a Farm	Burning waste in the open
N	481m SW	-	WEX055680	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
N	481m SW	-	WEX055680	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
N	481m SW	-	WEX055680	Disposing of waste exemption	On a farm	Burning waste in the open
N	481m SW	-	WEX055680	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
N	481m SW	Field no's 8877, 9044, 4616, 4800 & 1.94 acre field HINCKLEY LE10 2DB	EPR/UE5784KY/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
N	481m SW	Field no's 8877, 9044, 4616, 4800 & 1.94 acre field HINCKLEY LE10 2DB	EPR/UE5784KY/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
N	481m SW	Field no's 8877, 9044, 4616, 4800 & 1.94 acre field HINCKLEY LE10 2DB	EPR/UE5784KY/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
N	481m SW	Field no's 8877, 9044, 4616, 4800 & 1.94 acre field HINCKLEY LE10 2DB	EPR/UE5784KY/A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Current or recent petrol stations

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	18

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 44**

ID	Location	Company	Address	Activity	Category
1	On site	M D & R J Johnson	Hobbs Hayes Farm, Hinckley Road, Sapcote, Leicester, Leicestershire, LE9 4LH	Construction and Tool Hire	Hire Services
2	On site	Pylon	Leicestershire, LE9	Electrical Features	Infrastructure and Facilities
3	On site	Gas Governor	Leicestershire, LE10	Gas Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
5	14m W	Electricity Sub Station	Leicestershire, LE9	Electrical Features	Infrastructure and Facilities
6	15m SE	Pylon	Leicestershire, LE9	Electrical Features	Infrastructure and Facilities
7	49m S	Scrap Yard	Leicestershire, LE9	Scrap Metal Merchants	Recycling Services
8	59m NW	Pylon	Leicestershire, LE10	Electrical Features	Infrastructure and Facilities
9	87m NE	Hebblethwaite Farms	Bridge Farm, Burbage Common Road, Elmesthorpe, Leicester, Leicestershire, LE9 7SE	Livestock Farming	Farming
B	103m NW	Silo	Leicestershire, LE9	Hoppers and Silos	Farming
B	115m NW	Silo	Leicestershire, LE9	Hoppers and Silos	Farming
10	127m W	Pylon	Leicestershire, LE10	Electrical Features	Infrastructure and Facilities
C	137m NE	Brooklyn Conrods	Brooklyn Farm, Leicester Road, Barwell, Leicester, Leicestershire, LE9 8BB	Precision Engineers	Engineering Services
12	143m NE	Electricity Sub Station	Leicestershire, LE9	Electrical Features	Infrastructure and Facilities
13	200m N	Homemade by Linda	3, Lovelace Crescent, Elmesthorpe, Leicester, Leicestershire, LE9 7SL	Baking and Confectionery	Foodstuffs
14	225m W	Pylon	Leicestershire, LE10	Electrical Features	Infrastructure and Facilities
15	232m SE	Warwick Wireless Ltd	The Manor House, Lychgate Lane, Aston Flamville, Hinckley, Leicestershire, LE10 3AQ	Radar and Telecommunications Equipment	Industrial Products
D	233m NE	Pumping Station	Leicestershire, LE10	Water Pumping Stations	Industrial Features
16	238m NE	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	**1**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 44**

ID	Location	Company	Address	LPG	Status
19	405m W	UNBRANDED	Hinckley Road, Sapcote, Hinckley, Leicestershire, LE9 4LH	No	Closed

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	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	12

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

Features are displayed on the Current industrial land use map on **page 44**

ID	Location	Address	Details	
4	**On site**	**WOOD HOUSE FARM, BURBAGE COMMON ROAD, ELMESTHORPE, LEICESTERSHIRE, LE9 7SE**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: T/50/40122/S Permit Version: 1 Receiving Water: TRIB OF THURLASTON BROOK**	**Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 28/03/1995 Effective Date: 28/03/1995 Revocation Date: -**
A	50m N	ELMESTHORPE SEWERAGE - STORM O/F, ELMESTHORPE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/50/00340/O Permit Version: 1 Receiving Water: THURLASTON BROOK (RIVER SOAR)	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 16/04/1956 Effective Date: 16/04/1956 Revocation Date: -
A	50m N	VARIOUS PS'S & CSOS-STONEY STANTON, STONEY STANTON	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/50/03632/O Permit Version: 1 Receiving Water: RIVER SOAR OR TRIBS	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 07/11/1973 Effective Date: 07/11/1973 Revocation Date: 07/08/2018
A	51m N	CORK LANE, GREEN PARVA	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: DT/8057 Permit Version: 1 Receiving Water: RIVER SENCE (SOAR) (TRIBUTARY)	Status: 1961 R(PP)A APPLICATION REFUSED Issue date: 30/05/1963 Effective Date: 30/05/1963 Revocation Date: 01/03/2001

ID	Location	Address	Details	
A	70m N	RES DEV OFF STATION ROAD - SWS, ELMESTHORPE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: T/50/02740/O Permit Version: 1 Receiving Water: THURLASTON BROOK (T RIVER SOAR	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 29/06/1970 Effective Date: 29/06/1970 Revocation Date: 30/03/2000
A	86m N	CSO AT BOSTOCK SPS, BOSTOCK CLOSE, ELMESTHORPE, LEICESTERSHIRE, LE9 7SR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: EPRHB3996RV Permit Version: 1 Receiving Water: TRIBUTARY OF THURLASTON BROOK	Status: VARIED UNDER EPR 2010 Issue date: 09/08/2018 Effective Date: 09/08/2018 Revocation Date: -
C	143m NE	THE COMMON, BARWELL A, LE9 8BB	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TSC1949 Permit Version: 1 Receiving Water: LOCAL DITCH	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 12/08/2011
D	209m NE	THE COMMON, BARWELL, HINCKLEY	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: T/50/03512/O Permit Version: 1 Receiving Water: THURLASTON BROOK (RIVER SOAR)	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 06/04/1973 Effective Date: 06/04/1973 Revocation Date: -
18	355m W	HINCKLEY RD ASTON FLAMVILLE PS, HINCKLEY RD	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TSC3485 Permit Version: 1 Receiving Water: TRIB R SOAR	Status: SURRENDERED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 31/05/2017
20	457m E	COMMON PUMPING STN - STM/EMERG O/F, BARWELL	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: T/50/03182/O Permit Version: 1 Receiving Water: THURLASTON BROOK (R SOAR TRIB)	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 01/05/1972 Effective Date: 01/05/1972 Revocation Date: -
F	464m W	ASTON FIRS PUMPING STATION, ASTON FIRS, SAPCOTE, LEICESTERSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/50/40071/O Permit Version: 1 Receiving Water: TRIB OF THURLASTON BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 23/02/1995 Effective Date: 23/02/1995 Revocation Date: -

ID	Location	Address	Details	
F	464m W	ASTON FIRS PUMPING STATION, ASTON FIRS, SAPCOTE, LEICESTERSHIRE	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: T/50/40071/O Permit Version: 1 Receiving Water: TRIB OF THURLASTON BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 23/02/1995 Effective Date: 23/02/1995 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	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 44**

ID	Location	Details	
11	129m W	Incident Date: 04/12/2007 Incident Identification: 548955 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
17	270m SW	Incident Date: 11/06/2002 Incident Identification: 84271 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	312m SW	Incident Date: 14/08/2002 Incident Identification: 100115 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	350m SW	Incident Date: 21/12/2001 Incident Identification: 49221 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

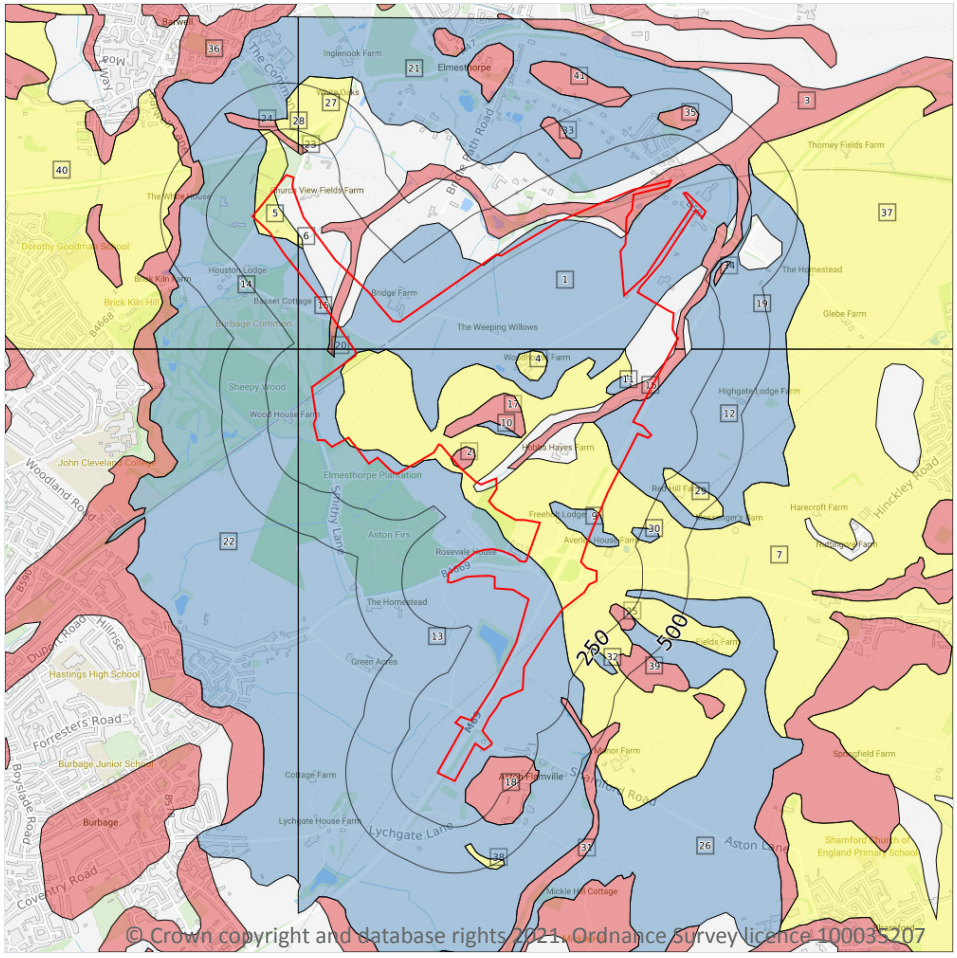
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m	41

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 53**

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

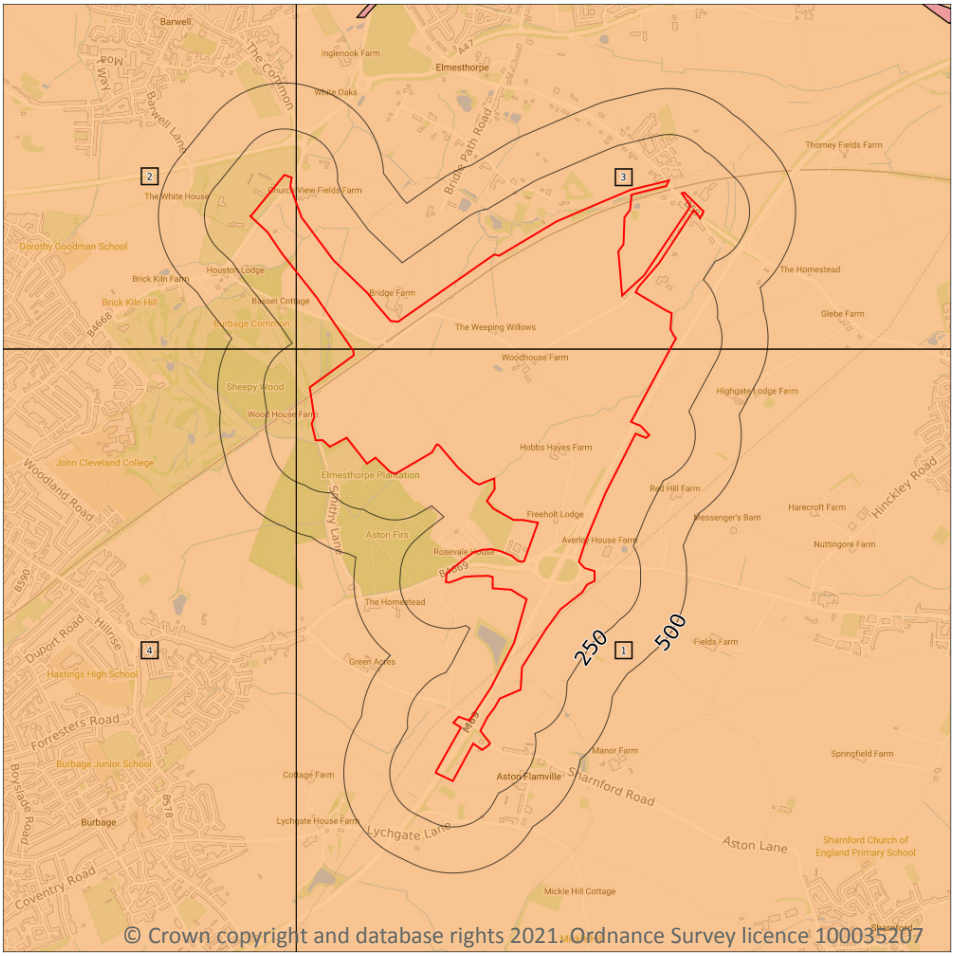
ID	Location	Designation	Description
3	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	On site	Secondary 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
5	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
6	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
7	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
8	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
9	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
10	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
11	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
12	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
13	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
14	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
15	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
16	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
17	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
18	47m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
19	62m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
20	63m NW	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
21	71m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
22	73m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
23	130m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
24	135m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
25	156m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
26	176m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
27	178m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
28	180m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
29	187m SE	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
30	201m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
31	216m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
32	246m SE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
33	270m NW	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
34	270m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
35	282m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
36	318m NW	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
37	326m NE	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
38	351m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
39	380m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
40	400m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
41	454m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

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

5.2 Bedrock aquifer

Records within 500m	4

Aquifer status of groundwater held within bedrock geology.

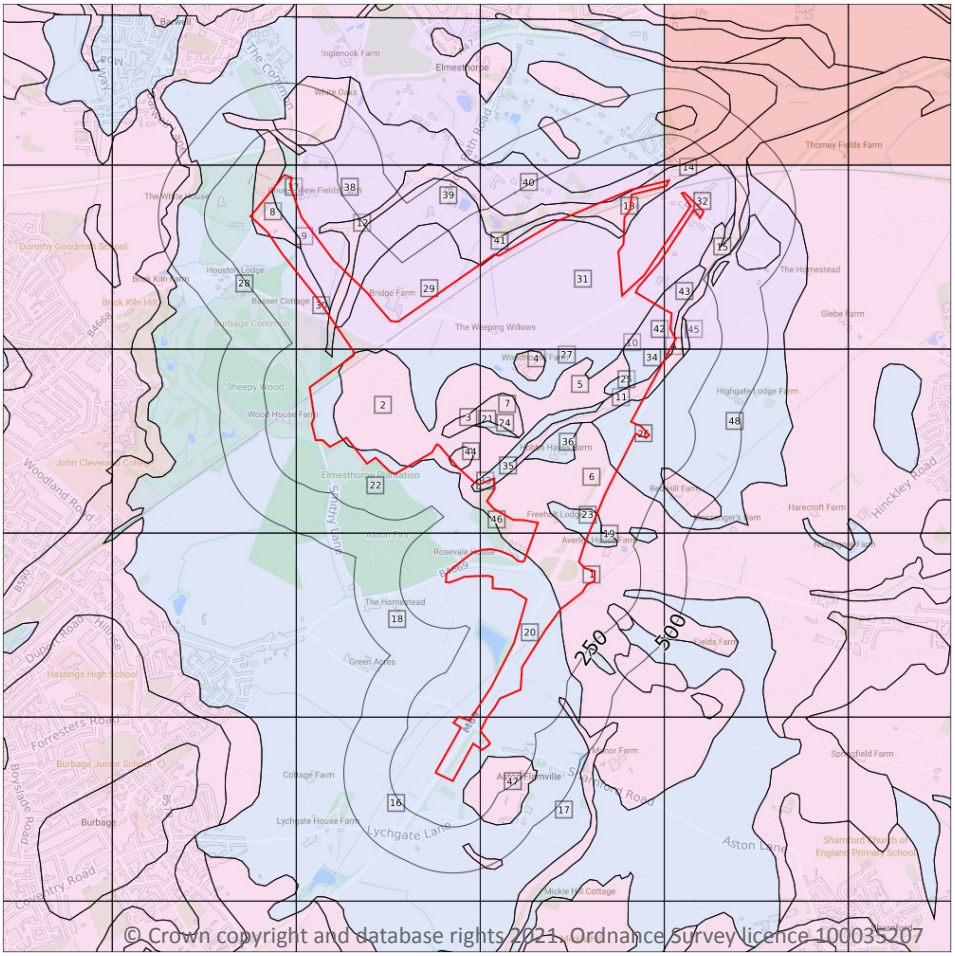
Features are displayed on the Bedrock aquifer map on **page 57**

ID	Location	Designation	Description
1	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers
2	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-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 permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers**
4	73m W	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	50

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 59**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

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

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
17	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
18	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
19	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
20	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
21	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
22	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
23	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
24	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
25	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
26	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
27	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
28	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
36	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
37	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
38	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
39	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
40	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
41	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
42	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
43	**On site**	**Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low**	**Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures**
44	**On site**	**Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year**	**Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**
A	**On site**	**Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year**	**Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**
A	2m SE	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
45	30m E	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
46	45m SW	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
47	47m SE	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
48	47m SE	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low 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**

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.

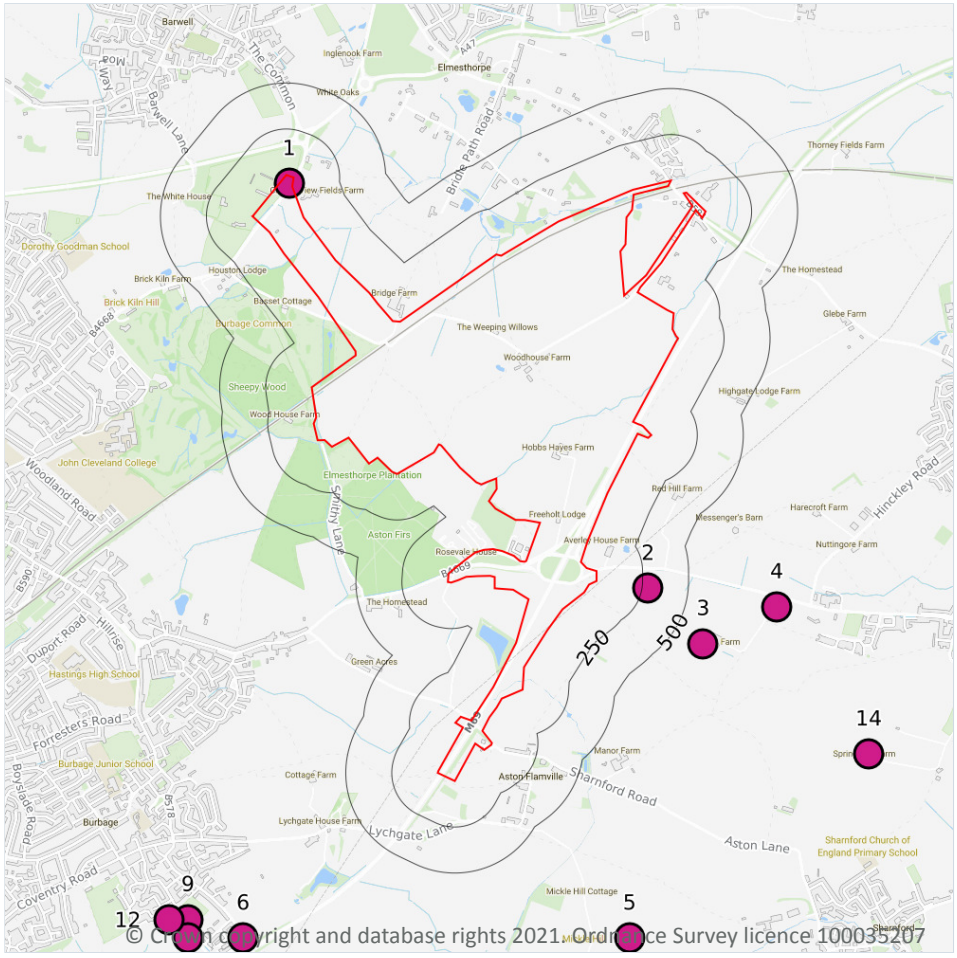
5.5 Groundwater vulnerability- local information

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
- 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	17

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 69**

ID	Location	Details	
1	**On site**	**Status: Historical** **Licence No: 03/28/50/0140** **Details: Spray Irrigation - Storage** **Direct Source: Groundwater Midlands Region** **Point: HINCKLEY UTD FC-BOREHOLE** **Data Type: Point** **Name: HINCKLEY UNITED FOOTBALL CLUB LIMITED** **Easting: 444950** **Northing: 295900**	**Annual Volume (m^3): 20000** **Max Daily Volume (m^3): 108** **Original Application No: -** **Original Start Date: 24/01/2005** **Expiry Date: 31/03/2013** **Issue No: 2** **Version Start Date: 13/03/2005** **Version End Date: -**
2	281m E	Status: Historical Licence No: 03/28/50/0019 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: SAPCOTE FIELDS FARM - WELL(1) Data Type: Point Name: TAYLOR Easting: 446900 Northing: 293700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 29/11/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
3	671m SE	Status: Historical Licence No: 03/28/50/0019 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: SAPCOTE FIELDS FARM - WELL(2) Data Type: Point Name: TAYLOR Easting: 447200 Northing: 293400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 29/11/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
4	988m E	Status: Historical Licence No: 03/28/50/0011 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: BOUNDARY FARM Data Type: Point Name: CLARKE Easting: 447600 Northing: 293600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 03/11/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
5	1276m SE	Status: Historical Licence No: 03/28/50/0060 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: MICKLE HILL Data Type: Point Name: CROSS Easting: 446800 Northing: 291800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -

ID	Location	Details	
6	1387m SW	Status: Historical Licence No: 03/28/50/0058 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: DEEPDALE FARM - WELL (1) Data Type: Point Name: MOORE Easting: 444700 Northing: 291800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
-	1416m SW	Status: Historical Licence No: 03/28/50/0058 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: DEEPDALE FARM - WELL (2) Data Type: Point Name: MOORE Easting: 445000 Northing: 291500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
-	1533m SW	Status: Historical Licence No: 03/28/50/0119 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: GREENLEA FARM - BOREHOLE Data Type: Point Name: PK & J PATERSON Easting: 444800 Northing: 291500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/11/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
9	1574m SW	Status: Historical Licence No: 03/28/50/0120 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: 88 LUTTERWORTH ROAD - WELL (3) Data Type: Point Name: JUDKINS Easting: 444400 Northing: 291900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 04/07/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
-	1612m SW	Status: Historical Licence No: 03/28/50/0119 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: GREENLEA FARM - WELL Data Type: Point Name: PK & J PATERSON Easting: 444800 Northing: 291400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 23/11/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -

ID	Location	Details	
11	1627m SW	Status: Historical Licence No: 03/28/50/0120 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: 88 LUTTERWORTH ROAD - WELL (2) Data Type: Point Name: JUDKINS Easting: 444400 Northing: 291800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 04/07/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
12	1661m SW	Status: Historical Licence No: 03/28/50/0120 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: 88 LUTTERWORTH ROAD - WELL (1) Data Type: Point Name: JUDKINS Easting: 444300 Northing: 291900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 04/07/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
-	1729m W	Status: Historical Licence No: 03/28/19/0027 Details: Spray Irrigation - Direct Direct Source: Groundwater Midlands Region Point: HINCKLEY BOWLING CLUB - BOREHOLE Data Type: Point Name: HINCKLEY BOWLING CLUB Easting: 443400 Northing: 294200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 04/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/01/1966 Version End Date: -
14	1752m SE	Status: Historical Licence No: 03/28/50/0059 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: SPRINGFIELD FARM Data Type: Point Name: FORSTER Easting: 448100 Northing: 292800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -
-	1954m W	Status: Historical Licence No: 03/28/20/0068 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: LOWER SUNNYSIDE FARM, WELL Data Type: Point Name: DENSON Easting: 442800 Northing: 295600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 24/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/02/1966 Version End Date: -

ID	Location	Details	
-	1959m W	Status: Historical Licence No: 03/28/20/0065 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: SUNNYSIDE FARM, HINCKLEY - WELL Data Type: Point Name: J ADCOCK & SONS Easting: 442800 Northing: 295900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 04/03/1965 Expiry Date: - Issue No: 100 Version Start Date: 05/08/1994 Version End Date: -
-	1995m NE	Status: Historical Licence No: 03/28/50/0095 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: MARUNE Data Type: Point Name: JACKSON Easting: 445900 Northing: 297700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 07/04/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2000 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**0**

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

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

5.8 Potable abstractions

Records within 2000m	**0**

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

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

5.9 Source Protection Zones

Records within 500m	0

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

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

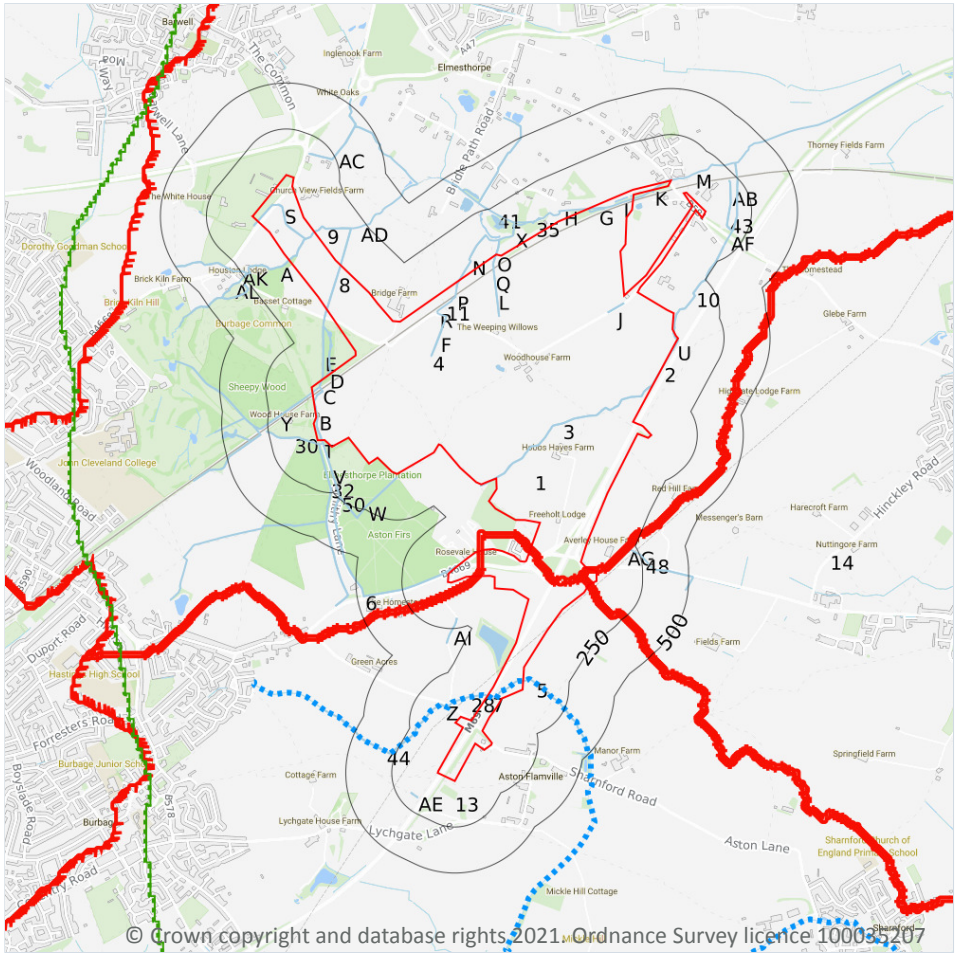
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m	80

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 75**

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

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

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

ID	Location	Type of water feature	Ground level	Permanence	Name
P	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
P	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
Q	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
R	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
R	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
S	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
28	4m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	5m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	5m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	10m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	16m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	16m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	17m 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
30	18m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
32	22m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
35	60m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	60m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	60m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	60m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
X	61m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	63m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	63m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	73m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	75m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	81m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	83m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
Z	86m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	86m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
X	86m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	86m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	107m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	107m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	110m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
41	118m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
43	125m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	126m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	130m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
44	132m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	144m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AC	153m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	170m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	171m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	172m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	174m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AE	176m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	177m SE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
AF	178m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	191m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	194m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
48	214m NE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
AK	225m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	225m SW	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
50	239m SW	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	**49**

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 75**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	**3**

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 75**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
13	**On site**	**River WB catchment**	**Soar Brook from Source to Soar**	**GB104028042590**	**Soar River**	**Soar**
14	**On site**	**River WB catchment**	**Soar from Soar Brook to Thurlaston Brook**	**GB104028042620**	**Soar River**	**Soar**
P	**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	3

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 75**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
12	**On site**	**River**	**Soar Brook from Source to Soar**	**GB104028042590**	**Poor**	**Good**	**Poor**	**2016**
-	1500m N	River	Thurlaston Brook Catchment (trib of Soar)	GB104028046940	Poor	Good	Poor	2016
-	2769m SE	River	Soar from Soar Brook to Thurlaston Brook	GB104028042620	Moderate	Good	Moderate	2016

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

6.5 WFD Groundwater bodies

Records on site	1

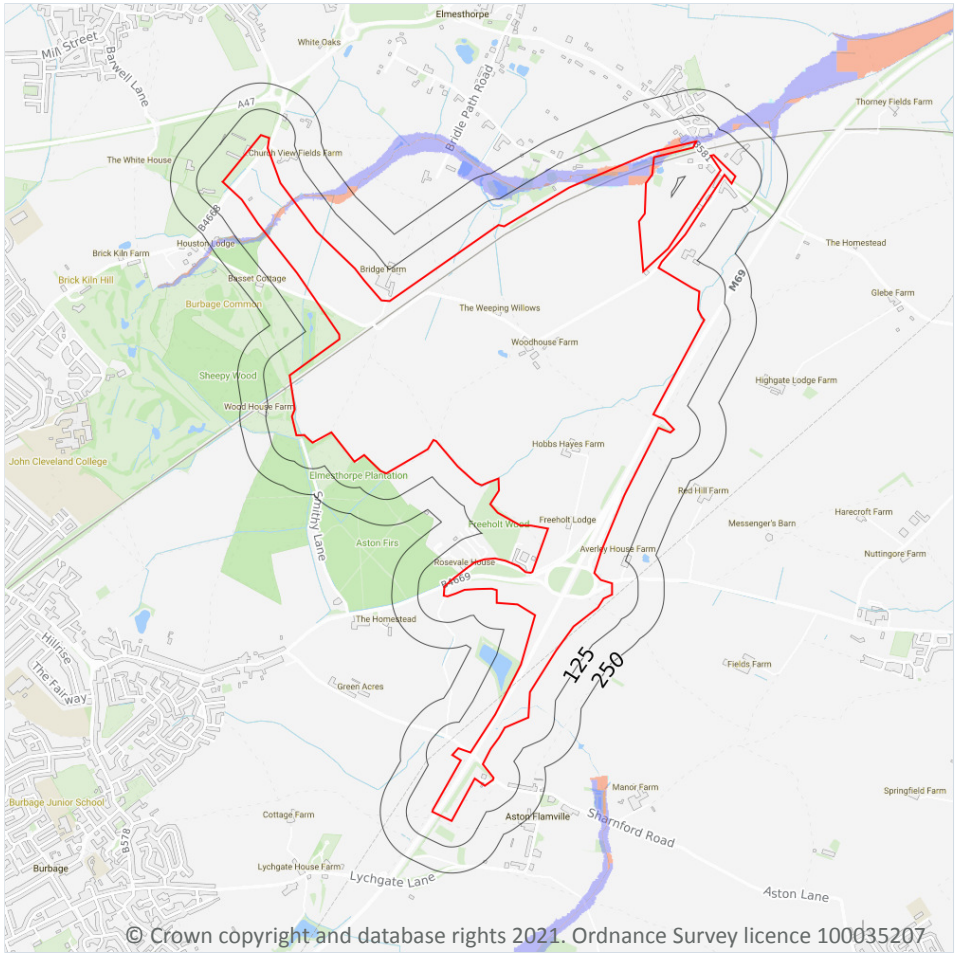
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 75**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	**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



Site Outline

Search buffers in metres (m)

Environment Agency river and coastal flooding:

- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m	42

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).

Features are displayed on the River and coastal flooding map on **page 84**

Distance	RoFRaS flood risk
On site	**High**
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	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.

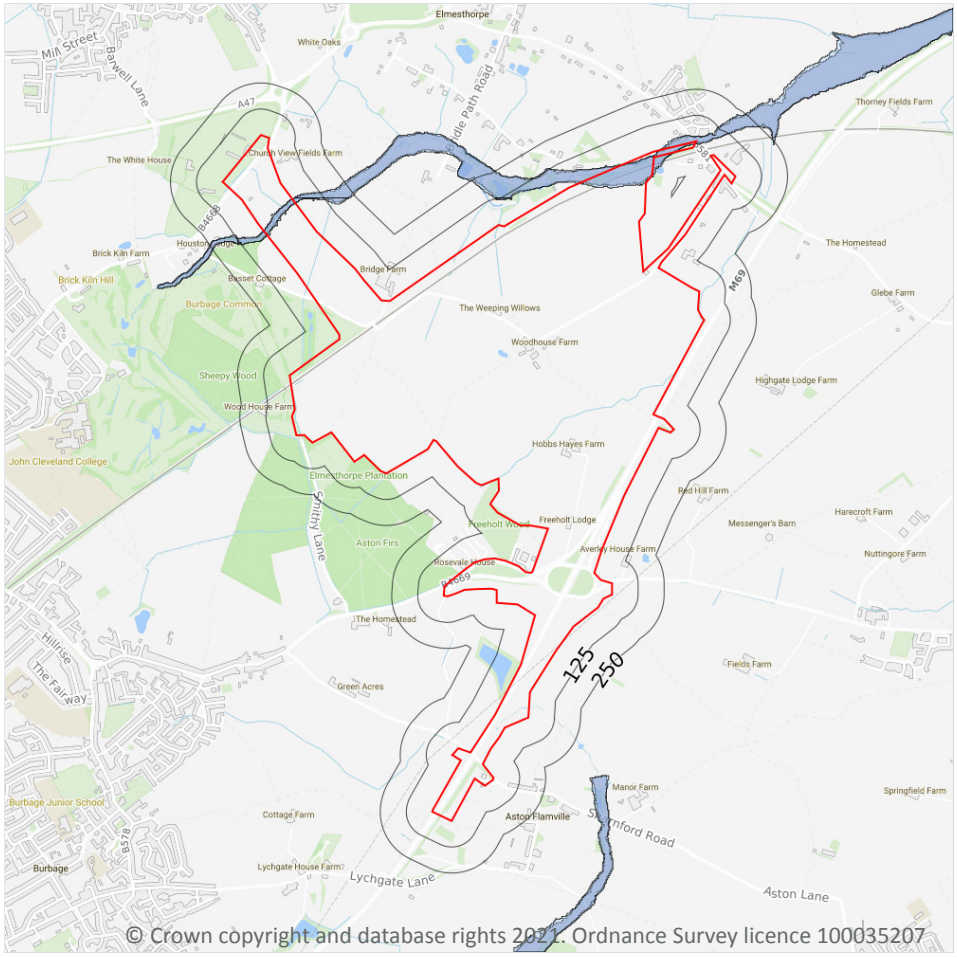
7.5 Flood Storage Areas

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



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

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

Features are displayed on the River and coastal flooding map on **page 84**

Location	Type
On site	**Zone 2 - (Fluvial /Tidal Models)**

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

7.7 Flood Zone 3

Records within 50m	1

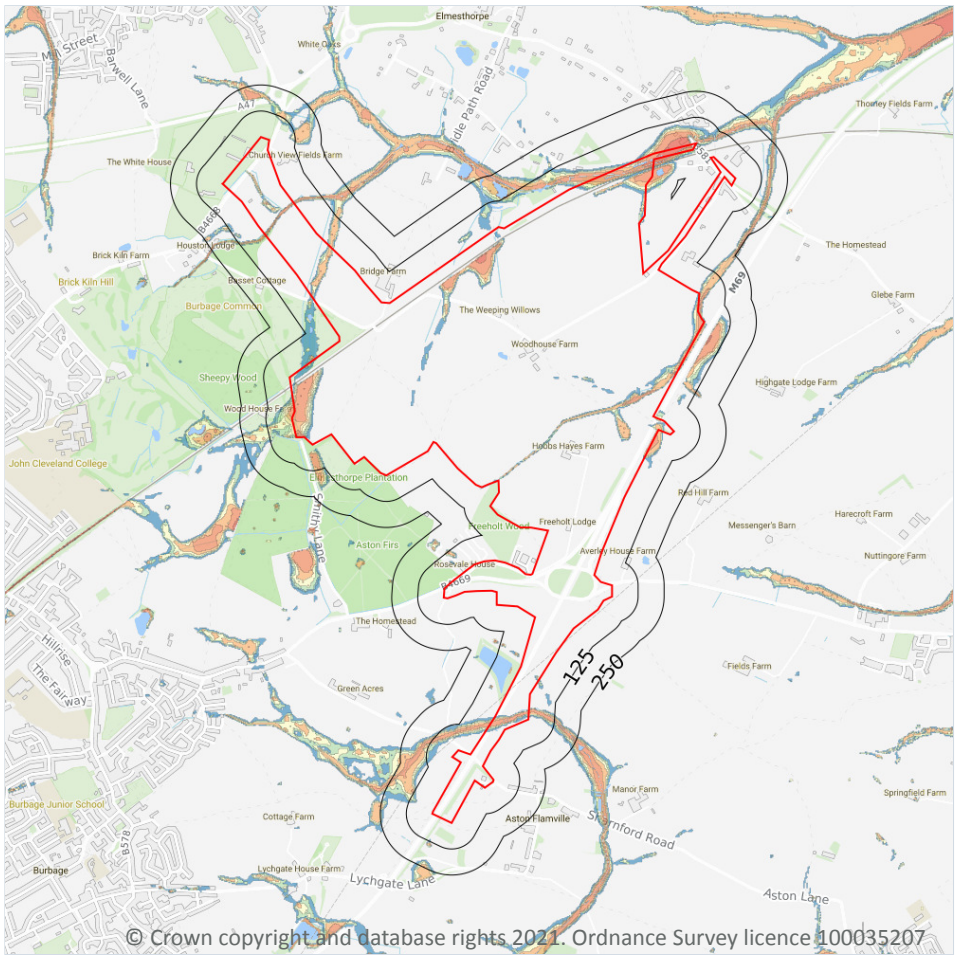
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 84**

Location	Type
On site	**Zone 3 - (Fluvial Models)**

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

8 Surface water flooding



Site Outline

Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site	**1 in 30 year, Greater than 1.0m**
Highest risk within 50m	**1 in 30 year, Greater than 1.0m**

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

Features are displayed on the Surface water flooding map on **page 88**

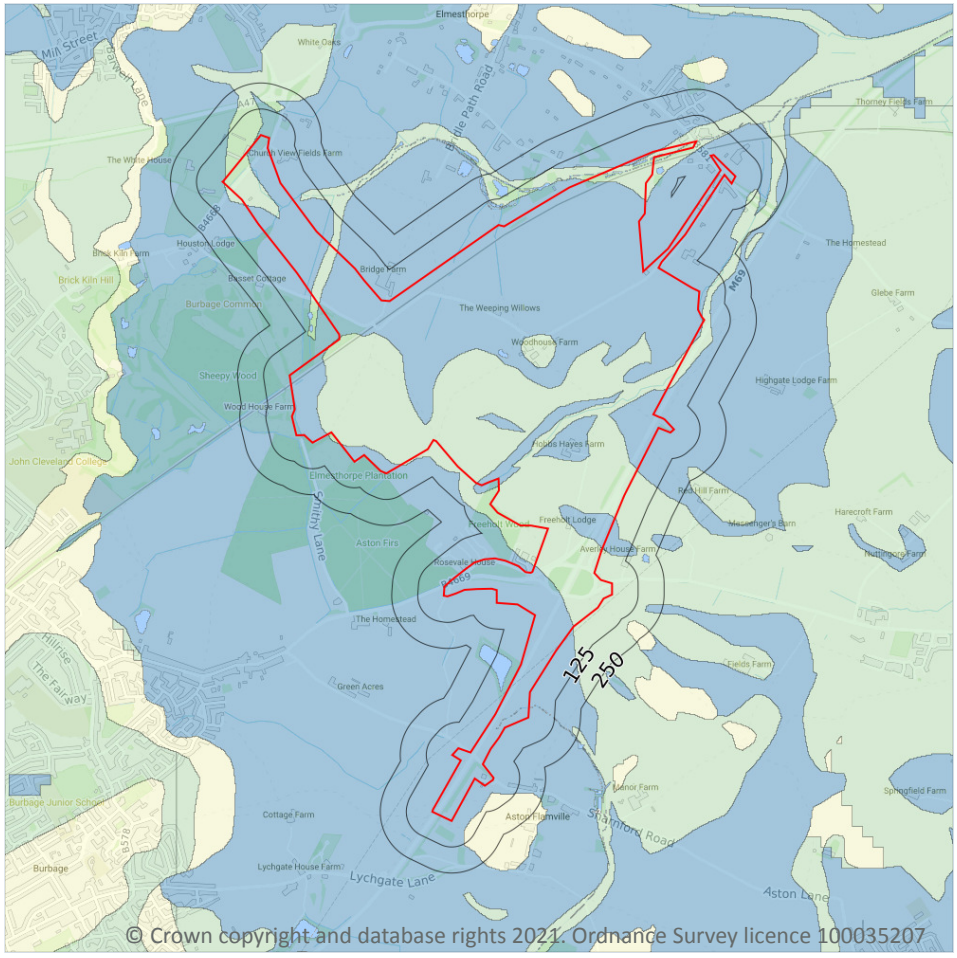
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

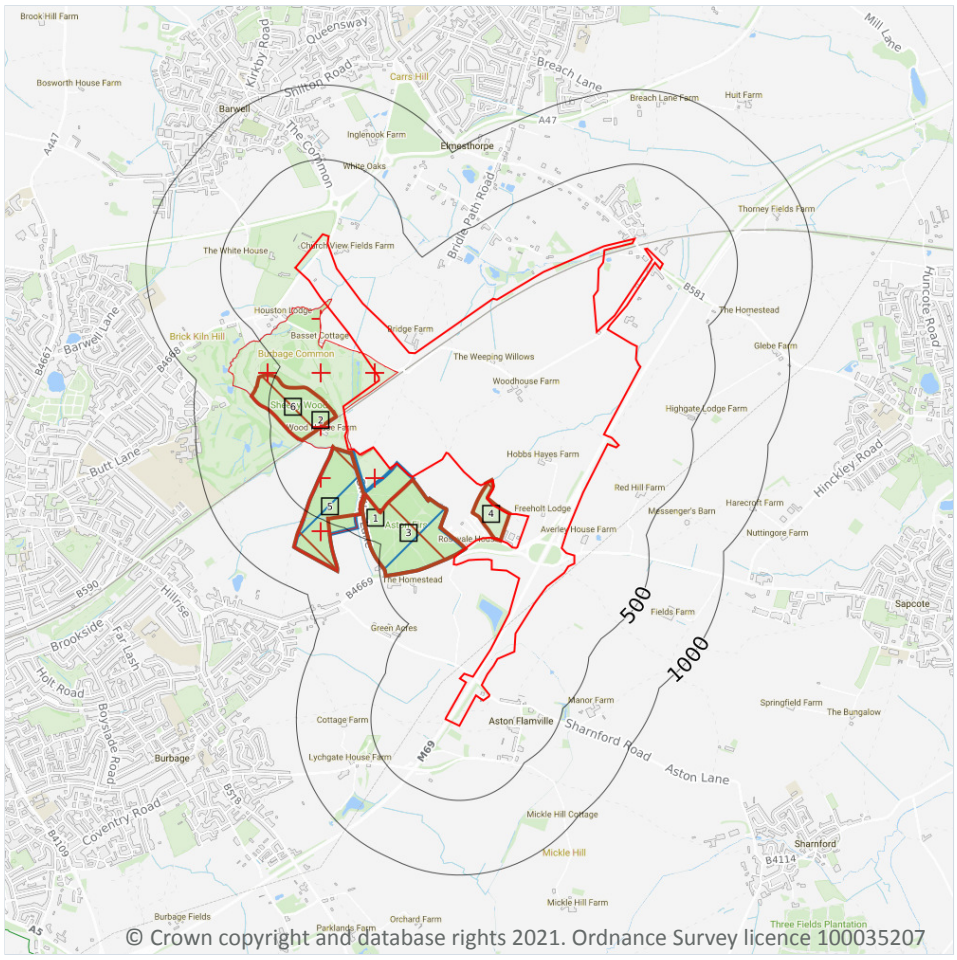
Highest risk on site	**Low**
Highest risk within 50m	**Moderate**

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

Features are displayed on the Groundwater flooding map on **page 90**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Local Nature Reserves (LNR)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 91**

ID	Location	Name	Data source
1	**On site**	**Burbage Wood and Aston Firs**	**Natural England**

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 91**

ID	Location	Name	Data source
2	**On site**	**Burbage Common & Woods**	**Natural England**

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

10.7 Designated Ancient Woodland

Records within 2000m	4

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 91**

ID	Location	Name	Woodland Type
3	**On site**	**Aston Firs**	**Ancient & Semi-Natural Woodland**
4	**On site**	**Freeholt Wood**	**Ancient & Semi-Natural Woodland**
5	19m S	Aston Firs	Ancient & Semi-Natural Woodland
6	57m W	Sheepy Wood	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	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

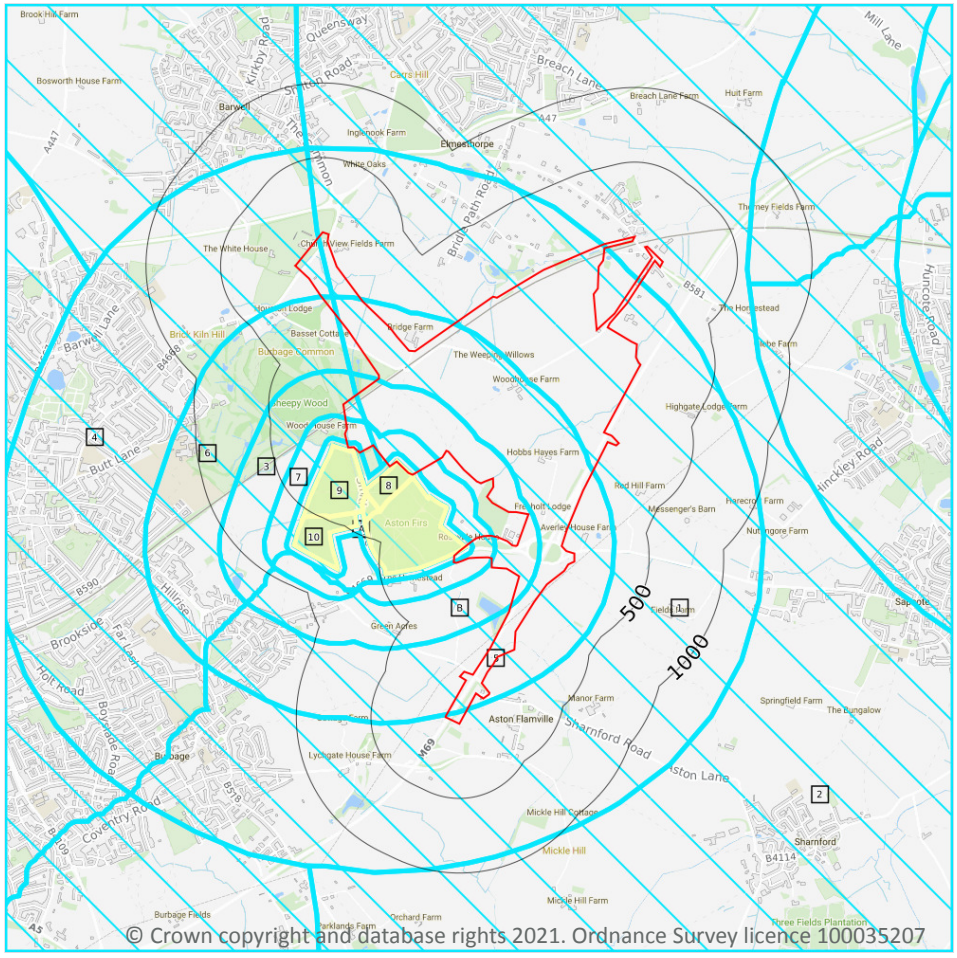
Records within 2000m	8

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**
37m NE	SOAR R NVZ	Surface Water	S309	Existing
627m NW	River Trent (source to confluence with Derwent)	Surface Water	S308	Changed
659m SW	SOAR R NVZ	Surface Water	S309	Existing
709m N	SOAR R NVZ	Surface Water	S309	Existing
709m SW	River Trent (source to confluence with Derwent)	Surface Water	S308	Changed
711m NW	River Trent (source to confluence with Derwent)	Surface Water	S308	Changed
1559m S	River Trent (source to confluence with Derwent)	Surface Water	S308	Changed

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

SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site	11

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 97**

ID	Location	Type of developments requiring consultation
1	On site	**Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 200m² & manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management 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)**
2	On site	**Infrastructure - Airports, helipads and other aviation proposals. 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)**
3	On site	**Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Oil & gas exploration/extraction. Air pollution - Any development that could cause AIR POLLUTION (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons/manure stores). Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.**
4	On site	**Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 200m² & manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management**

ID	Location	Type of developments requiring consultation
5	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 200m² & manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. 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)
6	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 200m² & manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.
7	On site	Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Air pollution - Any development that could cause AIR POLLUTION or DUST either in its construction or operation (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons/manure stores). Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.
A	On site	All applications - All Planning Applications - Except Householder Applications.
A	On site	All applications - All Planning Applications.

ID	Location	Type of developments requiring consultation
B	**On site**	**Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Oil & gas exploration/extraction. Air pollution - Any development that could cause AIR POLLUTION (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons/manure stores). Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. 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)**
B	**On site**	**Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Air pollution - Any development that could cause AIR POLLUTION or DUST either in its construction or operation (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons/manure stores). Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. 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	**5**

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

Features are displayed on the SSSI Impact Zones and Units map on **page 97**

ID: 8
Location: On site
SSSI name: Burbage Wood and Aston Firs
Unit name: Elmesthorpe Plantation
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Unfavourable - Recovering	07/01/2010

ID: B
Location: On site
SSSI name: Burbage Wood and Aston Firs
Unit name: Aston Firs
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Unfavourable - Recovering	18/04/2011

ID: 9
Location: 18m SW
SSSI name: Burbage Wood and Aston Firs
Unit name: Burbage Wood North
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Unfavourable - Recovering	07/01/2010

ID: A
Location: 240m SW
SSSI name: Burbage Wood and Aston Firs
Unit name: Burbage Wood South
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
Condition: Unfavourable - Recovering
Reportable features:

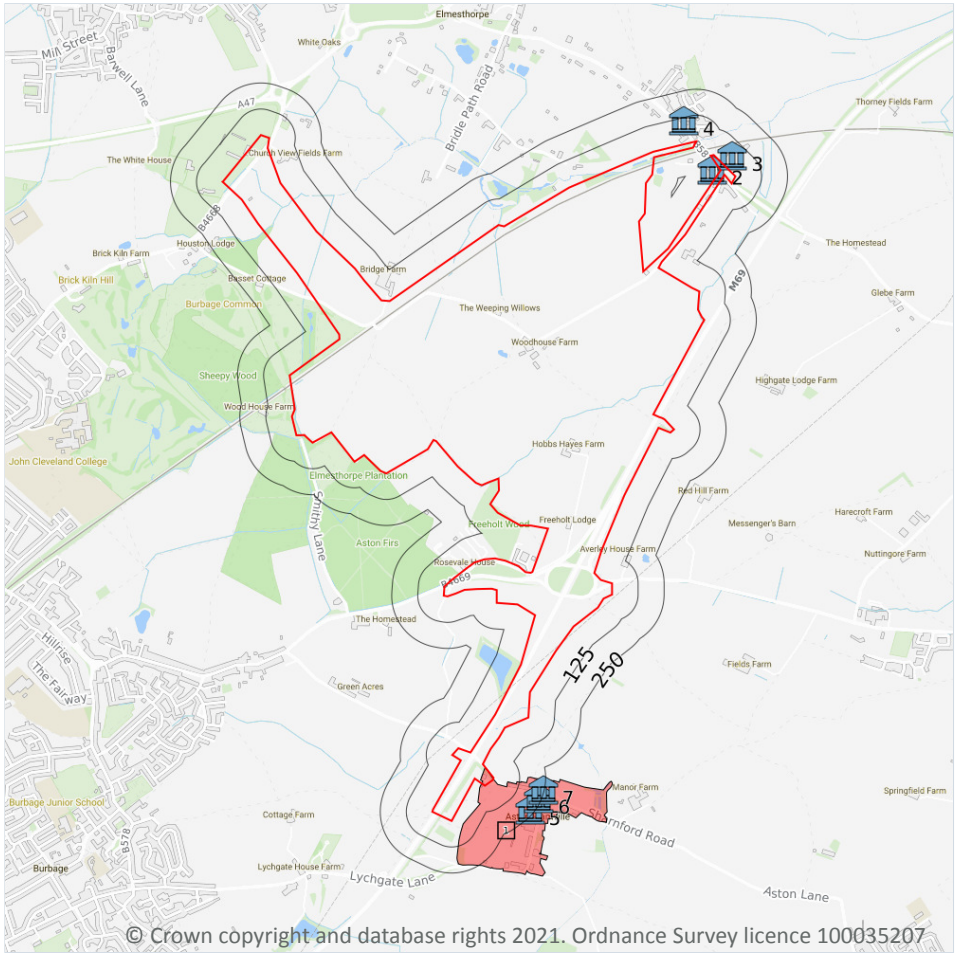
Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Unfavourable - Recovering	07/01/2010

ID: 10
Location: 388m SW
SSSI name: Burbage Wood and Aston Firs
Unit name: Burbage Wood South
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Unfavourable - Recovering	07/01/2010

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

11 Visual and cultural designations



Site Outline

Search buffers in metres (m)

Listed buildings

Conservation areas

Conservation areas - no data

National Parks

Areas of Outstanding Natural Beauty

Registered parks and gardens

Scheduled Monuments

World Heritage Sites

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	6

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

Features are displayed on the Visual and cultural designations map on **page 103**

ID	Location	Name	Grade	Reference Number	Listed date
2	32m SW	The Wentworth Arms And Adjoining Stables, Elmesthorpe, Blaby, Leicestershire, LE9	II	1307251	19/01/1970
3	61m NE	Home Farmhouse And Adjoining Outbuilding, Elmesthorpe, Blaby, Leicestershire, LE9	II	1074694	27/04/1988
4	109m N	Wortley Cottages, Elmesthorpe, Blaby, Leicestershire, LE9	II	1177879	19/01/1970
5	228m SE	The Manor House, Aston Flamville, Blaby, Leicestershire, LE10	II	1074727	07/10/1957

ID	Location	Name	Grade	Reference Number	Listed date
6	239m E	K6 Telephone Kiosk, Aston Flamville, Blaby, Leicestershire, LE10	II	1074726	27/04/1988
7	245m E	Church Farm Court And Boundary Wall, Aston Flamville, Blaby, Leicestershire, LE10	II	1177757	27/04/1988

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

11.5 Conservation Areas

Records within 250m	**1**

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

Features are displayed on the Visual and cultural designations map on **page 103**

ID	Location	Name	District	Date of designation
1	**On site**	**Aston Flamville**	**Blaby**	**1976**

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

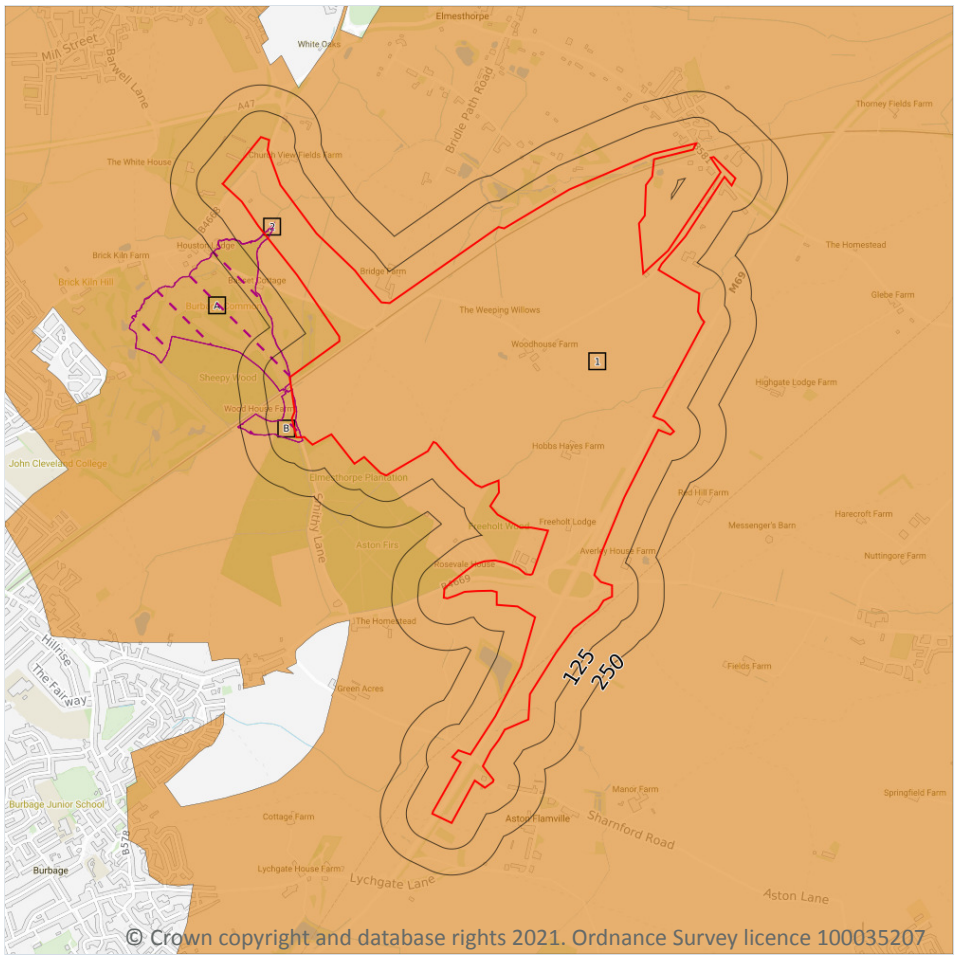
11.7 Registered Parks and Gardens

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 English Heritage, Cadw and Historic Environment Scotland.

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	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 107**

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	7

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.

Features are displayed on the Agricultural designations map on **page 107**

ID	Location	Name	Classification	Other relevant legislation
2	**On site**	**-**	**Section 4 Conclusive Open Country**	**-**
A	**On site**	**Burbage Common**	**Section 15 Land**	**1899**
A	**On site**	**Piece of land at the junction of Sutton Road and W**	**Section 15 Land**	**S.193 - Urban Borough District**
A	**On site**	**Burbage Common**	**Section 4 Conclusive Registered Common Land**	**-**
B	**On site**	**Burbage Common**	**Section 15 Land**	**1899**
B	**On site**	**Piece of land at the junction of Sutton Road and W**	**Section 15 Land**	**S.193 - Urban Borough District**
B	**On site**	**Burbage Common**	**Section 4 Conclusive Registered Common Land**	**-**

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	4

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

Location	Reference	Scheme	Start Date	End date
On site	**AG00356547**	**Higher Level Stewardship**	**01/10/2011**	**30/09/2021**
On site	**AG00356547**	**Higher Level Stewardship**	**01/10/2011**	**30/09/2021**
On site	**AG00356547**	**Higher Level Stewardship**	**01/10/2011**	**30/09/2021**
On site	**AG00356547**	**Higher Level Stewardship**	**01/10/2011**	**30/09/2021**

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

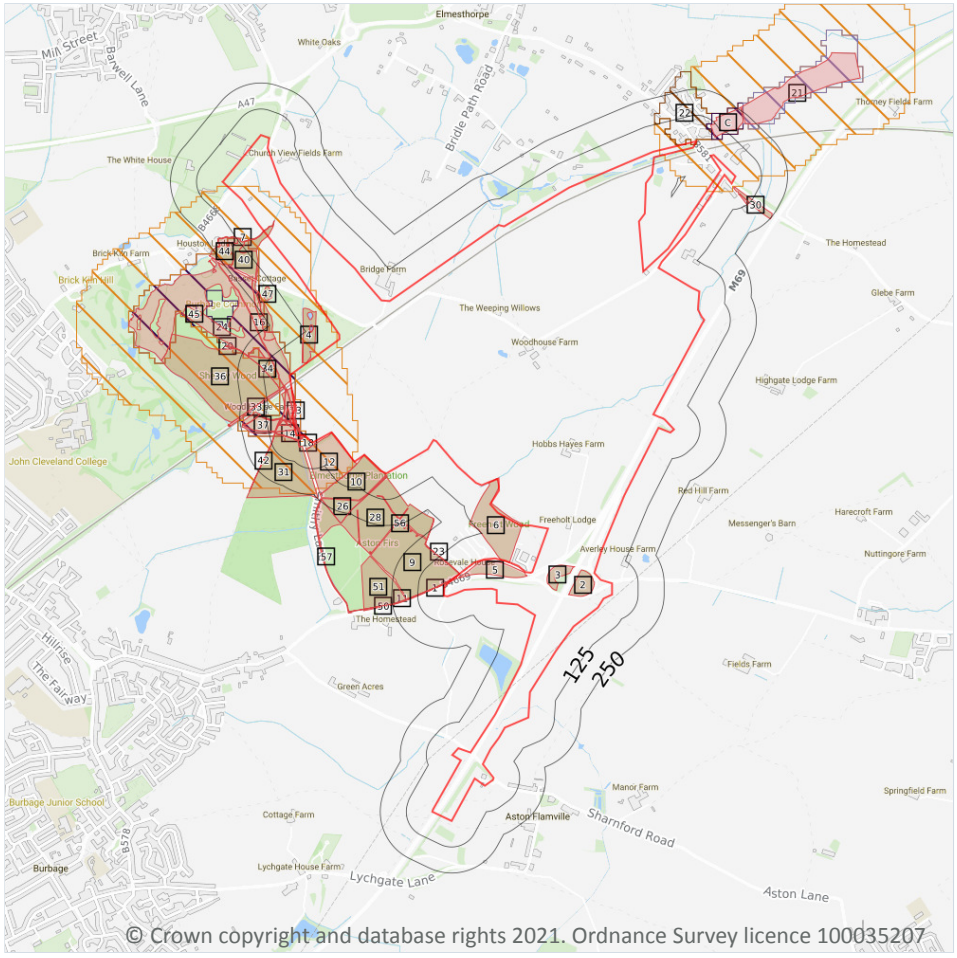
Records within 250m	1

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

Location	Reference	Scheme	Start Date	End Date
178m NW	658496	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023

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	59

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

Features are displayed on the Habitat designations map on **page 110**

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

ID	Location	Main Habitat	Other habitats
5	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
6	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
7	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%); LDAGR (INV > 50%)**
8	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%); LDAGR (INV > 50%)**
9	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%, ENSIS L1)**
10	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%, ENSIS L1)**
11	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%, ENSIS L1)**
12	**On site**	**Good quality semi-improved grassland**	**Main habitat: GQSIG (FEP + HLS)**
13	**On site**	**Lowland dry acid grassland**	**Main habitat: LDAGR (INV > 50%)**
14	**On site**	**Lowland dry acid grassland**	**Main habitat: LDAGR (INV > 50%, FEP + HLS)**
15	**On site**	**Lowland dry acid grassland**	**Main habitat: LDAGR (INV > 50%, FEP + HLS)**
16	**On site**	**Lowland dry acid grassland**	**Main habitat: LDAGR (INV > 50%, FEP + HLS)**
17	**On site**	**Lowland dry acid grassland**	**Main habitat: LDAGR (INV > 50%, FEP + HLS)**
18	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
19	**On site**	**Lowland dry acid grassland**	**Main habitat: LDAGR (INV > 50%, FEP + HLS)**
23	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
A	**On site**	**Lowland dry acid grassland**	**Main habitat: LDAGR (INV > 50%, FEP + HLS)**
25	10m W	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%, FEP + HLS)
26	10m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%, ENSIS L1)
27	12m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	13m W	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%, FEP + HLS)
28	18m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%, ENSIS L1)
B	19m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
29	19m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LDAGR (INV > 50%, FEP + HLS)
30	20m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	21m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%, ENSIS L1)
31	21m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%, ENSIS L1)
32	28m W	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%, FEP + HLS)

ID	Location	Main Habitat	Other habitats
B	30m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%, ENSIS L1)
33	33m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	33m W	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%, FEP + HLS)
34	33m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LDAGR (INV > 50%, FEP + HLS)
35	56m W	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%)
36	58m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
37	58m W	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%)
38	64m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
39	82m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	86m N	Lowland fens	Main habitat: LFENS (INV > 50%); RBEDS (INV > 50%)
40	87m SW	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%)
41	96m W	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%)
42	96m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%, ENSIS L1)
43	116m SW	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%)
44	121m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LDAGR (INV > 50%)
45	122m NW	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%, FEP + HLS)
46	145m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LDAGR (INV > 50%, FEP + HLS)
47	148m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
48	155m W	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%)
49	178m SW	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%, FEP + HLS)
50	178m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
51	180m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%, ENSIS L1)
52	186m NW	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%, FEP + HLS)
53	201m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LDAGR (INV > 50%, FEP + HLS)
55	215m NE	Good quality semi-improved grassland	Main habitat: GQSIG (INV > 50%)
56	232m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%, ENSIS L1)
57	239m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	6

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

Features are displayed on the Habitat designations map on **page 110**

ID	Location	Type	Habitat
20	**On site**	**Network Enhancement Zone 1**	**Not specified**
21	**On site**	**Network Enhancement Zone 1**	**Not specified**
22	**On site**	**Network Enhancement Zone 2**	**Not specified**
24	**On site**	**Primary Habitat**	**Lowland dry acid grassland**
C	75m N	Primary Habitat	Lowland fens
54	205m NE	Restorable Habitat	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

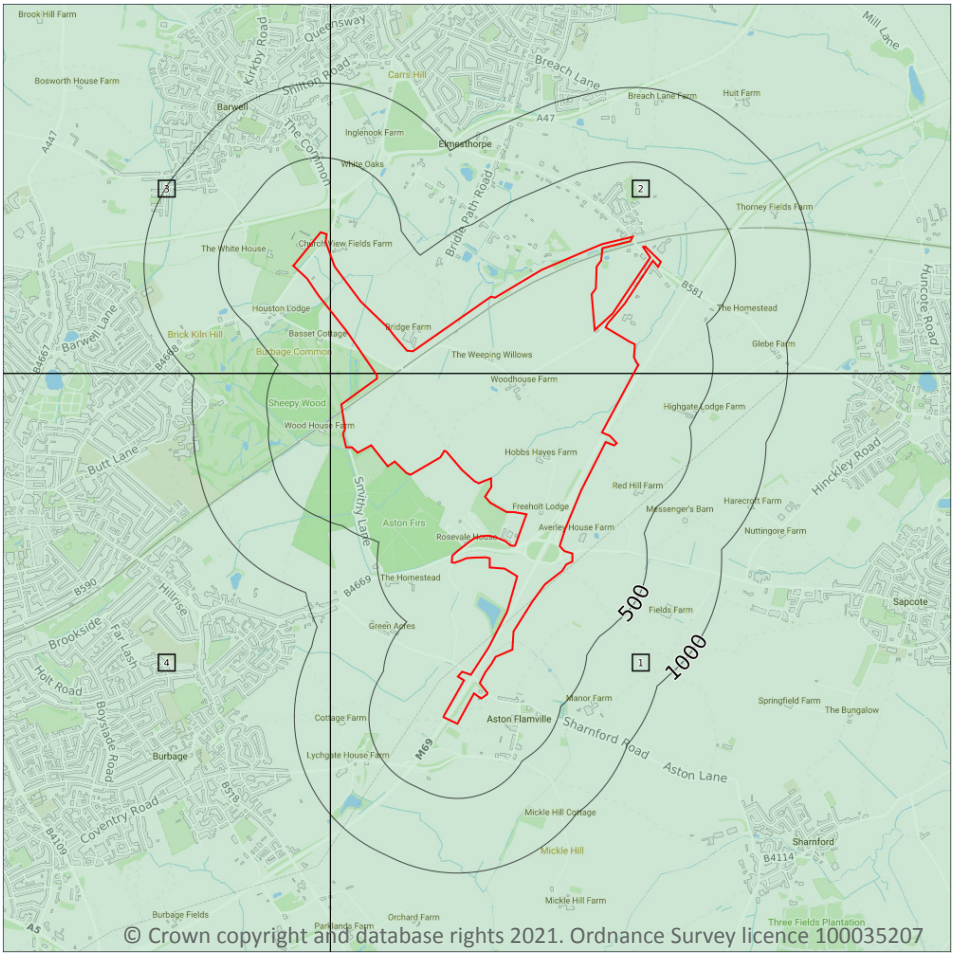
13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m **4**

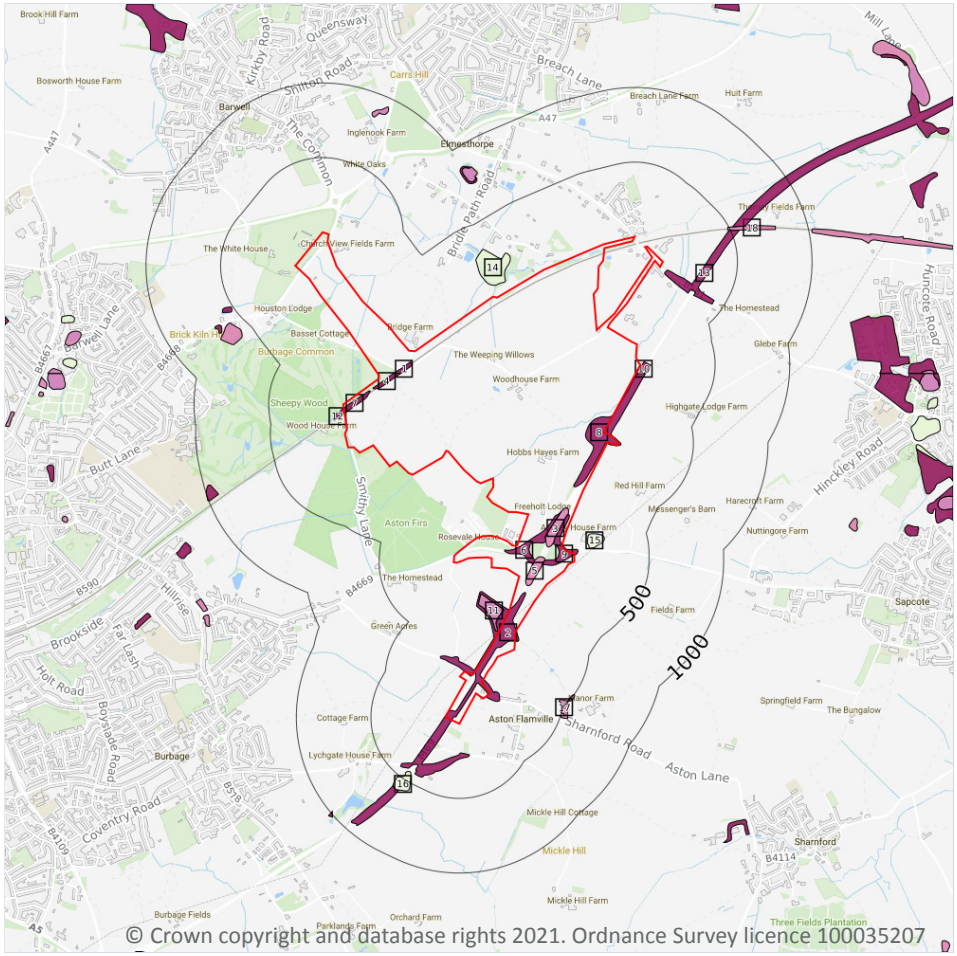
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 114**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**SP49SE**
2	**On site**	**Full**	**Full**	**Full**	**No coverage**	**SP49NE**
3	**On site**	**Full**	**Full**	**Full**	**No coverage**	**SP49NW**
4	73m W	Full	Full	Full	No coverage	SP49SW

This data is sourced from the British Geological Survey.

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



14.2 Artificial and made ground (10k)

Records within 500m	18

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.

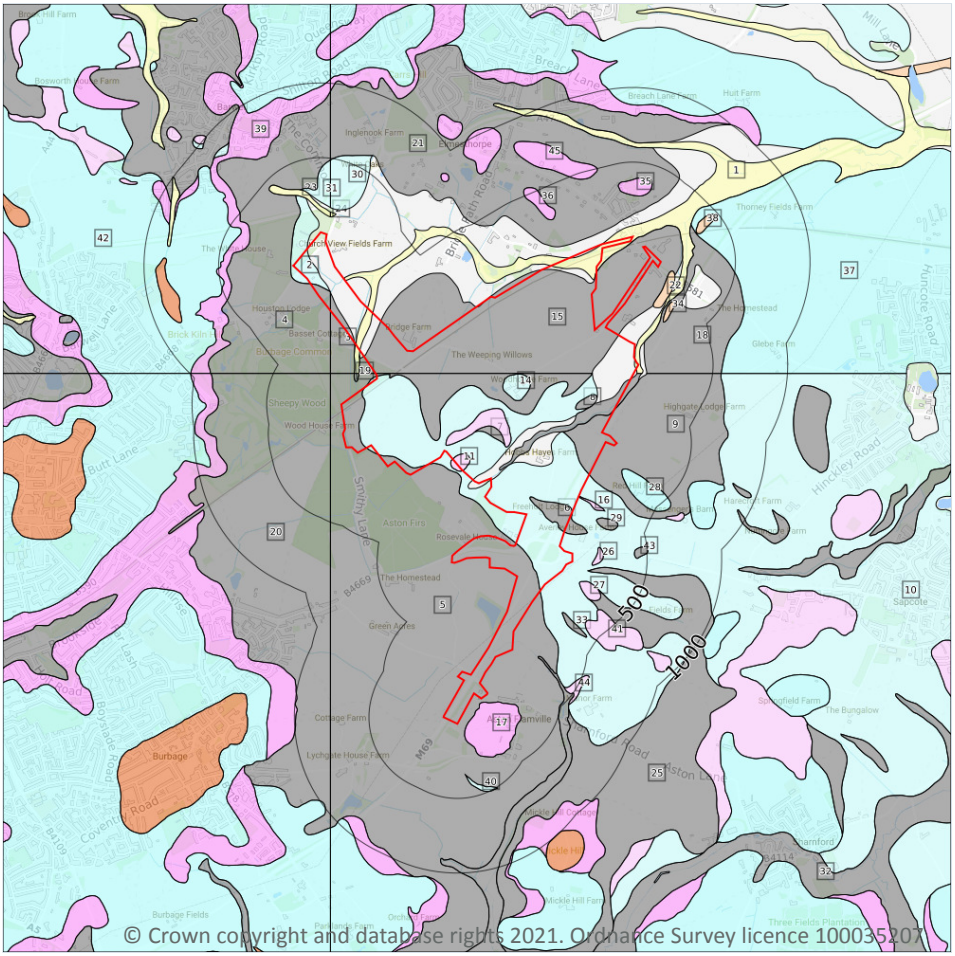
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 116**

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

ID	Location	LEX Code	Description	Rock description
5	**On site**	**WGR-VOID**	**Worked Ground (Undivided)**	**Void**
6	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
7	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
8	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
9	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
10	3m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
11	12m NW	WGR-VOID	Worked Ground (Undivided)	Void
12	34m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
13	49m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
14	64m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
15	107m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
16	436m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
17	452m SE	WGR-VOID	Worked Ground (Undivided)	Void
18	485m NE	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m **45**

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 118**

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
2	On site	THT-DMTN	Thrussington Member - Diamicton	Diamicton
3	On site	WOC-XCZS	Wolston Clay - Clay, Silt And Sand	Clay, Silt And Sand
4	On site	WOC-XCZS	Wolston Clay - Clay, Silt And Sand	Clay, Silt And Sand

ID	Location	LEX Code	Description	Rock description
5	**On site**	**WOC-XCZ**	**Wolston Clay - Clay And Silt**	**Clay And Silt**
6	**On site**	**WOC-XCZ**	**Wolston Clay - Clay And Silt**	**Clay And Silt**
7	**On site**	**WOC-XCZ**	**Wolston Clay - Clay And Silt**	**Clay And Silt**
8	**On site**	**WOC-XCZ**	**Wolston Clay - Clay And Silt**	**Clay And Silt**
9	**On site**	**WOC-XCZ**	**Wolston Clay - Clay And Silt**	**Clay And Silt**
10	**On site**	**THT-DMTN**	**Thrussington Member - Diamicton**	**Diamicton**
11	**On site**	**GFDU-XSV**	**Glaciofluvial Deposits - Sand And Gravel**	**Sand And Gravel**
12	**On site**	**GFDU-XSV**	**Glaciofluvial Deposits - Sand And Gravel**	**Sand And Gravel**
13	**On site**	**ALV-XSWCV**	**Alluvium - Sand With Clay And Gravel**	**Sand With Clay And Gravel [unlithified Deposits Coding Scheme - Extended]**
14	**On site**	**THT-DMTN**	**Thrussington Member - Diamicton**	**Diamicton**
15	**On site**	**WOC-XCZS**	**Wolston Clay - Clay, Silt And Sand**	**Clay, Silt And Sand**
16	2m E	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
17	28m S	WOSG-XSV	Wolston Sand And Gravel - Sand And Gravel	Sand And Gravel
18	45m E	WOC-XCZS	Wolston Clay - Clay, Silt And Sand	Clay, Silt And Sand
19	65m NW	ALV-XSWCV	Alluvium - Sand With Clay And Gravel	Sand With Clay And Gravel [unlithified Deposits Coding Scheme - Extended]
20	73m W	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
21	75m NW	WOC-XCZS	Wolston Clay - Clay, Silt And Sand	Clay, Silt And Sand
22	85m SE	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
23	119m N	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
24	119m N	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
25	123m SE	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
26	133m E	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
27	140m SE	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
28	171m S	ODT-DMTN	Oadby Member - Diamicton	Diamicton
29	172m E	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
30	176m N	THT-DMTN	Thrussington Member - Diamicton	Diamicton

ID	Location	LEX Code	Description	Rock description
31	178m N	THT-DMTN	Thrussington Member - Diamicton	Diamicton
32	180m E	ALV-XSWCV	Alluvium - Sand With Clay And Gravel	Sand With Clay And Gravel [unlithified Deposits Coding Scheme - Extended]
33	207m SE	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
34	243m NE	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
35	275m N	WOSG-XSV	Wolston Sand And Gravel - Sand And Gravel	Sand And Gravel
36	282m NW	WOSG-XSV	Wolston Sand And Gravel - Sand And Gravel	Sand And Gravel
37	303m NE	ODT-DMTN	Oadby Member - Diamicton	Diamicton
38	310m NE	RTD2-XSV	River Terrace Deposits, 2 - Sand And Gravel	Sand And Gravel
39	331m NW	WOSG-XSV	Wolston Sand And Gravel - Sand And Gravel	Sand And Gravel
40	348m S	THT-DMTN	Thrussington Member - Diamicton	Diamicton
41	356m SE	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
42	411m NW	ODT-DMTN	Oadby Member - Diamicton	Diamicton
43	416m E	WOC-XCZ	Wolston Clay - Clay And Silt	Clay And Silt
44	423m SE	GFDU-XSV	Glaciofluvial Deposits - Sand And Gravel	Sand And Gravel
45	451m N	WOSG-XSV	Wolston Sand And Gravel - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

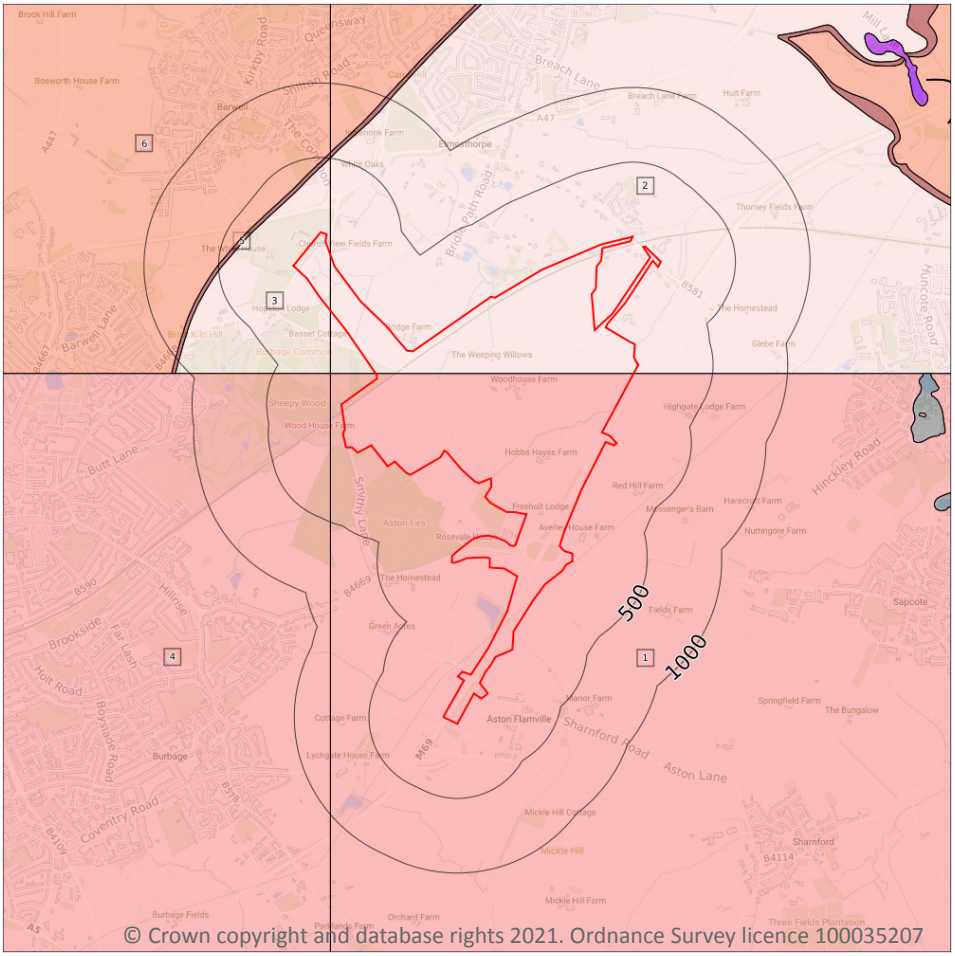
14.4 Landslip (10k)

Records within 500m	**0**

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m	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 121**

ID	Location	LEX Code	Description	Rock age
1	On site	MMG-MDST	Mercia Mudstone Group - Mudstone	Rhaetian Age - Early Triassic Epoch
2	On site	EDW-MDST	Edwalton Member - Mudstone	Carnian Age
3	On site	EDW-MDST	Edwalton Member - Mudstone	Carnian Age

ID	Location	LEX Code	Description	Rock age
4	73m W	MMG-MDST	Mercia Mudstone Group - Mudstone	Rhaetian Age - Early Triassic Epoch
5	313m NW	COT-SDST	Cotgrave Sandstone Member - Sandstone	Carnian Age
6	338m NW	GUN-MDST	Gunthorpe Member - Mudstone	Ladinian Age - Anisian Age

This data is sourced from the British Geological Survey.

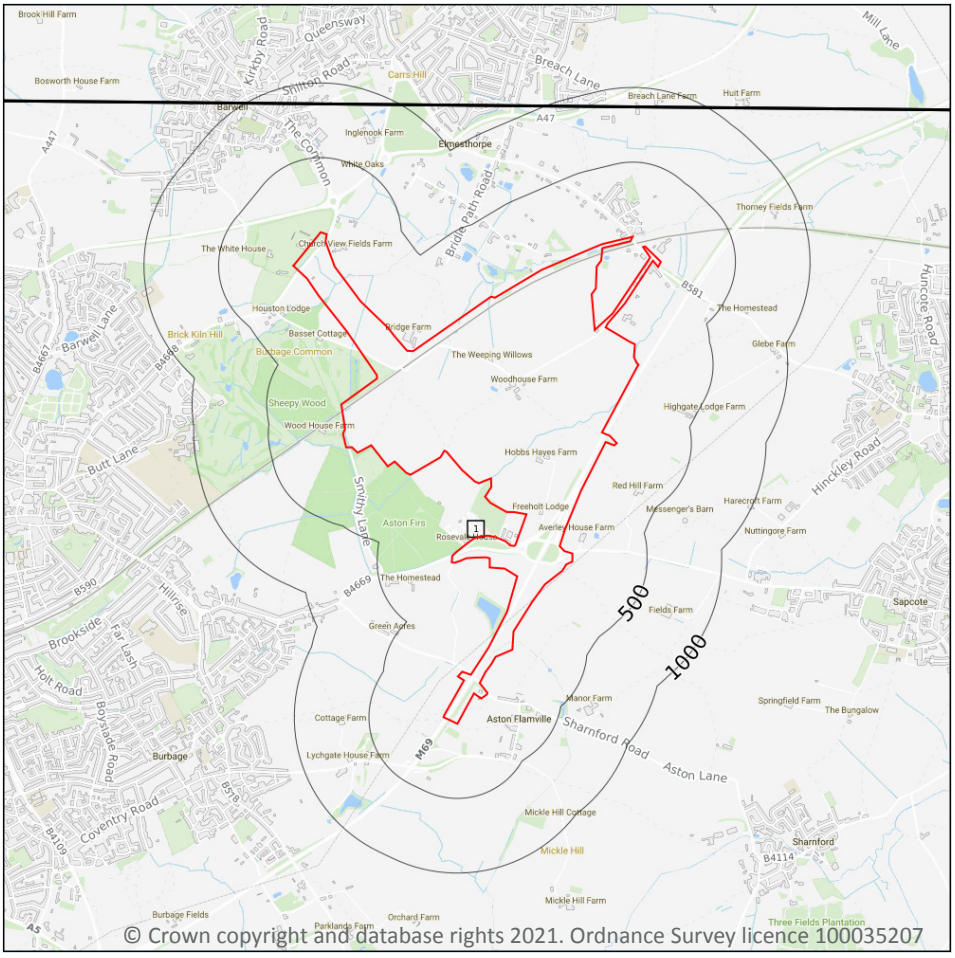
14.6 Bedrock faults and other linear features (10k)

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	1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 123**

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

15.2 Artificial and made ground (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

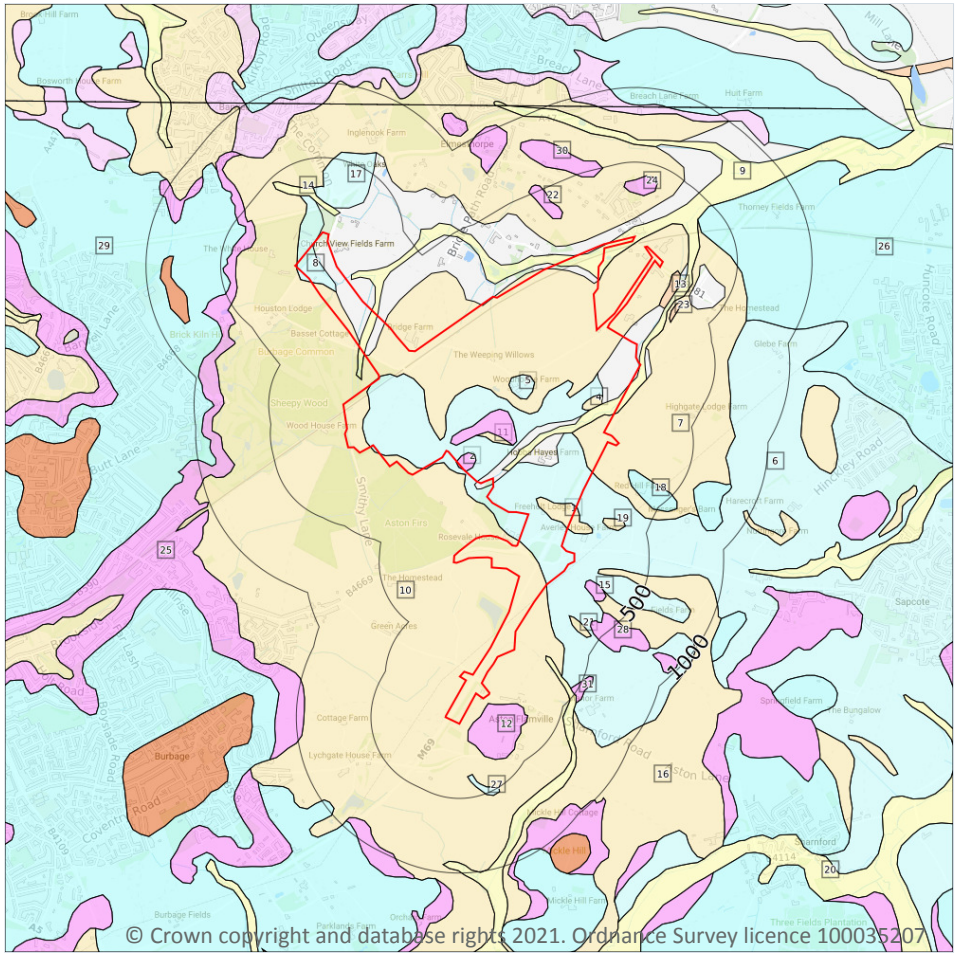
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m **31**

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 125**

ID	Location	LEX Code	Description	Rock description
1	On site	BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
2	On site	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
3	On site	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
4	On site	BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT

ID	Location	LEX Code	Description	Rock description
5	**On site**	**THT-DMTN**	**THRUSSINGTON MEMBER**	**DIAMICTON**
6	**On site**	**THT-DMTN**	**THRUSSINGTON MEMBER**	**DIAMICTON**
7	**On site**	**BOSW-XCZ**	**BOSWORTH CLAY MEMBER**	**CLAY AND SILT**
8	**On site**	**THT-DMTN**	**THRUSSINGTON MEMBER**	**DIAMICTON**
9	**On site**	**ALV-XCZSV**	**ALLUVIUM**	**CLAY, SILT, SAND AND GRAVEL**
10	**On site**	**BOSW-XCZ**	**BOSWORTH CLAY MEMBER**	**CLAY AND SILT**
11	**On site**	**BOSW-XCZ**	**BOSWORTH CLAY MEMBER**	**CLAY AND SILT**
12	47m SE	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
13	97m SE	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
14	130m N	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
15	156m SE	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
16	176m E	BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
17	178m N	THT-DMTN	THRUSSINGTON MEMBER	DIAMICTON
18	187m SE	ODT-DMTN	OADBY MEMBER	DIAMICTON
19	201m E	BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
20	216m E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
21	246m SE	BOSW-XCZ	BOSWORTH CLAY MEMBER	CLAY AND SILT
22	270m NW	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
23	270m SE	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
24	282m N	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
25	318m NW	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
26	326m NE	ODT-DMTN	OADBY MEMBER	DIAMICTON
27	351m S	THT-DMTN	THRUSSINGTON MEMBER	DIAMICTON
28	380m SE	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
29	400m NW	ODT-DMTN	OADBY MEMBER	DIAMICTON
30	454m N	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL
31	458m SE	WOSG-XSV	WOLSTON SAND AND GRAVEL	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	18

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Intergranular**	**Very High**	**High**
On site	**Intergranular**	**Very High**	**High**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Intergranular**	**High**	**Very Low**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**High**	**Low**
On site	**Intergranular**	**High**	**Very Low**
47m S	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.

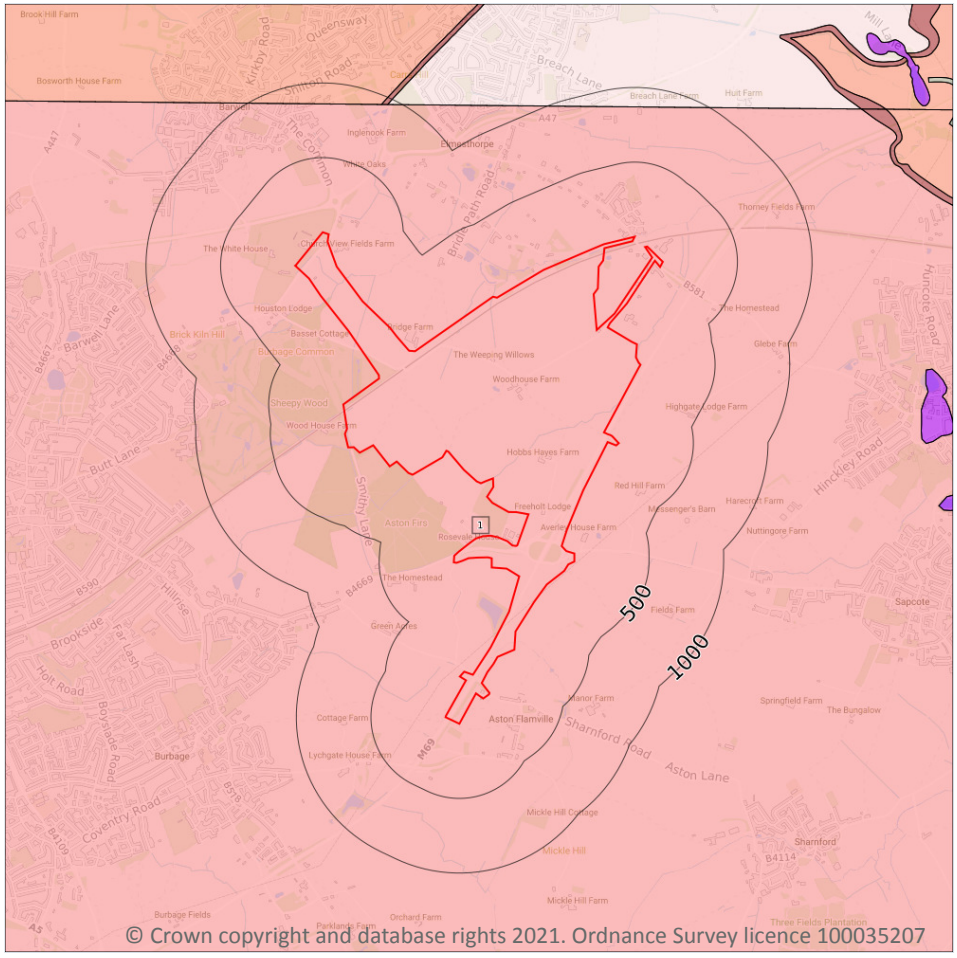
15.7 Landslip permeability (50k)

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	1

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 129**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**MMG-MDST**	**MERCIA MUDSTONE GROUP - MUDSTONE**	**-**

This data is sourced from the British Geological Survey.

15.9 Bedrock 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 bedrock (the zone between the land surface and the water table).

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

This data is sourced from the British Geological Survey.

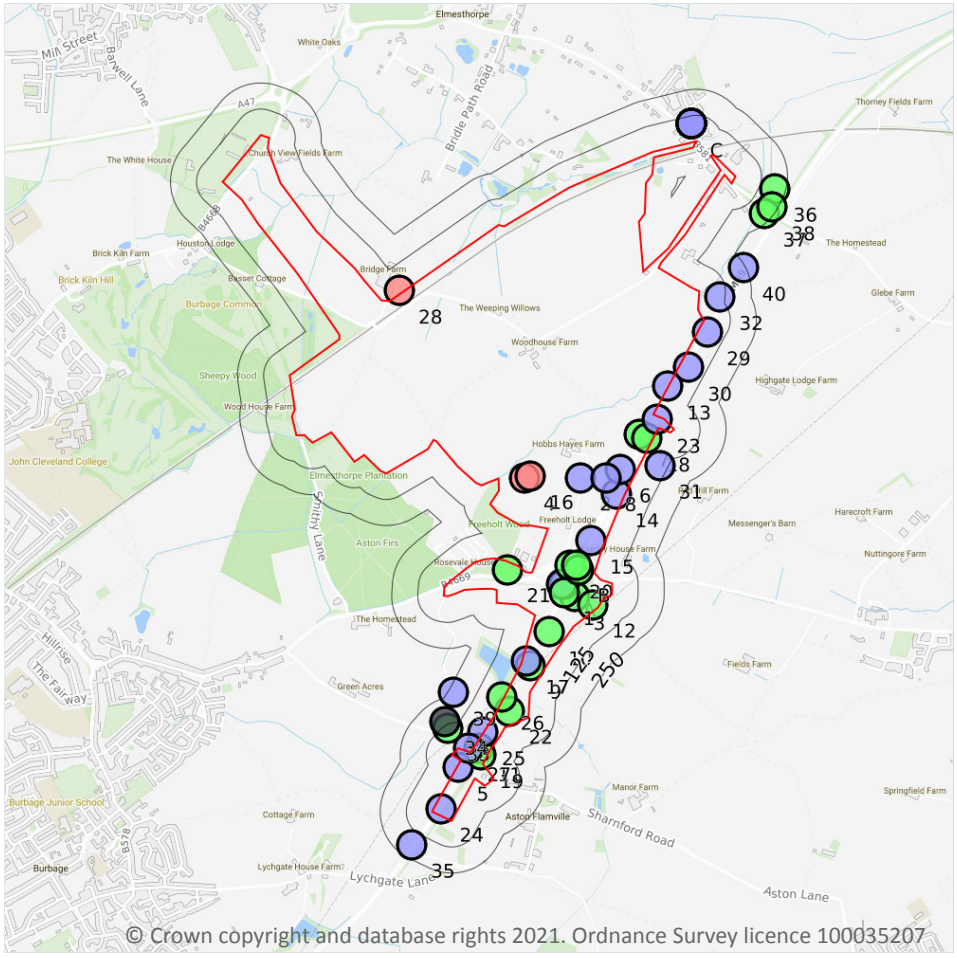
15.10 Bedrock faults and other linear features (50k)

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	63

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 131**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	446390 293750	COVENTRY-LEICESTER M69 BH246	20.0	N	334188
2	On site	446470 294300	COVENTRY-LEICESTER NEW ROUTE BH46	9.0	N	334166
3	On site	446440 293730	COVENTRY-LEICESTER M69 BH247	20.25	N	334189

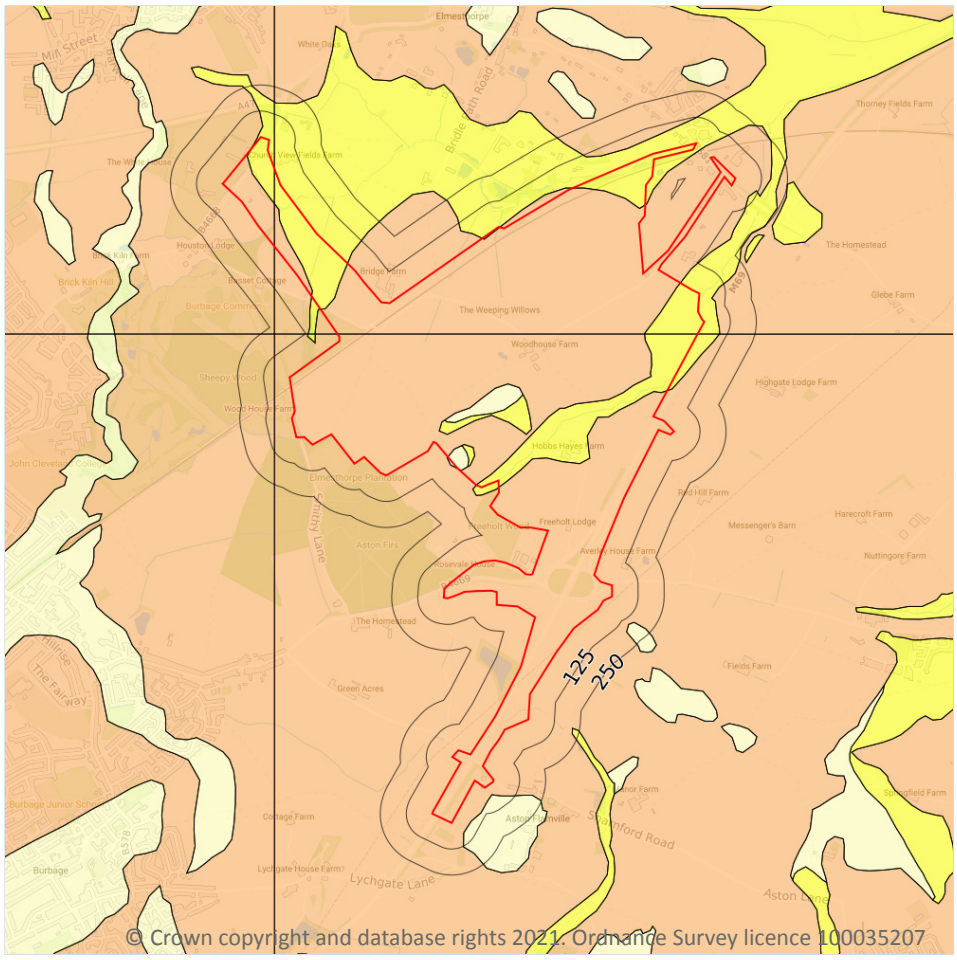
ID	Location	Grid reference	Name	Length	Confidential	Web link
4	On site	446200 294300	SAPCOTE FREEHOLT	504.44	N	334211
5	On site	445880 292910	COVENTRY-LEICESTER NEW ROUTE BH41	9.0	N	334160
6	On site	446660 294342	COVENTRY LEICESTER M69 TP254Z	4.0	N	334196
7	On site	446750 294510	COVENTRY-LEICESTER M69 BH255	12.5	N	334197
8	On site	446590 294300	COVENTRY-LEICESTER M69 BH252	9.0	N	334194
9	On site	446230 293400	COVENTRY-LEICESTER NEW ROUTE BH43	16.0	N	334162
10	On site	446320 293560	COVENTRY-LEICESTER M69 BH243	17.4	N	334186
11	On site	445980 293000	COVENTRY-LEICESTER M69 BH237	16.0	N	334179
12	On site	446530 293690	COVENTRY-LEICESTER NEW ROUTE BH45	24.0	N	334164
13	On site	446890 294740	COVENTRY-LEICESTER NEW ROUTE BH48	8.0	N	334168
14	On site	446640 294220	COVENTRY LEICESTER M69 TP253Z	4.0	N	334195
15	On site	446520 294000	COVENTRY-LEICESTER M69 BH251	9.0	N	334193
16	On site	446230 294310	SAPCOTE FREEHOLT	504.4	N	334154
17	On site	446210 293420	COVENTRY-LEICESTER M69 TH244Z	2.0	N	334185
18	On site	446790 294490	COVENTRY-LEICESTER M69 BH256	12.0	N	334198
19	On site	445990 292970	COVENTRY-LEICESTER M69 BH238	12.45	N	334180
20	On site	446420 293880	COVENTRY-LEICESTER M69 BH248	20.4	N	334190
21	On site	446120 293860	COVENTRY-LEICESTER NEW ROUTE BH44	18.0	N	334163
22	On site	446130 293180	COVENTRY-LEICESTER M69 BH242	12.0	N	334184
23	On site	446840 294580	COVENTRY-LEICESTER M69 TH.K	2.0	N	334199
24	On site	445798 292710	COVENTRY LEICESTER M69 TP235Z	3.0	N	334177
A	On site	446390 293790	COVENTRY-LEICESTER M69 BH245	20.0	N	334187
A	On site	446380 293790	COVENTRY-LEICESTER NEW ROUTE BH45A	10.0	N	334165
B	On site	446460 293860	COVENTRY-LEICESTER M69 BH250	20.4	N	334192
B	On site	446450 293880	COVENTRY-LEICESTER M69 BH249	20.0	N	334191
25	5m NW	446000 293080	COVENTRY-LEICESTER M69 BH240	5.0	N	334182
26	13m NW	446090 293250	COVENTRY-LEICESTER M69 BH241	16.0	N	334183
27	14m N	445930 293000	COVENTRY-LEICESTER M69 BH236	10.0	N	334178

ID	Location	Grid reference	Name	Length	Confidential	Web link
28	15m NW	445600 295200	BRIDGE FARM	109.5	N	18725140
29	43m SE	447080 295000	COVENTRY-LEICESTER M69 258	6.1	N	334121
30	44m SE	446990 294830	COVENTRY-LEICESTER M69 BH257	6.5	N	334200
31	87m SE	446850 294360	COVENTRY-LEICESTER NEW ROUTE BH47	6.0	N	334167
C	88m N	447000 296000	PROP HOUSING DEVELOPMENT TP 3	3.0	N	334110
C	88m N	447000 296000	STATION ROAD ELMESTHORPE TP1	3.0	N	334102
C	88m N	447000 296000	PROP HOUSING DEVELOPMENT TP 5	3.0	N	334112
C	88m N	447000 296000	PROP HOUSING DEVELOPMENT TP 4	2.0	N	334111
C	88m N	447000 296000	PROP HOUSING DEVELOPMENT TP 6	3.0	N	334113
C	88m N	447000 296000	PROP HOUSING DEVELOPMENT TP 9	2.0	N	334116
C	88m N	447000 296000	STATION ROAD ELMESTHORPE TP6	3.0	N	334107
C	88m N	447000 296000	STATION ROAD ELMESTHORPE TP5	3.0	N	334106
C	88m N	447000 296000	PROP HOUSING DEVELOPMENT TP 2	3.0	N	334109
C	88m N	447000 296000	PROP HOUSING DEVELOPMENT TP 10	2.0	N	334117
C	88m N	447000 296000	STATION ROAD ELMESTHORPE TP3	3.0	N	334104
C	88m N	447000 296000	PROP HOUSING DEVELOPMENT TP 8	2.0	N	334115
C	88m N	447000 296000	STATION ROAD ELMESTHORPE TP4	3.0	N	334105
C	88m N	447000 296000	STATION ROAD ELMESTHORPE TP2	3.0	N	334103
C	88m N	447000 296000	PROP HOUSING DEVELOPMENT TP 1	3.0	N	334108
C	88m N	447000 296000	PROP HOUSING DEVELOPMENT TP 7	2.0	N	334114
C	88m N	447000 296000	PROP HOUSING DEVELOPMENT 1	9.0	N	334118
C	88m N	447000 296000	PROP HOUSING DEVELOPMENT 2	8.0	N	334119
C	88m N	447000 296000	PROP HOUSING DEVELOPMENT 3	7.0	N	334120
32	102m E	447140 295170	COVENTRY-LEICESTER M69 BH259	6.5	N	334070
33	112m NW	445830 293100	COVENTRY-LEICESTER M69 BH239	16.0	N	334181
34	143m NW	445820 293130	ASTON FLAMVILLE	-	Y	N/A
35	185m SW	445660 292540	COVENTRY-LEICESTER M69 BH234	5.0	N	334176
36	195m E	447400 295690	COVENTRY-LEICESTER M69 BH264	11.85	N	334075

ID	Location	Grid reference	Name	Length	Confidential	Web link
37	211m SE	447350 295570	COVENTRY-LEICESTER NEW ROUTE BH50	12.0	N	334060
38	225m SE	447390 295600	COVENTRY-LEICESTER M69 BH261	10.7	N	334072
39	226m NW	445860 293270	COVENTRY-LEICESTER NEW ROUTE BH42	10.0	N	334161
40	239m NE	447250 295310	COVENTRY-LEICESTER M69 TP2602	4.0	N	334071

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m	4

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

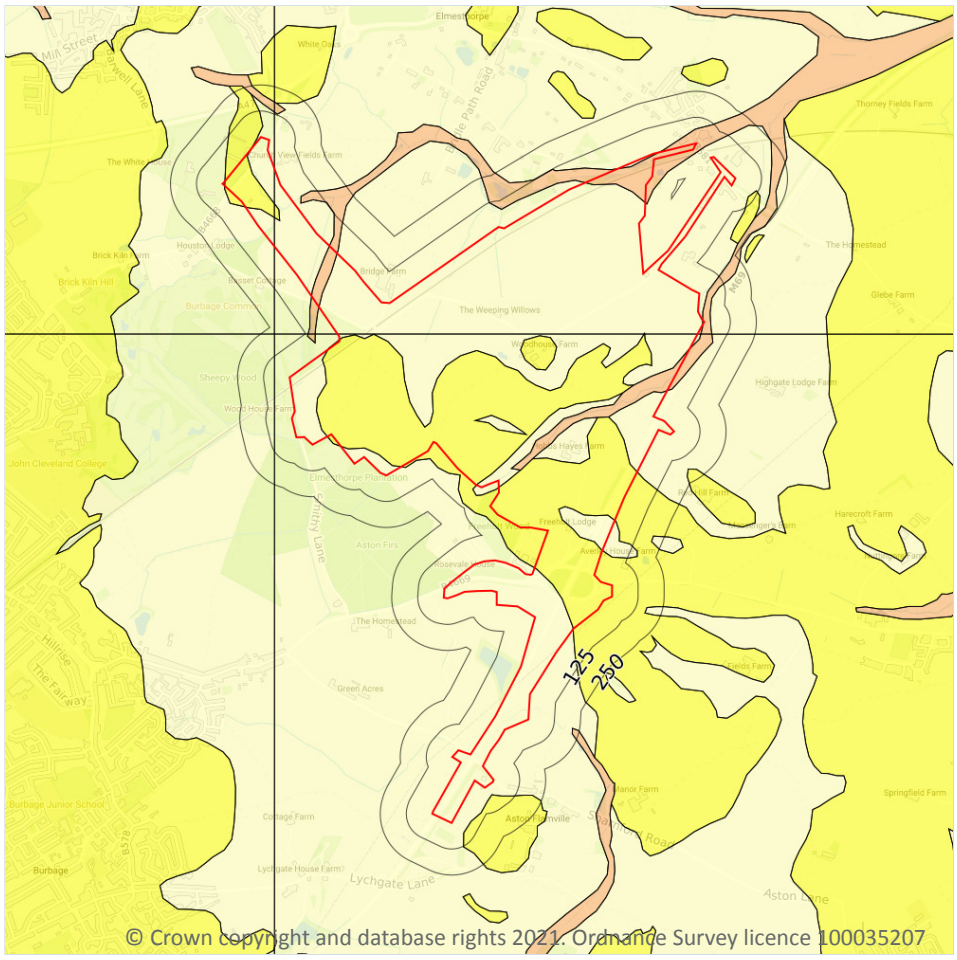
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 135**

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.**

Location	Hazard rating	Details
47m SE	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m	5

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

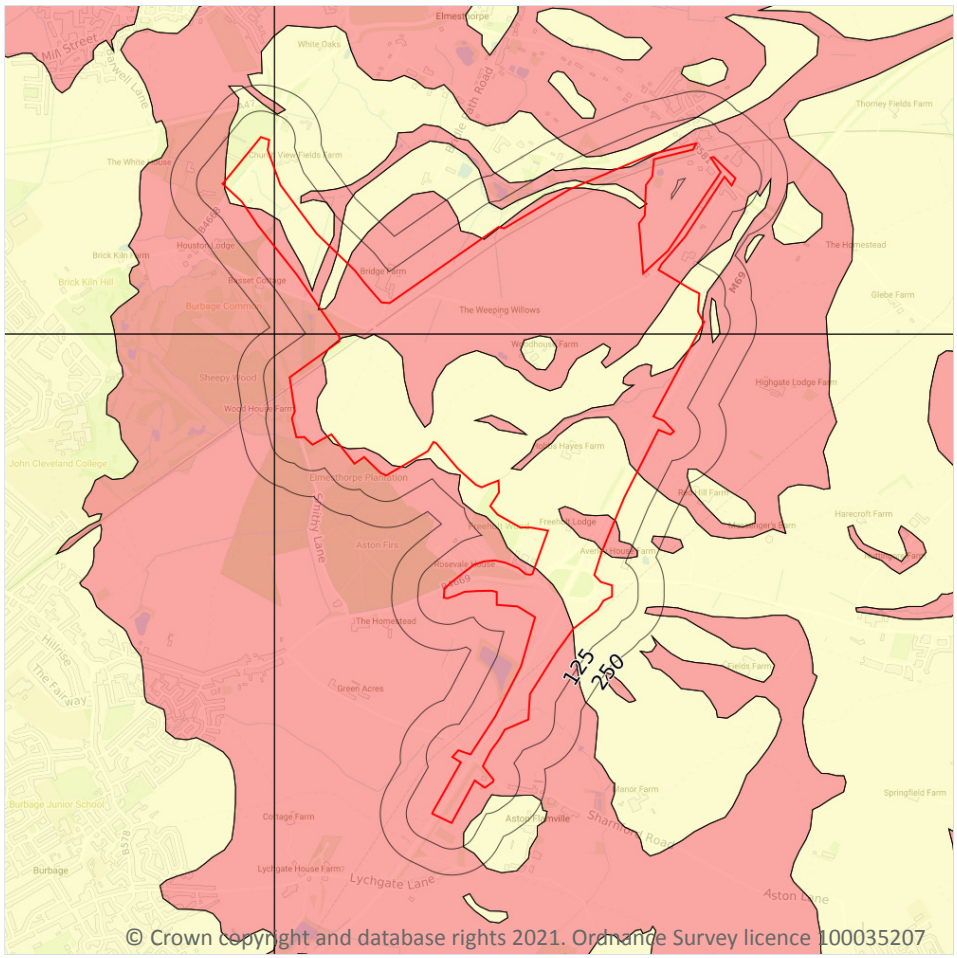
Features are displayed on the Natural ground subsidence - Running sands map on **page 137**

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

Location	Hazard rating	Details
On site	**Very low**	**Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.**
On site	**Low**	**Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.**
31m E	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.
47m 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	4

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.

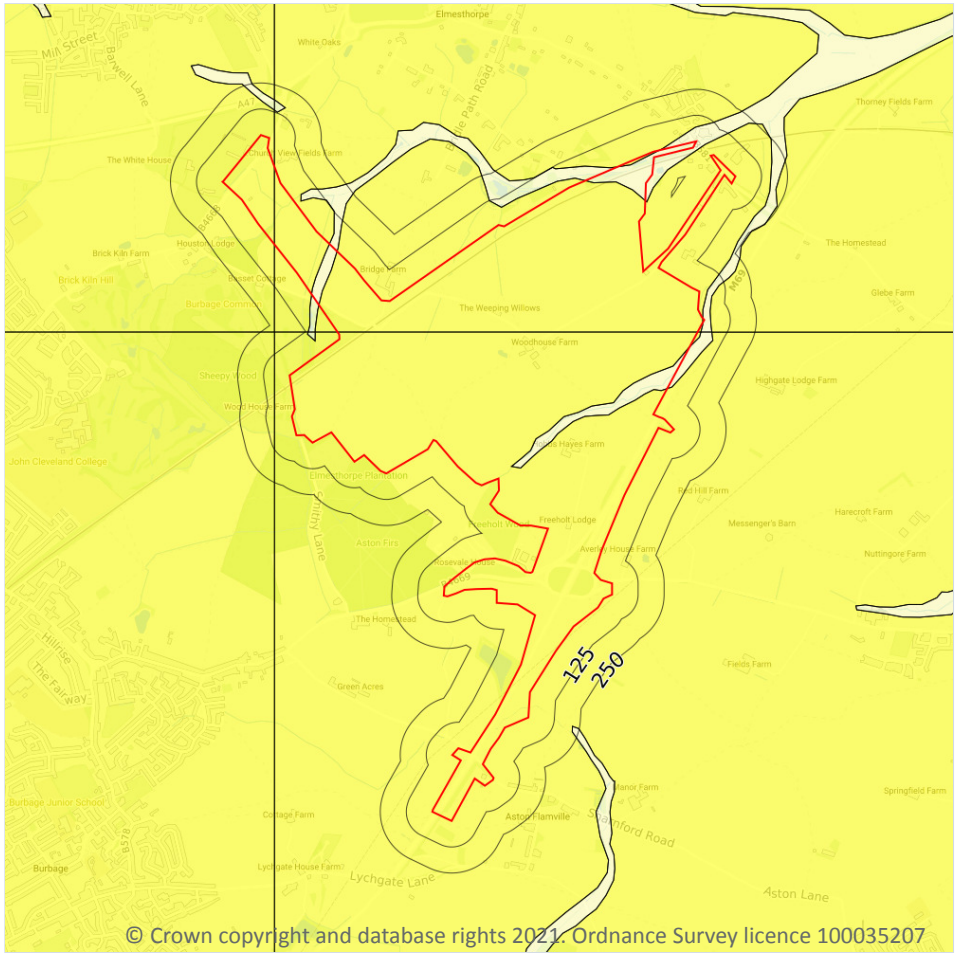
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 139**

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

Location	Hazard rating	Details
31m E	Negligible	Compressible strata are not thought to occur.
47m SE	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	3

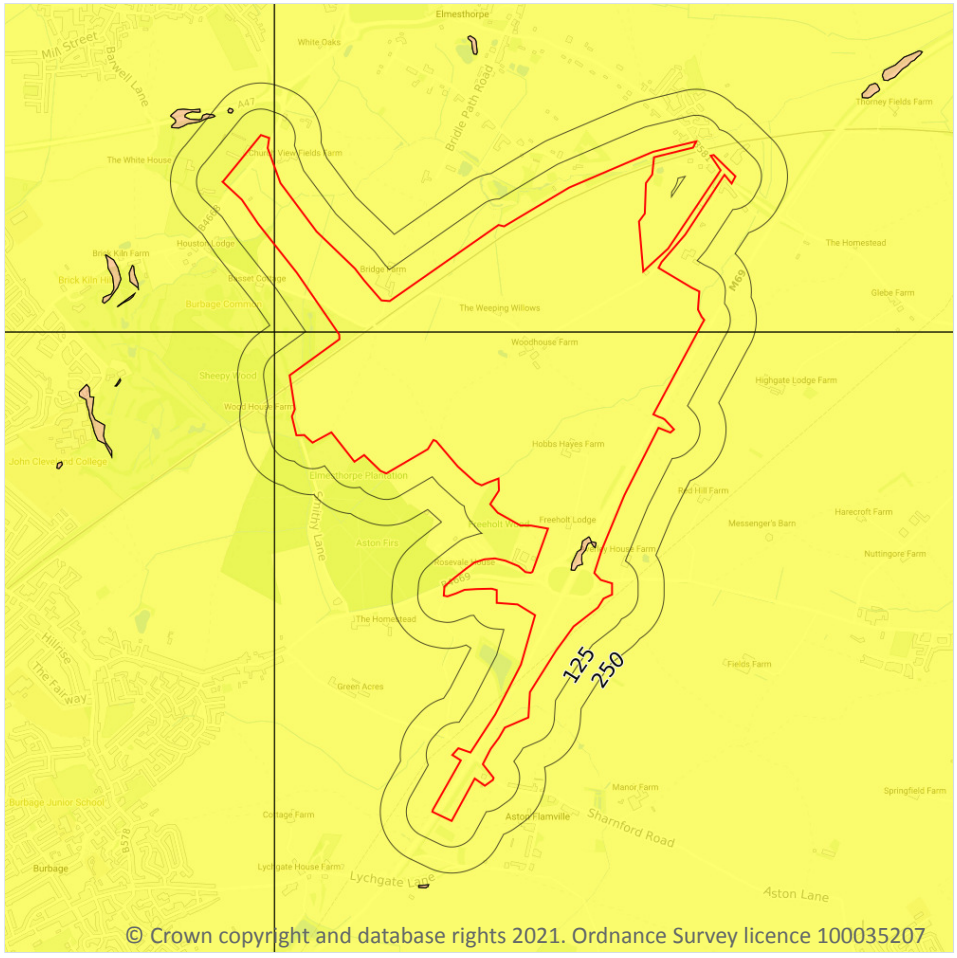
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 141**

Location	Hazard rating	Details
On site	**Negligible**	**Deposits with potential to collapse when loaded and saturated are believed not to be present.**
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**
31m E	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	2

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

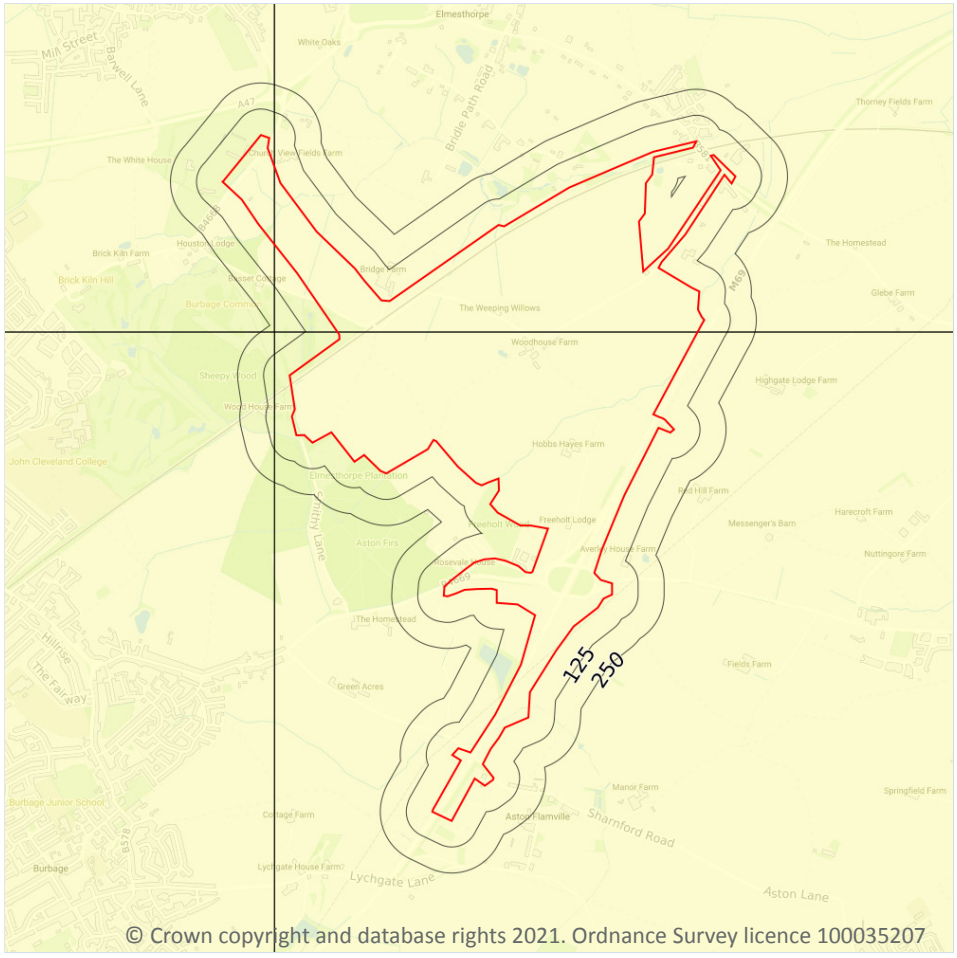
Features are displayed on the Natural ground subsidence - Landslides map on **page 143**

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

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

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

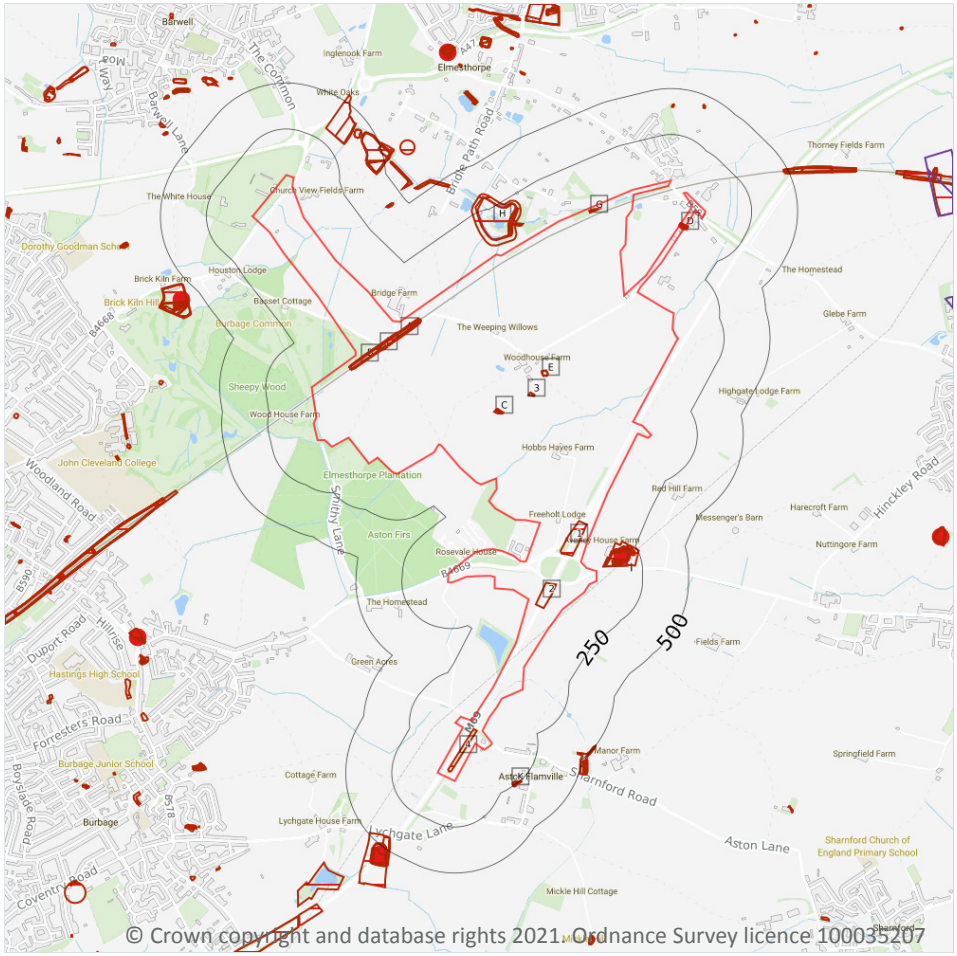
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 145**

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 Peter Brett Associates (PBA).

18.2 BritPits

Records within 500m	1

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 147**

ID	Location	Details	Description
I	162m NE	Name: Longham Lodge Farm Address: Stoney Stanton, HINCKLEY, Leicestershire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	52

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 147**

ID	Location	Land Use	Year of mapping	Mapping scale
1	**On site**	**Cuttings**	**1978**	**1:10000**
2	**On site**	**Cuttings**	**1978**	**1:10000**
3	**On site**	**Pond**	**1904**	**1:10560**
4	**On site**	**Unspecified Heap**	**1978**	**1:10000**
A	**On site**	**Cuttings**	**1904**	**1:10560**
A	**On site**	**Cuttings**	**1886**	**1:10560**
A	**On site**	**Cuttings**	**1950**	**1:10560**
B	**On site**	**Cuttings**	**1968**	**1:10560**
B	**On site**	**Cuttings**	**1978**	**1:10000**
B	**On site**	**Cuttings**	**1904**	**1:10560**

ID	Location	Land Use	Year of mapping	Mapping scale
B	**On site**	**Cuttings**	**1886**	**1:10560**
B	**On site**	**Cuttings**	**1950**	**1:10560**
C	**On site**	**Pond**	**1968**	**1:10560**
C	**On site**	**Pond**	**1978**	**1:10000**
C	**On site**	**Pond**	**1904**	**1:10560**
C	**On site**	**Pond**	**1886**	**1:10560**
C	**On site**	**Pond**	**1950**	**1:10560**
C	**On site**	**Pond**	**1886**	**1:10560**
D	**On site**	**Pond**	**1904**	**1:10560**
D	**On site**	**Pond**	**1886**	**1:10560**
D	**On site**	**Pond**	**1950**	**1:10560**
D	**On site**	**Pond**	**1886**	**1:10560**
E	**On site**	**Pond**	**1904**	**1:10560**
E	**On site**	**Pond**	**1950**	**1:10560**
F	**On site**	**Cuttings**	**1950**	**1:10560**
F	**On site**	**Cuttings**	**1968**	**1:10560**
F	**On site**	**Cuttings**	**1978**	**1:10000**
F	**On site**	**Cuttings**	**1886**	**1:10560**
G	**On site**	**Pond**	**1968**	**1:10560**
G	**On site**	**Pond**	**1978**	**1:10000**
H	40m NW	Fish Pond	1950	1:10560
I	45m NE	Brick Works	1886	1:10560
I	46m NE	Brick Works	1886	1:10560
I	60m NE	Unspecified Ground Workings	1886	1:10560
H	66m NW	Fish Ponds	1904	1:10560
H	74m NW	Old Fish Ponds	1886	1:10560
J	76m NW	Fish Ponds	1968	1:10560
J	76m NW	Fish Ponds	1978	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
J	85m NW	Pond	1968	1:10560
J	85m NW	Pond	1978	1:10000
I	95m E	Unspecified Ground Workings	1886	1:10560
I	97m E	Unspecified Pit	1886	1:10560
I	98m NE	Sand Pit	1886	1:10560
I	101m E	Unspecified Ground Workings	1904	1:10560
I	101m E	Unspecified Pit	1950	1:10560
I	130m NE	Refuse Heap	1950	1:10560
I	131m NE	Refuse Heap	1904	1:10560
I	184m NE	Pond	1968	1:10560
I	184m NE	Pond	1978	1:10000
K	235m SE	Unspecified Ground Workings	1950	1:10560
K	237m SE	Unspecified Pit	1886	1:10560
K	238m SE	Unspecified Ground Workings	1904	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	0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

18.7 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 Peter Brett Associates (PBA).

18.8 JPB mining areas

Records on site	0

Areas which could be affected by former coal 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.

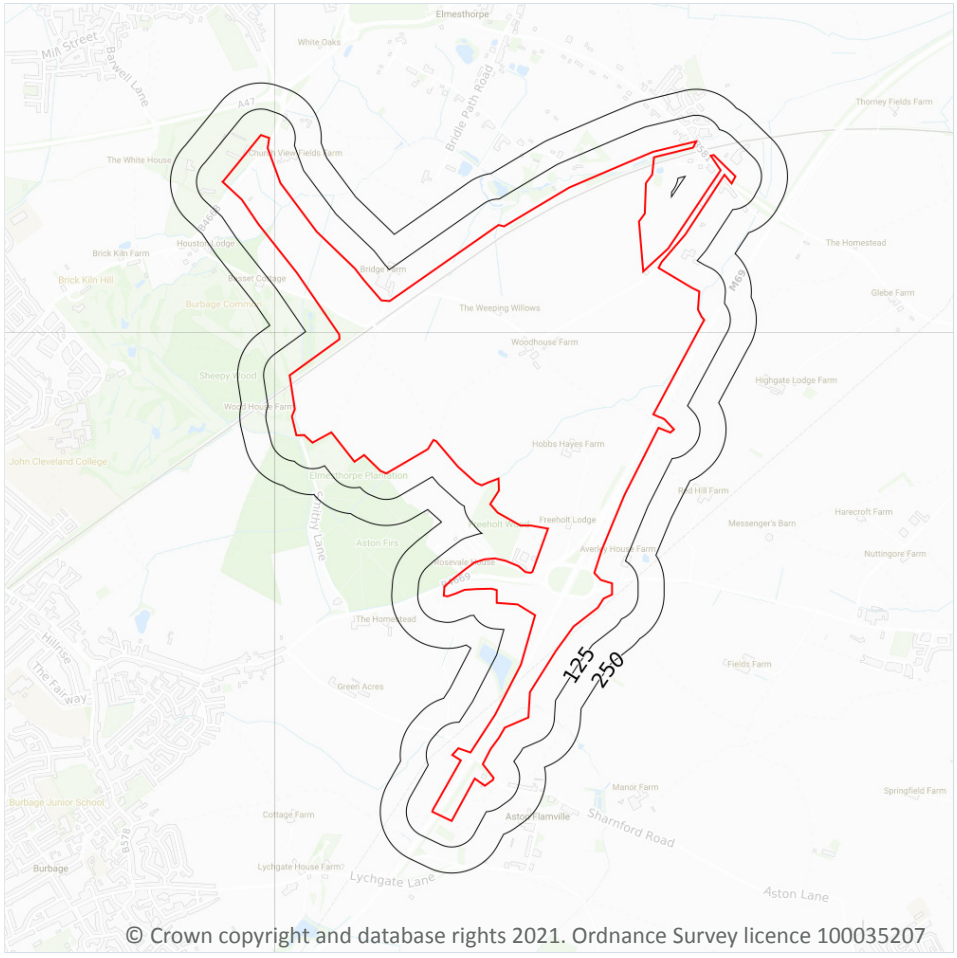
18.13 Clay mining

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



Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

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 153**

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	**94**

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 km^2. 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 km^2; 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 30 mg/kg**

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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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
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 - 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 - 30 mg/kg

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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 30 mg/kg

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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 30 mg/kg**
3m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
6m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
27m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
31m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
32m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
46m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
47m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
48m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 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 km^2).

This data is sourced from the British Geological Survey.

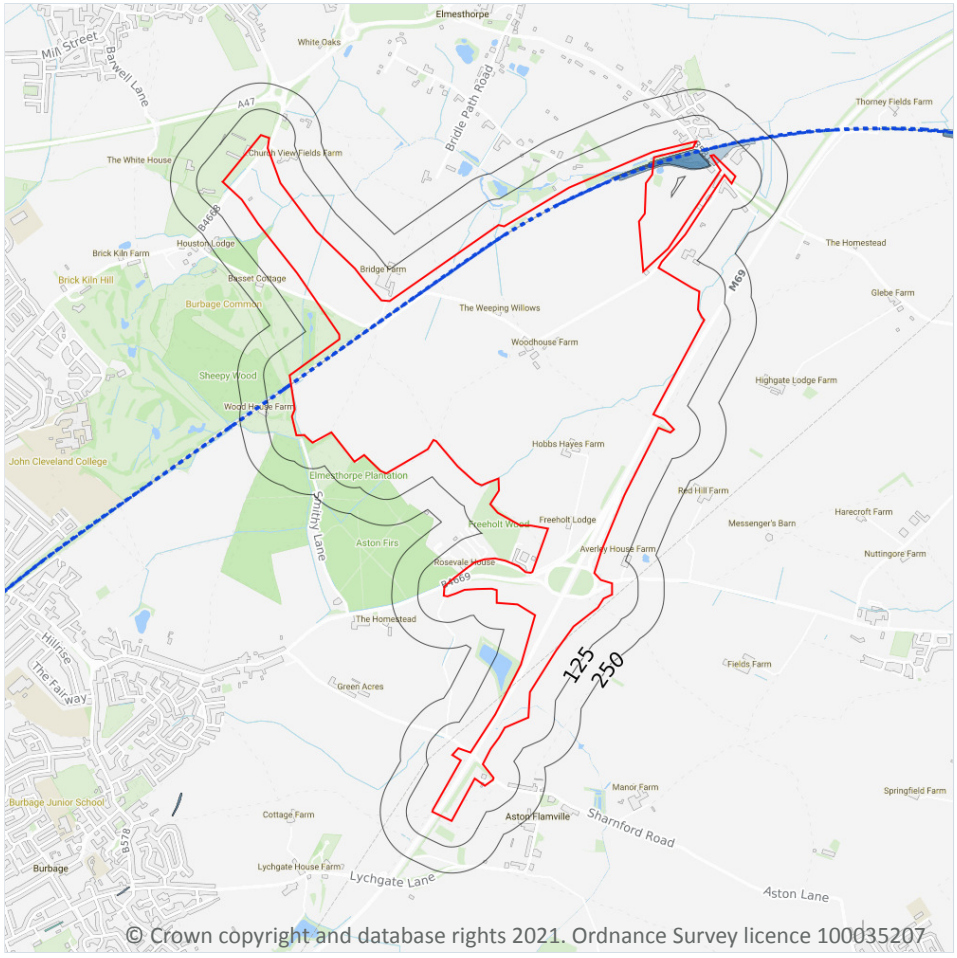
20.3 BGS Measured Urban Soil Chemistry

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 km^2.

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects



21.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	8

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 159**

Location	Land Use	Year of mapping	Mapping scale
On site	**Railway Sidings**	**1962**	**2500**
On site	**Railway Sidings**	**1904**	**10560**
On site	**Railway Sidings**	**1886**	**10560**
On site	**Railway Sidings**	**1950**	**10560**
On site	**Railway Sidings**	**1968**	**10560**
On site	**Railway Sidings**	**1978**	**10000**
28m N	Railway Sidings	1886	10560
28m N	Railway Sidings	1962	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	16

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

Features are displayed on the Railway infrastructure and projects map on **page 159**

Location	Name	Type
On site	**Birmingham to Peterborough Line**	**rail**
On site	**Birmingham to Peterborough Line**	**rail**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
On site	**Not given**	**Multi Track**
23m W	Birmingham to Peterborough Line	rail
24m W	Birmingham to Peterborough Line	rail
34m N	Not given	Multi Track
43m W	Birmingham to Peterborough Line	rail
45m W	Birmingham to Peterborough Line	rail
142m NE	Not given	Multi Track

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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