Desk Study Report
and
Contaminated Land Risk Assessment

Arborfield Green Development Open Spaces
Arborfield Garrison
Wokingham
Berkshire

Client: Crest Nicholson

J15032

June 2026

WILSON BAILEY
GEOTECHNICAL & ENVIRONMENTAL

Project title	Arborfield Green Development Open Spaces, Arborfield Garrison, Wokingham, Berkshire		**Project ref** J15032
Report prepared by	Dominic Brightman BSc MSc DIC FGS CGeol ARSM		
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2	Final – Revised site boundaries	15 June 2026	

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1.0 INTRODUCTION

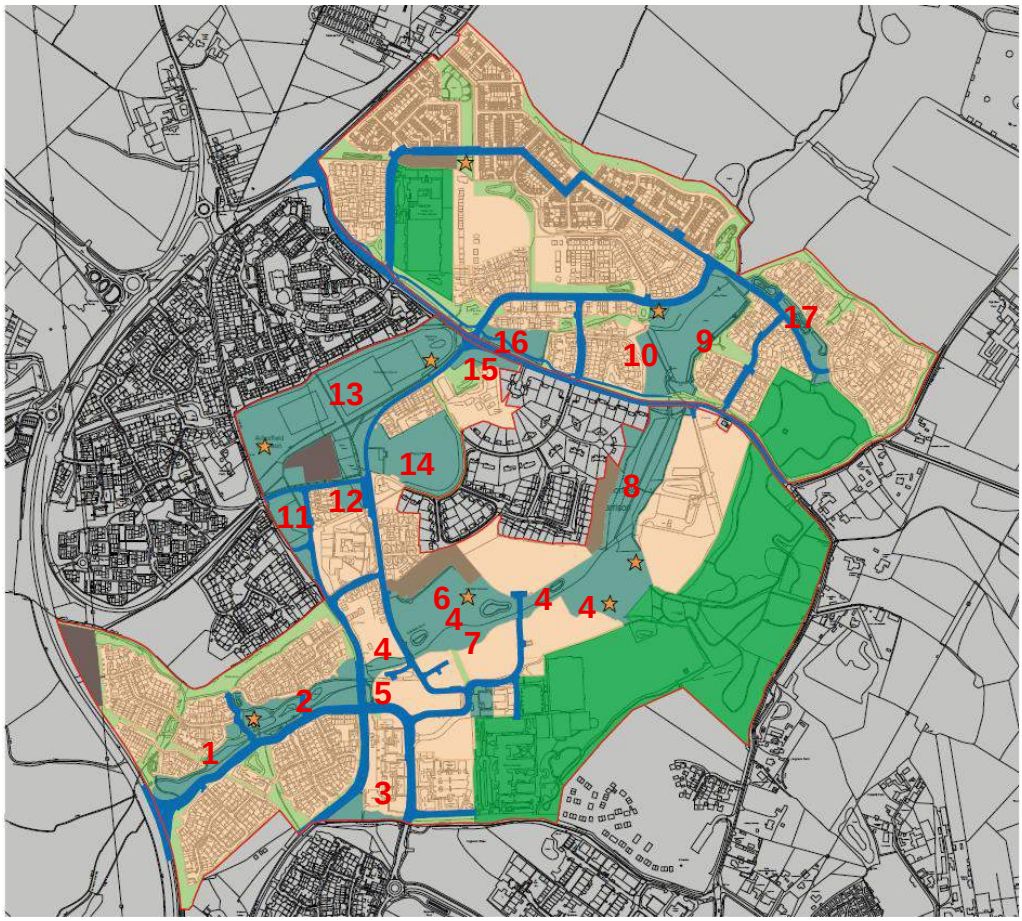
Wilson Bailey have been instructed by Crest Nicholson to carry out a desk study and contaminated land assessment of the various parcels of Open Space that are to be formed as part of the residential redevelopment of the former Arborfield Garrison military facilities at this site.

The re-development of the former military garrison through demolition and clearance and subsequent construction of a multi-phased residential and infrastructure project has been guided by parcel specific ground investigations which have included parcel specific desk studies, ground investigations, post demolition ground inspections and remediation works as necessary. These works remain ongoing, with several parts of the former Garrison currently under development, and the main northern part of the former Garrison remaining essentially intact and currently disused, having been more recently used as a film studio.

This report is intended to provide an assessment of the potential for a contaminated land history for each of the Open Space Parcels, together with a review of any ground investigation information held for these parcels as part of a contaminated land risk assessment based upon a Public Open Space near Residential Housing proposed end use.

1.1 Proposed Development

An excerpt of the appended layout plan is provided below showing a summary of the development of the former military garrison and indicates each of the Open Space Parcels indicated;



1.2 Purpose of Work

The principal technical objectives of the work carried out were as follows.

- to determine the history of the Open Space Parcels and their immediate surroundings, particularly with respect to any previous or present potentially contaminative uses;
- to research the geology and hydrogeology of the Open Space Parcels and their immediate surroundings;
- to determine the environmental setting of the Open Space Parcels and their immediate surroundings;
- to check records of data on ground water, surface water and other publicly available environmental data; and
- to use the information obtained in the above searches to produce a preliminary conceptual model and carry out a contaminated land risk assessment based upon the proposed Public Open Space near Residential Housing end use;

1.3 Scope of Work

In order to meet the above objectives, a desk study was carried out, comprising, in summary, the following activities:

- a review of readily available geological maps;
- a review of publicly available environmental data sourced from the GroundSure database;
- a review of historical Ordnance Survey (OS) mapping supplied by GroundSure;
- a review of available ground investigation information obtained as part of previous works on, or in the vicinity of the Open Space Parcel, and
- provision of a report presenting and interpreting the above data, together with our advice and recommendations with respect to the proposed development.

As a result of the government guidance associated with the current pandemic situation it has not been possible to access information that may be held in the local studies library or to carry out a site walkover survey of the site.

1.4 Limitations

The conclusions and recommendations made in this report are limited to those that can be made on the basis of the research carried out. The results of the research should be viewed in the context of the work that has been carried out and no liability can be accepted for matters outside the stated scope of the research. Any comments made on the basis of information obtained from third parties are given in good faith on the assumption that the information is accurate. No independent validation of third party information has been made by the Wilson Bailey Partnership.

2.0 THE SITE

2.1 Open Space Parcels Descriptions

Parcel 1
This area forms a section of roadside verge and soft landscaping adjoining the Nine-Mile Ride Extension (NMRE) and is bisected by tarmac surface footpaths. The southern boundary is formed by the NMRE, with the northern extent of this area formed by a mature hedgerow. The ground levels within this parcel undulate and have been landscaped as part of the raising of levels required to form the roundabout at the junction of the NMRE and Eversley Road to the west. Within this parcel and the adjoining Parcel 2 to the east, the hedgerow includes a shallow drainage ditch.

Parcel 2
This area comprises a further area of soft landscaping but also includes surface water attenuation features, an attenuation basin, a children's play area and areas of mown grass. The surface water attenuation feature discharges to the drainage ditch which follows the line of the remaining hedgerow to pass beneath Sheerlands Road and into Parcel 4.

Parcel 3
The western boundary of this parcel is formed by Sheerlands Road, with the eastern boundary formed by a parcel of residential apartments. The parcel itself is occupied by an area of mixed mature and semi-mature native woodland.

Parcel 4
This parcel comprises an area of soft landscaping in the west, whilst the eastern part of this parcel comprises the banks of a drainage ditch that passes through this parcel and Parcel Nos 1 and 2 and Parcels 8 and 10 and into the into the Lake within the northern part of the Arborfield Green Development. This drainage ditch gradually picks up surface water inflows and becomes the source of the Barkham Brook, which subsequently flows northeasterly into Parcel 8.

Parcel 5
Bounded to the west by Sheerlands Road and NMRE to the south, this parcel forms an area of historically established grass roadside verge and mature trees.

Parcel 6
Directly to the north of the main part of Parcel 4, this parcel forms an area of gently sloping grassland which is to be bisected with a series of footpaths once completed to form an area of communal access soft landscaping as part of the Linear Park through the completed development.

Parcel 7
This parcel comprises a surface water attenuation pond designed to attenuate surface water flows from the residential development to the south when flowing into the ditch that passes through Parcel 4 to the north as part of the overall surface water management strategy for this site.

Parcel 8
Lying between historical army accommodation houses and a new phase of residential development, this linear parcel of land is bounded by mature trees and comprises an area of rough grassland bisected by a footpath and drainage ditches that collect to form Barkham Brook, which flows northwards towards the lake that forms Parcel 9.

Parcel 9
An artificial water body located within the northern part of the Arborfield Green development that is bounded to the north by an embankment upon which Princess Marine Drive is formed. This artificial lake was formed through the damming of the Barkham Brook which flows through this waterbody.

Parcel 10
Forming the banks and surrounding areas of grassland with occasional mature trees and recently completed landscaping, this parcel is predominantly lain to grass and planting and is bisected by pathways.

Parcel 11
A triangular parcel of open mown grass with mature and semi-mature trees that comprises an unaltered and unaffected part of the open landscaping from the original Garrison.

Parcel 12
A rectangular parcel of open mown grass with mature and semi-mature trees that comprises an unaltered and unaffected part of the open landscaping from the original Garrison.

Parcel 13
This parcel forms the main central area of mown grass and the central sports pitches that remain predominantly unaltered and unaffected by the residential redevelopment of the original Garrison. Within the eastern and southwestern parts of this land parcel two attenuation ponds have been constructed as part of the surface water attenuation and management system for adjoining residential development parcels. The hard surface tennis courts within the southern part of this parcel have also been recently refurbished and upgraded.

Parcel 14
Within the central part of this open space parcel is the former Garrison cricket pitch, with the cricket pavilion located within the western margins of this area, set within mown grass with specimen mature trees planted as part of the original Garrison development and remaining unaltered during the course of the residential development.

Parcel 15
Similar to Parcel Nos 11 and 12, this parcel comprises a parcel of open mown grass with mature and semi-mature trees that comprises an unaltered and unaffected part of the open landscaping from the original Garrison.

Parcel 16
The western part of this elongated parcel comprises and area of roadside soft landscaping that has been modified and upgraded from its original condition through the introduction of

Parcel 17
This parcel is a further section of roadside verge along the northern side of Princess Marina Drive, although this area has more recently been substantially excavated to provide attenuation basins as part of the site wide surface water management system, although areas of historical tree planting have been left unaffected.

2.2 Site History and Assessment of Potentially Contaminated Land History

The history of the site and immediate surrounding area has been researched by reference to historical Ordnance Survey (OS) maps together with supplementary local knowledge and information provided by the Local Authority environmental enquiry response.

The Wider Garrison Site

In 1904 the Army purchased three local farms and associated lands to create a Remount Depot, which was responsible for rearing, collecting and training horses for military use prior to mechanization of the Army. This predominantly agricultural use of the site continued through to 1937, by which time several areas of predominantly timber build buildings had been constructed to provide stables, additional agricultural buildings and military accommodation and administration buildings together with two sewerage works comprising tanks and filter beds. During this period the infirmary stables were constructed, which still remain on site having been refurbished, with Langleycommon Farm to the northern edge of the Garrison having been used as a veterinary facility and isolation area.

Following the mechanization of the Army through the build up to World War 2, by 1939 the new Garrison had been formed and by that time included the new Army Technical School. This change of use required the construction of substantial new workshops and education buildings together with new accommodation buildings and the addition of more traditional military facilities including parade grounds, sports facilities, mess buildings and more substantial development of substantial areas of former horse grazing paddocks. Upgrades to the former military facilities also included the replacement of the former sewerage works with a new upgraded and more substantial sewerage works on the eastern margin of the Garrison.

During this period of redevelopment, much of the proposed Open Space Parcels remained undeveloped and included areas of retained open space and soft landscaping along roadsides, together with forming parts of retained former horse grazing land which continued to be used for agricultural purposes independently of the Army.

A small brickworks is shown to have also been constructed to the west of the site in Whitehall Copse, potentially to supply bricks to the contractors building the additional facilities at the Garrison, with this brickworks shown to have subsequently closed and been redeveloped for housing, the former clay extraction pit having been used as a landfill site. Detailed records provided previously by the Local Authority in response to an Environmental Information Enquiry as part of the development of the residential parcels adjoining the landfill are appended.

Several phases of further development and improvement of the facilities at the Garrison continued through the 1960s, 1980's and 1990's with the Garrison subsequently also housing the School of Electronic Engineering, the Army Apprentices College, traditional barracks and the Royal Electrical and Mechanical Engineers. Additional facilities such as the ATOL building were also constructed for more specialist training, together with new education and accommodation buildings. It was during these phases of development and improvement that the lake that is located within the northern part of the Garrison was created by damming the small stream to create an emergency water store for firefighting.

The Garrison finally closed in 2015, following which most of the former military buildings have been demolished and cleared as part of the residential redevelopment of the site as part of the construction of Arborfield Green. The northern part of the site has been used as a film studio following closure of the military use, although this part of the former Garrison is due for imminent demolition and clearance as part of the phases of the construction of Arborfield Green.

On the basis of the history of the Garrison it is considered that potentially contaminative activities would have been carried out within the wider site, including the use, storage, dispensing and potential leakage and spillage of a wide range of potential fuels, oils, greases and solvents as part of mechanics workshop training. It is therefore important to consider the detailed history of each of the Open Space Parcels with respect to the historical use of each parcel in order to assess the potential for a contaminative history.

Parcels 1 & 2

These parcels were historically part of the Sheerlands Paddocks, which were a series of hay meadows and horse grazing paddocks that were not subject to military redevelopment prior the formation of the areas of residential development of the land to the north and south and the creation of the NMRE road directly to the south of these parcels. These parcels are not therefore considered to have a potentially contaminative history.

Parcels 3, 5, 10, 11, 12, 15 and the western part of Parcel 16

These parcels all comprise sections of roadside soft landscaping that were formed as part of the various phases of Garrison construction and have been left unaffected and unchanged by the subsequent residential redevelopment. As such these parcels are also not considered to have a potentially contaminated site history, other than the ongoing and continued presence of adjoining public roads and the associated potential risks associated with airborne pollutants from vehicles.

Parcel 6

Similar to parcels 1 and 2, this forms an area of former horse grazing to the south of the retained and refurbished Infirmary Stables which were used for the rehabilitation of injured or unwell horses. This paddock has not been subsequently developed as part of the Garrison and as such is not considered to have a potentially contaminative history.

Parcels 7 & 9 and parts of Parcels 4 & 17

These parcels form sections of surface water attenuation that have been formed either historically by the military, or as part of the initial stages of the residential development and are therefore not considered to have a potentially contaminative history.

Parcel 13 & 14

These parcels form part of the former Garrison sports pitches, with Parcel 13 comprising a series of rugby pitches, with tennis courts to the south of this parcel. Parcel 14 comprises the former cricket pitch and pavilion. Both of these parcels previously comprised areas of open agricultural land and other than landscaping works carried out to ensure a level a suitable playing surface, these parcels have not been previously developed and are therefore not considered to have a potentially contaminative history.

Parcel 8 and parts of Parcel 4

Whilst the majority of Parcel 8 is formed by an area of open space that was not developed as part of the original garrison development, the southeastern part of this parcel extends into an area of the site that was initially developed as part of the construction of the Army Apprentices College, with the buildings located within this part of the site understood to have been administration offices and school rooms.

The southern part of Parcel 8 adjoins the northern boundary to Parcel 4, with former buildings associated with the Army Apprentices College extending across the parcel boundary comprising residential accommodation buildings for the College.

Whilst parts of these parcels have been previously developed and subsequently demolished, they were not formerly part of the potentially contaminative activities that may have been carried out on this site. It is therefore considered that these parcels may have a potentially contaminative history by virtue of the previous development of the site, but that the risks are minimal due to the nature of this historical use within these parcels.

Eastern part of Parcel 16

Whilst the western part of this parcel has historically formed an area of roadside soft landscaping, the eastern part of this parcel was historically located in the vicinity of the original sewerage works that formed part of the original pre-1939 facilities. These former sewerage works were made redundant as part of the subsequent redevelopment and expansion of the Garrison and were demolished and cleared at that time.

Based on this historical development it is considered that this part of this parcel could have a contaminated land history through use as part of an above ground sewerage works. It is important to note however that biological contaminants would not be expected to be persistent and it is considered unlikely that these sewerage treatment facilities were in use for a sufficient length of time to allow for the accumulation of possible heavy metal contamination to be of significance. It is therefore considered that whilst this parcels may have a potentially contaminative history, the risks are minimal due to the nature of this historical use within these parcels an the time that has elapsed since the sewerage structures were demolished and cleared almost 90 years ago.

2.3 Environmental Setting

Searches of information provided by the Environment Agency have not indicated the presence of any indications of potentially significant issues of concern with regards to potential ground contamination in the vicinity. These searches have confirmed the military use of much of the surrounding area and have identified the presence of the former brickworks and subsequent landfilling.

The searches have also indicated the site to be located in an area where less than 1% of properties may be affected by radon, such that radon protection measures are not required as part of the redevelopment of this site.

The Geological Survey map of the area indicates the site and surroundings to be underlain by London Clay, with a tract of alluvium associated with the Barkham Brook present within Parcels 8. 9 and 10. Information provided by the Environment Agency indicates the alluvium to be classified as a Secondary superficial aquifer, with the London Clay classified as Unproductive Strata.

2.4 Other Information

Site walkover inspections of each of the Open Space Parcels did not indicate any indications of potential ground contamination, suspicious soils or any indications of stressed vegetation.

As part of the ground investigation works carried out on residential development parcels adjoining the Open Space Parcels no indications of ground contamination have been identified. Where localised ground contamination has been identified elsewhere within these adjoining parcels, it has been subject to remediation works as part of the residential development of these parcels and therefore is not considered to pose an ongoing contaminated land risk.

3.0 PRELIMINARY CONCEPTUAL MODEL

Part IIA of the Environmental Protection Act 1990, which was inserted into that Act by Section 57 of the Environment Act 1995, provides a regulatory regime for the identification and remediation of contaminated land. As part of the new regime local authorities are required to carry out inspections of their area to identify sites that may be contaminated. The determination of contaminated sites is based on a "suitable for use" approach which involves investigating the risks posed by contaminated land by making risk-based decisions. This risk assessment is carried out on the basis of establishing one or more "pollution linkages"; a pollution linkage requires a source of contamination, a sensitive target or receptor that is at risk from the contamination and a pathway by which the contamination can travel from the source to the target.

Current guidance to Local Planning Authorities also indicates the need for a conceptual model and risk assessment. Where development is proposed on land that may be affected by contamination, a risk assessment should be carried out for consideration by the LPA before the planning application is determined. Where unacceptable risks are identified proposals need to be made to address these risks as part of the development process. The guidance recognises the benefits of a phased approach, and the desk study is the first phase in the process of investigating and identifying contamination to assist in the determination of a planning application.

Whilst there are a range of potentially contaminative histories and the identified presence of soil contamination in locations within the wider Garrison site associated with historical workshops, fuel and oil storage tanks and oil/water interceptors, none of these are located in the vicinity of the Open Space Parcels. In addition, the historical landfilled former brick works clay extraction pit, which may present a source of potentially mobile ground contamination, is located remote from the Open Space Parcels and the intervening land has been extensively developed for housing.

The presence of negilgable permeability clay soils of the London Clay and the apparently localised tractor of negligible permeability alluvial soils associated with the Barkham Brook will effectively mitigate any migration of any potentially mobile ground contamination.

The proposed Open Space Parcels end use is considered to be commensurate with a Parks and Open Space associated with a Residential Development, although much of the areas of Open Space are effectively road side verges and as such likely to be less sensitive than this end use as people will not be anticipated to sit or play on road side verges, thereby reducing dermal contact and inhalation risk pathways.

4.0 PRELIMINARY ENVIRONMENTAL RISK ASSESSMENT

In accordance with the guidelines provided by CIRIA[1], the following table summarises possible pollution linkages for the site, on the basis of the proposed Open Space nearby Residential Development end use.

SOURCE	RECEPTOR	PATHWAY	PROBABILITY	CONSEQUENCE
Potential relic contamination associated with the historical use of the site	End users	Ingestion of contaminated soil or dust, through skin contact or inhalation	Low likelihood that relic contaminants may be present within the Open Space Parcels	Low
		Vapours	Unlikely, due to anticipated low volatility of any residual contaminants that could potentially be present.	Low
		Dermal Contact	Unlikely, All of the Open Space parcels are managed soft landscaping with minimal exposed soils	Low
	Construction workers	Ingestion of contaminated soil or dust, through skin contact or inhalation	Unlikely, construction works in the Open Space Parcels are limited to construction of new landscaping pathways and areas of managed planting. Construction workers would be expected to use appropriate PPE which would be expected to provide protection from any unforeseen contamination.	Low
		Vapours	Unlikely, due to anticipated low volatility of any residual contaminants that could potentially be present.	Low
	Future maintenance workers	Ingestion of contaminated soil or dust, through skin contact or inhalation	Unlikely, future maintenance works in the Open space Parcels would be expected to use appropriate PPE which would be expected to provide protection from any unforeseen contamination..	Low
		Vapours	Unlikely, due to anticipated low volatility of any residual contaminants that could potentially be present.	Low
	Ground water	Percolation and leaching of surface run-off	Negligible, due to anticipated low permeability of underlying clay soils	Mild

[1] *Rudland, DJ, Lancefield, RM and Mayell, PN (2001) Contaminated land risk assessment. A guide to good practice. CIRIA Pub C552*

This method of risk evaluation involves classification of the magnitude of the potential **consequence** (severity) and **probability** (likelihood) of the risk. The method by which these factors are classified is detailed in the CIRIA documentation.

On the basis of the consequence and probability the site can be attributed a level of risk, ranging from very low to moderate and the procedure for making this assessment is described in the CIRIA documentation. Using this rating system, the site has generally been regarded as having a LOW RISK.

5.0 CONCLUSIONS

The desk study indicates that there is a LOW RISK of the identified potentially sensitive receptors being impacted by any residual contamination that may be present within the Open Space Parcels and adjoining areas.

It would however be appropriate to maintain a geo-environmental watching brief during any ground works to be carried out within the Open Space Parcels in order that should any suspicious or contaminated soils be encountered they may be appropriately investigated, assessed and remediated as necessary.

Site workers and future maintenance workers should be made aware of the site history and the albeit limited potential for contamination to be present and a programme of working should be identified to protect workers handling any soil. The method of site working should be in accordance with guidelines set out by HSE and CIRIA and the requirements of the Local Authority Environmental Health Officer (EHO).

6.0 FURTHER WORK

As part of the geo-environmental watching brief for ground contamination that should be maintained by the contractor as part of any works carried out within the Open Space Parcels, in the unlikely event that contaminated or suspicious soils are identified, all works in the vicinity of the identified soils of concern should be halted and an inspection carried out by Wilson Bailey partnership as soon as possible. The suspicious or contaminated soils should then be investigated, sampled, tested and assessed in conjunction with discussions with the Regulatory Authorities in order to determine the requirement for any remediation as necessary.

APPENDIX

Updated GroundSure Geo-Insight Summary Report

Updated GroundSure Enviro-Insight Summary Report

Historical Maps

Environmental Information Enquiry response from West Berkshire & Wokingham BC

Updated Open Spaces Parcels Plan

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

Arborfield Green Development WBC Land

Order Details

Date: 01/06/2026

Your ref: crest chiltern

Our Ref: GS-KUL-Y9O-4FU-FK8

Site Details

Location: 476930 165536

Area: 27.31 ha

Authority: Wokingham Borough Council ↗

Site plan



Quick Links

Summary of findings p. 2 >

OS MasterMap site plan N/A: >10ha

Aerial image p. 9 >

Insight User Guide ↗

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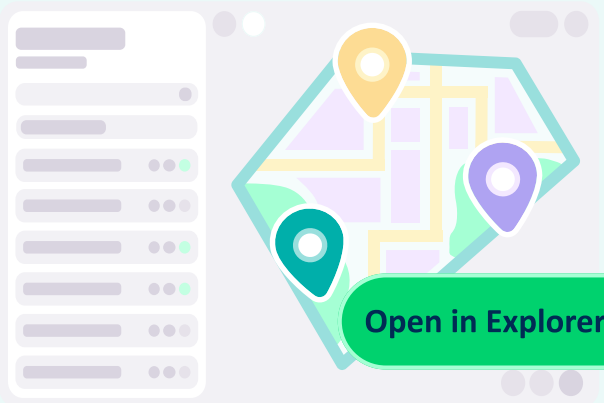

Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

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Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	13	6	16	5	-
16 >	1.2 >	Historical tanks >	3	7	17	6	-
18 >	1.3 >	Historical energy features >	0	2	18	9	-
19	1.4	Historical petrol stations	0	0	0	0	-
19	1.5	Historical garages	0	0	0	0	-
20	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
21 >	2.1 >	Historical industrial land uses >	18	10	20	5	-
23 >	2.2 >	Historical tanks >	4	10	33	12	-
26 >	2.3 >	Historical energy features >	0	4	25	19	-
28	2.4	Historical petrol stations	0	0	0	0	-
28	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
29	3.1	Active or recent landfill	0	0	0	0	-
29	3.2	Historical landfill (BGS records)	0	0	0	0	-
30 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	1	0	-
30 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	1	2	-
31 >	3.5 >	Historical waste sites >	0	0	0	2	-
31	3.6	Licensed waste sites	0	0	0	0	-
31 >	3.7 >	Waste exemptions >	0	3	5	65	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
38 >	4.1 >	Recent industrial land uses >	2	3	17	-	-
40	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
40	4.3	Current or recent petrol stations	0	0	0	0	-
40	4.4	Electricity cables	0	0	0	0	-
40	4.5	Gas pipelines	0	0	0	0	-

40	4.6	Sites determined as Contaminated Land	0	0	0	0	-
41	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
41	4.8	Regulated explosive sites	0	0	0	0	-
41	4.9	Hazardous substance storage/usage	0	0	0	0	-
41	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
41	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
42 >	4.12 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	1	-
42 >	4.13 >	Radioactive Substance Authorisations >	0	0	1	0	-
42 >	4.14 >	Licensed Discharges to controlled waters >	0	0	2	2	-
43	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
43	4.16	Pollutant release to public sewer	0	0	0	0	-
44	4.17	List 1 Dangerous Substances	0	0	0	0	-
44	4.18	List 2 Dangerous Substances	0	0	0	0	-
44 >	4.19 >	Pollution Incidents (EA/NRW) >	0	0	0	3	-
45	4.20	Pollution inventory substances	0	0	0	0	-
45	4.21	Pollution inventory waste transfers	0	0	0	0	-
45	4.22	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
46 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
47 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
49 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
51	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
51	5.5	Groundwater vulnerability- local information	None (within 0m)				
52 >	5.6 >	Groundwater abstractions >	0	0	0	0	2
53	5.7	Surface water abstractions	0	0	0	0	0
53	5.8	Potable abstractions	0	0	0	0	0
54	5.9	Source Protection Zones	0	0	0	0	-
54	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m

55 >	6.1 >	Water Network (OS NGD) >	56	41	33	-	-
66 >	6.2 >	Surface water features >	1	17	18	-	-
66 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
66 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
67 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
68 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
69	7.2	Historical Flood Events	0	0	0	-	-
69	7.3	Flood Defences	0	0	0	-	-
69	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
69	7.5	Flood Storage Areas	0	0	0	-	-
70 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
71 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
72 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
74 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
75 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	1	0
76	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
76	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
76	10.4	Special Protection Areas (SPA)	0	0	0	0	0
76	10.5	National Nature Reserves (NNR)	0	0	0	0	0
77 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	1	0
77 >	10.7 >	Designated Ancient Woodland >	0	1	5	4	76
82	10.8	Biosphere Reserves	0	0	0	0	0
82	10.9	Forest Parks	0	0	0	0	0
82	10.10	Marine Conservation Zones	0	0	0	0	0
82	10.11	Green Belt	0	0	0	0	0

83	10.12	Proposed Ramsar sites	0	0	0	0	0
83	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
83	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
83	10.15	Nitrate Sensitive Areas	0	0	0	0	0
84 >	10.16 >	Nitrate Vulnerable Zones >	1	1	0	0	0
85 >	10.17 >	SSSI Impact Risk Zones >	5	-	-	-	-
86 >	10.18 >	SSSI Units >	0	0	0	1	1
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
88	11.1	World Heritage Sites	0	0	0	-	-
89	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
89	11.3	National Parks	0	0	0	-	-
89 >	11.4 >	Listed Buildings >	0	0	1	-	-
90	11.5	Conservation Areas	0	0	0	-	-
90 >	11.6 >	Scheduled Ancient Monuments >	0	3	0	-	-
90	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
91 >	12.1 >	Agricultural Land Classification >	Grade 3b (within 250m)				
92	12.2	Open Access Land	0	0	0	-	-
92	12.3	Tree Felling Licences	0	0	0	-	-
92 >	12.4 >	Environmental Stewardship Schemes >	0	0	1	-	-
93 >	12.5 >	Countryside Stewardship Schemes >	0	2	1	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
94 >	13.1 >	Priority Habitat Inventory >	6	4	21	-	-
96 >	13.2 >	Habitat Networks >	0	0	1	-	-
96	13.3	Open Mosaic Habitat	0	0	0	-	-
96	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
97 >	14.1 >	10k Availability >	Identified (within 500m)				
98 >	14.2 >	Artificial and made ground (10k) >	1	5	5	3	-

100 >	14.3 >	Superficial geology (10k) >	1	0	0	0	-
101	14.4	Landslip (10k)	0	0	0	0	-
102 >	14.5 >	Bedrock geology (10k) >	2	1	0	0	-
103	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
104 >	15.1 >	50k Availability >	Identified (within 500m)				
105 >	15.2 >	Artificial and made ground (50k) >	0	0	2	0	-
106	15.3	Artificial ground permeability (50k)	0	0	-	-	-
107 >	15.4 >	Superficial geology (50k) >	1	0	0	0	-
108 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
108	15.6	Landslip (50k)	0	0	0	0	-
108	15.7	Landslip permeability (50k)	None (within 50m)				
109 >	15.8 >	Bedrock geology (50k) >	1	1	0	0	-
110 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
110	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
111 >	16.1 >	BGS Boreholes >	4	18	67	-	-
Page	Section	Natural ground subsidence >					
116 >	17.1 >	Shrink swell clays >	Low (within 50m)				
117 >	17.2 >	Running sands >	Low (within 50m)				
119 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
121 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
122 >	17.5 >	Landslides >	Very low (within 50m)				
123 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
125 >	18.1 >	BritPits >	0	0	1	2	-
126 >	18.2 >	Surface ground workings >	15	7	13	-	-
128	18.3	Underground workings	0	0	0	0	0
128	18.4	Underground mining extents	0	0	0	0	-

128 >	18.5 >	Historical Mineral Planning Areas >	0	1	0	0	-
129	18.6	Non-coal mining	0	0	0	0	0
129	18.7	JPB mining areas	None (within 0m)				
129	18.8	The Coal Authority non-coal mining	0	0	0	0	-
129 >	18.9 >	Researched mining >	1	0	0	0	-
130	18.10	Mining record office plans	0	0	0	0	-
130	18.11	BGS mine plans	0	0	0	0	-
130	18.12	Coal mining	None (within 0m)				
130	18.13	Brine areas	None (within 0m)				
130	18.14	Gypsum areas	None (within 0m)				
131	18.15	Tin mining	None (within 0m)				
131	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
132	19.1	Natural cavities	0	0	0	0	-
132	19.2	Mining cavities	0	0	0	0	0
132	19.3	Reported recent incidents	0	0	0	0	-
132	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
134 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
136 >	21.1 >	BGS Estimated Background Soil Chemistry >	16	5	-	-	-
137	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
137	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
138	22.1	Underground railways (London)	0	0	0	-	-
138	22.2	Underground railways (Non-London)	0	0	0	-	-
138	22.3	Railway tunnels	0	0	0	-	-
138	22.4	Historical railway and tunnel features	0	0	0	-	-
138	22.5	Royal Mail tunnels	0	0	0	-	-

139	22.6	Historical railways	0	0	0	-	-
139	22.7	Railways	0	0	0	-	-
139	22.8	Crossrail 2	0	0	0	0	-
139	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 30/04/2022

Site Area: 27.31ha

Recent site history - 2019 aerial photograph



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Capture Date: 29/06/2019

Site Area: 27.31ha

Recent site history - 2010 aerial photograph



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Capture Date: 25/09/2010

Site Area: 27.31ha

Recent site history - 2005 aerial photograph



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Capture Date: 19/06/2005

Site Area: 27.31ha

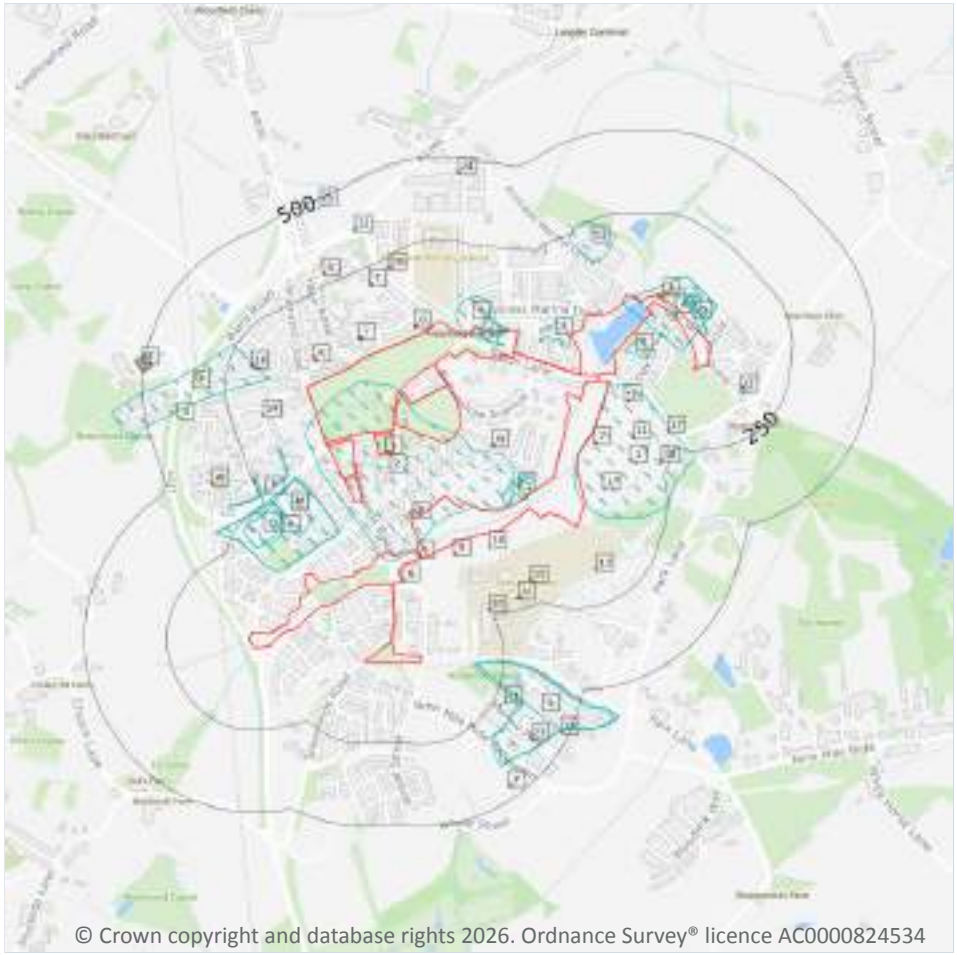
Recent site history - 1999 aerial photograph



Capture Date: 04/09/1999

Site Area: 27.31ha

1 Past land use



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

1.1 Historical industrial land uses

Records within 500m	40

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

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

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Barracks**	**1969 - 1979**	**1923535**

ID	Location	Land use	Dates present	Group ID
2	**On site**	**Unspecified Depot**	**1932 - 1938**	**1979943**
A	**On site**	**Unspecified Works**	**1961**	**1890887**
A	**On site**	**Disused Sewage Works**	**1969**	**1891977**
A	**On site**	**Unspecified Tanks**	**1961 - 1969**	**1945626**
B	**On site**	**Unspecified Tank**	**1910**	**1892362**
C	**On site**	**Filter Beds**	**1938**	**1942418**
C	**On site**	**Filter Beds**	**1932**	**1947370**
D	**On site**	**Rifle Range**	**1979**	**1945485**
D	**On site**	**Rifle Range**	**1988**	**1945864**
E	**On site**	**Unspecified Tank**	**1932 - 1938**	**1962213**
E	**On site**	**Filter Beds**	**1932**	**1982276**
E	**On site**	**Filter Beds**	**1938**	**1985818**
F	3m W	Unspecified Heap	1988	1895046
C	3m N	Filter Beds	1932	1931701
8	21m SE	Unspecified Heap	1988	1895047
C	36m NW	Sewage Tanks	1932	1999451
D	36m NE	Unspecified Tanks	1961 - 1969	1922541
C	37m NW	Sewage Tanks	1938	1991780
H	52m NW	Unspecified Works	1961	1890888
H	52m NW	Brick and Tile Works	1988	1951560
H	52m NW	Brick and Tile Works	1969 - 1979	1996714
D	69m NE	Unspecified Tanks	1961	1890224
M	105m SW	Brick Works	1938	1897455
O	116m SE	Unspecified Tanks	1932 - 1938	1963217
P	117m W	Barracks	1969 - 1979	1976916
12	128m NW	Unspecified Heap	1988	1895048
Q	136m NW	Clay Pit	1988	1921358
Q	136m NW	Clay Pit	1969 - 1979	1978291

ID	Location	Land use	Dates present	Group ID
R	138m W	Unspecified Ground Workings	1969	1879822
Q	152m NW	Unspecified Pit	1961	1901877
S	153m E	Unspecified Works	1960	1958628
S	163m E	Unspecified Works	1978	1940103
S	164m E	Brick Works	1938	1897456
M	175m SW	Chimney	1988	1909618
22	366m NW	Unspecified Tank	1961	1892365
Y	457m SE	Unspecified Tank	1978	1892363
25	474m NW	Brick Kiln	1898	1909485
Z	476m W	Electricity Transformer Station	1979	1928758
Z	476m W	Electricity Transformer Station	1988	1998242

This data is sourced from Ordnance Survey® / Groundsure.

1.2 Historical tanks

Records within 500m	**33**

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 14 >**

ID	Location	Land use	Dates present	Group ID
3	**On site**	**Unspecified Tank**	**1968**	**326667**
4	**On site**	**Settling Tanks**	**1968**	**326942**
5	**On site**	**Unspecified Tank**	**1968 - 1976**	**330675**
6	6m NE	Unspecified Tank	1968 - 1976	336943
7	20m SE	Unspecified Tank	1968 - 1976	333884
9	25m SE	Unspecified Tank	1968 - 1976	336405
B	30m W	Unspecified Tank	1911	326660

ID	Location	Land use	Dates present	Group ID
C	34m NW	Sewage Tanks	1933	319108
E	37m N	Unspecified Tank	1933	326662
10	38m S	Unspecified Tank	1968	326671
F	58m N	Unspecified Tank	1968 - 1993	339835
J	67m E	Unspecified Tank	1968 - 1976	328128
L	68m E	Unspecified Tank	1968	326670
L	105m E	Unspecified Tank	1976 - 1993	339413
11	115m E	Unspecified Tank	1968 - 1976	329266
O	121m SE	Tanks	1933	318581
13	138m SE	Unspecified Tank	1968	326672
14	148m W	Unspecified Tank	1968 - 1976	336456
M	164m SW	Unspecified Tank	1968	326669
15	172m SE	Unspecified Tank	1968 - 1976	339743
16	176m W	Unspecified Tank	1968 - 1976	331719
17	201m SW	Unspecified Tank	1968 - 1976	340984
U	210m S	Tanks	1987	328105
U	210m S	Tanks	1968 - 1976	327531
U	212m S	Unspecified Tank	1976	326666
19	221m E	Unspecified Tank	1968 - 1976	328843
20	221m SE	Unspecified Tank	1968 - 1976	337645
P	316m W	Unspecified Tank	1968 - 1976	338866
P	332m W	Unspecified Tank	1968	326673
X	394m W	Unspecified Tank	1968 - 1976	327435
X	411m W	Unspecified Tank	1968	326674
24	453m N	Tanks	1968 - 1978	342764
Y	458m SE	Unspecified Tank	1984 - 1991	341019

This data is sourced from Ordnance Survey® / Groundsure.

1.3 Historical energy features

Records within 500m	29

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 14 >**

ID	Location	Land use	Dates present	Group ID
G	26m NW	Electricity Substation	1976 - 1999	218101
G	27m NW	Electricity Substation	-	206885
I	55m NW	Electricity Substation	1976	218446
I	55m NW	Electricity Substation	1987	213559
I	56m NW	Electricity Substation	1999	221530
I	56m NW	Electricity Substation	-	206887
J	63m E	Electricity Substation	1976	210013
K	64m NW	Electricity Substation	1999	211636
K	65m NW	Electricity Substation	1976	215404
K	65m NW	Electricity Substation	1987	215741
K	66m NW	Electricity Substation	-	206886
N	114m SE	Electricity Substation	1993	212006
N	117m SE	Electricity Substation	1968 - 1976	227384
N	117m SE	Electricity Substation	1987	223459
M	146m SW	Electricity Substation	1999	210007
T	196m NW	Electricity Substation	1978 - 1987	231578
T	196m NW	Electricity Substation	1993 - 1996	225782
18	217m NW	Electricity Substation	1978	208916
R	245m SW	Electricity Substation	1976 - 1999	232031
R	245m SW	Electricity Substation	-	207037
21	280m SE	Electricity Substation	1991	210014

ID	Location	Land use	Dates present	Group ID
V	280m NW	Electricity Substation	1978 - 1987	211677
V	281m NW	Electricity Substation	1993 - 1996	232289
W	364m W	Electricity Substation	-	207036
W	364m W	Electricity Substation	1976 - 1999	232695
P	365m W	Electricity Substation	1968	208915
23	406m SE	Electricity Substation	1987 - 1991	224354
26	475m SE	Electricity Substation	1987 - 1991	220509
Z	477m W	Electricity Substation	1995	221772

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	0

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

This data is sourced from Ordnance Survey® / Groundsure.

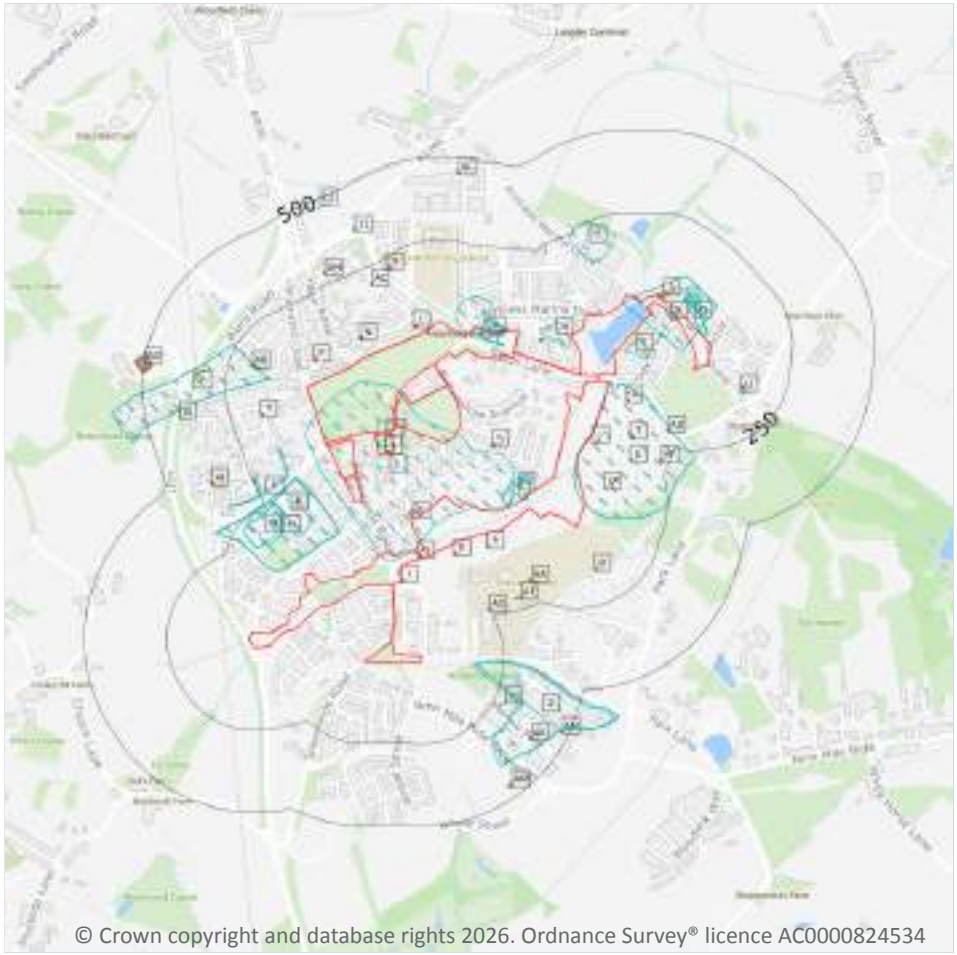
1.6 Historical military land

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



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

2.1 Historical industrial land uses

Records within 500m	53

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 21 >**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Unspecified Depot**	**1938**	**1979943**
2	**On site**	**Unspecified Depot**	**1932**	**1979943**
A	**On site**	**Filter Beds**	**1938**	**1985818**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Tank**	**1938**	**1962213**
A	**On site**	**Filter Beds**	**1932**	**1982276**
A	**On site**	**Filter Beds**	**1932**	**1982276**
B	**On site**	**Filter Beds**	**1938**	**1942418**
B	**On site**	**Filter Beds**	**1932**	**1947370**
B	**On site**	**Filter Beds**	**1932**	**1947370**
C	**On site**	**Unspecified Tank**	**1910**	**1892362**
D	**On site**	**Rifle Range**	**1988**	**1945864**
D	**On site**	**Rifle Range**	**1979**	**1945485**
E	**On site**	**Barracks**	**1969**	**1923535**
E	**On site**	**Barracks**	**1979**	**1923535**
F	**On site**	**Unspecified Tanks**	**1969**	**1945626**
F	**On site**	**Disused Sewage Works**	**1969**	**1891977**
F	**On site**	**Unspecified Works**	**1961**	**1890887**
F	**On site**	**Unspecified Tanks**	**1961**	**1945626**
H	3m W	Unspecified Heap	1988	1895046
B	3m N	Filter Beds	1932	1931701
B	3m N	Filter Beds	1932	1931701
5	21m SE	Unspecified Heap	1988	1895047
A	25m N	Unspecified Tank	1932	1962213
B	36m NW	Sewage Tanks	1932	1999451
B	36m NW	Sewage Tanks	1932	1999451
D	36m NE	Unspecified Tanks	1961	1922541
B	37m NW	Sewage Tanks	1938	1991780
D	37m NE	Unspecified Tanks	1969	1922541
M	52m NW	Brick and Tile Works	1988	1951560
M	52m NW	Brick and Tile Works	1969	1996714
M	52m NW	Brick and Tile Works	1979	1996714

ID	Location	Land Use	Date	Group ID
M	52m NW	Unspecified Works	1961	1890888
D	69m NE	Unspecified Tanks	1961	1890224
R	105m SW	Brick Works	1938	1897455
U	116m SE	Unspecified Tanks	1938	1963217
V	117m W	Barracks	1969	1976916
V	117m W	Barracks	1979	1976916
U	121m SE	Unspecified Tanks	1932	1963217
7	128m NW	Unspecified Heap	1988	1895048
W	136m NW	Clay Pit	1988	1921358
W	136m NW	Clay Pit	1969	1978291
W	136m NW	Clay Pit	1979	1978291
X	138m W	Unspecified Ground Workings	1969	1879822
W	152m NW	Unspecified Pit	1961	1901877
Z	153m E	Unspecified Works	1960	1958628
Z	163m E	Unspecified Works	1978	1940103
Z	164m E	Brick Works	1938	1897456
R	175m SW	Chimney	1988	1909618
11	366m NW	Unspecified Tank	1961	1892365
AM	457m SE	Unspecified Tank	1978	1892363
12	474m NW	Brick Kiln	1898	1909485
AO	476m W	Electricity Transformer Station	1988	1998242
AO	476m W	Electricity Transformer Station	1979	1928758

This data is sourced from Ordnance Survey® / Groundsure.

2.2 Historical tanks

Records within 500m	**59**

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 21 >**

ID	Location	Land Use	Date	Group ID
3	**On site**	**Settling Tanks**	**1968**	**326942**
4	**On site**	**Unspecified Tank**	**1968**	**326667**
G	**On site**	**Unspecified Tank**	**1976**	**330675**
G	**On site**	**Unspecified Tank**	**1968**	**330675**
I	6m NE	Unspecified Tank	1976	336943
I	6m NE	Unspecified Tank	1968	336943
J	20m SE	Unspecified Tank	1968	333884
J	21m SE	Unspecified Tank	1976	333884
K	25m SE	Unspecified Tank	1976	336405
K	25m SE	Unspecified Tank	1968	336405
C	30m W	Unspecified Tank	1911	326660
B	34m NW	Sewage Tanks	1933	319108
A	37m N	Unspecified Tank	1933	326662
6	38m S	Unspecified Tank	1968	326671
H	58m N	Unspecified Tank	1976	339835
H	58m N	Unspecified Tank	1968	339835
H	59m N	Unspecified Tank	1987	339835
H	62m N	Unspecified Tank	1993	339835
H	62m N	Unspecified Tank	1993	339835
O	67m E	Unspecified Tank	1976	328128
O	67m E	Unspecified Tank	1968	328128
Q	68m E	Unspecified Tank	1968	326670
Q	105m E	Unspecified Tank	1987	339413
Q	107m E	Unspecified Tank	1993	339413
Q	107m E	Unspecified Tank	1993	339413
Q	108m E	Unspecified Tank	1976	339413
T	115m E	Unspecified Tank	1976	329266

ID	Location	Land Use	Date	Group ID
T	115m E	Unspecified Tank	1968	329266
U	121m SE	Tanks	1933	318581
8	138m SE	Unspecified Tank	1968	326672
Y	148m W	Unspecified Tank	1976	336456
Y	148m W	Unspecified Tank	1968	336456
R	164m SW	Unspecified Tank	1968	326669
AA	172m SE	Unspecified Tank	1976	339743
AA	172m SE	Unspecified Tank	1968	339743
AB	176m W	Unspecified Tank	1976	331719
AB	176m W	Unspecified Tank	1968	331719
AD	201m SW	Unspecified Tank	1976	340984
AD	201m SW	Unspecified Tank	1968	340984
AE	210m S	Tanks	1987	328105
AE	210m S	Tanks	1976	327531
AE	210m S	Tanks	1968	327531
AE	212m S	Unspecified Tank	1976	326666
AF	221m E	Unspecified Tank	1976	328843
AF	221m E	Unspecified Tank	1968	328843
AG	221m SE	Unspecified Tank	1976	337645
AG	221m SE	Unspecified Tank	1968	337645
V	316m W	Unspecified Tank	1976	338866
V	316m W	Unspecified Tank	1968	338866
V	332m W	Unspecified Tank	1968	326673
AJ	394m W	Unspecified Tank	1976	327435
AJ	394m W	Unspecified Tank	1968	327435
AJ	411m W	Unspecified Tank	1968	326674
AL	453m N	Tanks	1968	342764
AL	454m N	Tanks	1978	342764

ID	Location	Land Use	Date	Group ID
AM	458m SE	Unspecified Tank	1984	341019
AM	458m SE	Unspecified Tank	1987	341019
AM	458m SE	Unspecified Tank	1988	341019
AM	458m SE	Unspecified Tank	1991	341019

This data is sourced from Ordnance Survey® / Groundsure.

2.3 Historical energy features

Records within 500m	**48**

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 21 >**

ID	Location	Land Use	Date	Group ID
L	26m NW	Electricity Substation	1999	218101
L	26m NW	Electricity Substation	1976	218101
L	27m NW	Electricity Substation	1987	218101
L	27m NW	Electricity Substation	-	206885
N	55m NW	Electricity Substation	1976	218446
N	55m NW	Electricity Substation	1987	213559
N	56m NW	Electricity Substation	1999	221530
N	56m NW	Electricity Substation	-	206887
O	63m E	Electricity Substation	1976	210013
P	64m NW	Electricity Substation	1999	211636
P	65m NW	Electricity Substation	1976	215404
P	65m NW	Electricity Substation	1987	215741
P	66m NW	Electricity Substation	-	206886
S	114m SE	Electricity Substation	1993	212006
S	115m SE	Electricity Substation	1993	212006
S	117m SE	Electricity Substation	1976	227384

ID	Location	Land Use	Date	Group ID
S	117m SE	Electricity Substation	1968	227384
S	117m SE	Electricity Substation	1987	223459
R	146m SW	Electricity Substation	1999	210007
AC	196m NW	Electricity Substation	1978	231578
AC	196m NW	Electricity Substation	1987	231578
AC	196m NW	Electricity Substation	1996	225782
AC	196m NW	Electricity Substation	1993	225782
AC	196m NW	Electricity Substation	1993	225782
9	217m NW	Electricity Substation	1978	208916
X	245m SW	Electricity Substation	1999	232031
X	245m SW	Electricity Substation	-	207037
X	246m SW	Electricity Substation	1976	232031
X	247m SW	Electricity Substation	1987	232031
10	280m SE	Electricity Substation	1991	210014
AH	280m NW	Electricity Substation	1978	211677
AH	280m NW	Electricity Substation	1987	211677
AH	281m NW	Electricity Substation	1996	232289
AH	281m NW	Electricity Substation	1993	232289
AH	281m NW	Electricity Substation	1993	232289
AI	364m W	Electricity Substation	-	207036
AI	364m W	Electricity Substation	1999	232695
AI	365m W	Electricity Substation	1976	232695
V	365m W	Electricity Substation	1968	208915
AI	366m W	Electricity Substation	1987	232695
AK	406m SE	Electricity Substation	1987	224354
AK	406m SE	Electricity Substation	1988	224354
AK	406m SE	Electricity Substation	1991	224354
AN	475m SE	Electricity Substation	1987	220509

ID	Location	Land Use	Date	Group ID
AN	475m SE	Electricity Substation	1988	220509
AN	475m SE	Electricity Substation	1991	220509
AO	477m W	Electricity Substation	1995	221772
AO	477m W	Electricity Substation	1995	221772

This data is sourced from Ordnance Survey® / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey® / Groundsure.

2.5 Historical garages

Records within 500m	0

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

This data is sourced from Ordnance Survey® / Groundsure.

3 Waste and landfill



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Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Historical landfill (LA/OS)

Historical 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	1

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

Features are displayed on the Waste and landfill map on **page 29 >**

ID	Location	Site address	Source	Data type
D	141m NW	Whitehall Brick works, Arborfield	Historical Maps	Point

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	3

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

Features are displayed on the Waste and landfill map on **page 29 >**

ID	Location	Details		
D	134m NW	Site Address: Whitehall Brickworks, Arborfield Licence Holder Address: -	Waste Licence: - Site Reference: 54/12/5/8, WOK12 Waste Type: Inert, Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded 31/12/1981 Last Recorded: 31/12/1982
3	307m SE	Site Address: Moor Farm, Finchampstead Licence Holder Address: -	Waste Licence: Yes Site Reference: 54/12/4/230, WOK27 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 31/03/1988 Licence Surrender: 25/04/1994	Operator: - Licence Holder: T N Chivers Esquire First Recorded 31/12/1987 Last Recorded: 25/04/1994
6	466m SE	Site Address: Coleshill Farm, Finchampstead Licence Holder Address: -	Waste Licence: Yes Site Reference: WOK25, 54/12/4/188 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 14/09/1984 Licence Surrender: 23/10/1990	Operator: - Licence Holder: D R Walker Plant Hire (Reading) Limited First Recorded 31/12/1984 Last Recorded: 31/12/1989

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

3.5 Historical waste sites

Records within 500m	2

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 29 >**

ID	Location	Address	Further Details	Date
J	485m W	Site Address: N/A	Type of Site: Breaker's Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1995
J	485m W	Site Address: N/A	Type of Site: Breaker's Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1995

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	73

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 29 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	5m NE	-	WEX156524	Using waste exemption	Not on a farm	Use of waste in construction
A	5m NE	-	WEX156524	Treating waste exemption	Not on a farm	Screening and blending of waste

ID	Location	Site	Reference	Category	Sub-Category	Description
1	21m SE	-	WEX263765	Using waste exemption	Not on a farm	Use of waste in construction
B	51m N	-	WEX156500	Treating waste exemption	Not on a farm	Screening and blending of waste
B	51m N	-	WEX156500	Using waste exemption	Not on a farm	Use of waste in construction
C	55m NE	Natta Building Company, Biggs Lane, Arborfield, Rg29ln	WEX152659	Treating waste exemption	Not on a farm	Screening and blending of waste
C	55m NE	Natta Building Company, Biggs Lane, Arborfield, Rg29ln	WEX136429	Using waste exemption	Not on a farm	Use of waste in construction
B	57m NW	-	WEX369917	Using waste exemption	Not on a farm	Use of waste in construction
2	268m S	-	WEX270761	Using waste exemption	Not on a farm	Use of waste in construction
E	272m NW	Hazebrouck Barracks Reading Rg2 9nh	EPR/BF0736EV/A001	Treating waste exemption	Non-agricultural waste only	Aerobic composting and associated prior treatment
E	272m NW	Hazebrouck Barracks Reading Rg2 9nh	EPR/BF0736EV/A001	Treating waste exemption	Non-agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
E	273m NW	-	WEX401140	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
E	273m NW	-	WEX401140	Using waste exemption	Not on a farm	Use of mulch
E	273m NW	-	WEX401140	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
E	273m NW	-	WEX401140	Treating waste exemption	Not on a farm	Aerobic composting and associated prior treatment
E	273m NW	-	WEX273096	Using waste exemption	Not on a farm	Use of mulch
E	273m NW	Arborfield Garrison, Reading, Berks, Rg2 9nh	WEX133895	Treating waste exemption	Not on a farm	Aerobic composting and associated prior treatment

ID	Location	Site	Reference	Category	Sub-Category	Description
E	273m NW	Arborfield Garrison, Reading, Berks, Rg2 9nh	WEX133895	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
E	273m NW	Arborfield Garrison, Reading, Berks, Rg2 9nh	WEX134560	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
E	273m NW	Arborfield Garrison, Reading, Berks, Rg2 9nh	WEX133895	Using waste exemption	Not on a farm	Use of mulch
E	273m NW	-	WEX273096	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
E	273m NW	-	WEX273096	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
E	273m NW	-	WEX273096	Treating waste exemption	Not on a farm	Aerobic composting and associated prior treatment
E	274m NW	Arborfield Garrison Berks Rg2 9nh	EPR/HF0604HV/A001	Treating waste exemption	Non-agricultural waste only	Aerobic composting and associated prior treatment
E	274m NW	Arborfield Garrison Berks Rg2 9nh	EPR/HF0604HV/A001	Using waste exemption	Non-agricultural waste only	Use of mulch
4	313m S	-	WEX265686	Using waste exemption	On a farm	Use of waste in construction
F	338m E	-	WEX193988	Using waste exemption	On a farm	Use of waste in construction
F	338m E	-	WEX193988	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
F	338m E	-	WEX193988	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	338m E	-	WEX193988	Disposing of waste exemption	On a farm	Burning waste in the open
F	338m E	Highbarn Farm Commonfield Lane Wokingham Berkshire Rg40 4pr	EPR/FH0179NG/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open

ID	Location	Site	Reference	Category	Sub-Category	Description
F	338m E	Highbarn Farm Commonfield Lane Wokingham Berkshire Rg40 4pr	EPR/FH0179NG/A001	Using waste exemption	Agricultural waste only	Use of waste in construction
F	338m E	Highbarn Farm Commonfield Lane Wokingham Berkshire Rg40 4pr	EPR/FH0179NG/A001	Using waste exemption	Agricultural waste only	Spreading of plant matter to confer benefit
F	338m E	-	WEX326295	Using waste exemption	On a farm	Use of waste in construction
F	338m E	-	WEX326295	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
F	338m E	-	WEX326295	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	338m E	-	WEX326295	Disposing of waste exemption	On a farm	Burning waste in the open
G	341m SE	B6 Falcon Business Park 28 Ivanhoe Road Wokingham Rg40 4qq	EPR/BE5442HT/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in secure containers
G	341m SE	B6 Falcon Business Park 28 Ivanhoe Road Wokingham Rg40 4qq	EPR/BE5442HT/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
G	345m SE	28-29, Ivanhoe Road, Hogwood Industrial Estate, Finchampstead, Wokingham, Rg40 4qq	WEX259782	Storing waste exemption	Not on a farm	Storage of waste in secure containers
G	345m SE	28-29, Ivanhoe Road, Hogwood Industrial Estate, Finchampstead, Wokingham, Rg40 4qq	WEX259782	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	345m SE	28-29, Ivanhoe Road, Hogwood Industrial Estate, Finchampstead, Wokingham, Rg40 4qq	WEX118800	Storing waste exemption	Not on a farm	Storage of waste in secure containers
G	345m SE	28-29, Ivanhoe Road, Hogwood Industrial Estate, Finchampstead, Wokingham, Rg40 4qq	WEX118800	Storing waste exemption	Not on a farm	Storage of waste in a secure place

ID	Location	Site	Reference	Category	Sub-Category	Description
G	345m SE	28-29, Ivanhoe Road, Hogwood Industrial Estate, Finchampstead, Wokingham, Rg40 4qq	WEX387705	Storing waste exemption	Not on a farm	Storage of waste in a secure place
F	349m E	Highbarn Farm, Commonfield Lane, Barkham, Wokingham, Rg40 4pr	WEX038999	Disposing of waste exemption	On a farm	Burning waste in the open
F	349m E	Highbarn Farm, Commonfield Lane, Barkham, Wokingham, Rg40 4pr	WEX038999	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
F	349m E	Highbarn Farm, Commonfield Lane, Barkham, Wokingham, Rg40 4pr	WEX038999	Using waste exemption	On a farm	Use of waste in construction
F	349m E	Highbarn Farm, Commonfield Lane, Barkham, Wokingham, Rg40 4pr	WEX038999	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
F	349m E	Highbarn Farm, Commonfield Lane, Barkham, Wokingham, Rg40 4pr	WEX130576	Using waste exemption	On a farm	Use of waste for a specified purpose
5	391m S	-	WEX465562	Using waste exemption	Not on a farm	Use of waste in construction
H	405m SE	Hogwood Farm, The Farm House, Sheerlands Road, Finchampstead, Wokingham, Rg40 4qy	WEX154784	Using waste exemption	Not on a farm	Use of waste in construction
H	420m SE	-	WEX374633	Using waste exemption	Not on a farm	Use of waste in construction
I	441m NW	-	WEX249554	Using waste exemption	Not on a farm	Use of waste in construction
I	441m NW	-	WEX255002	Using waste exemption	Not on a farm	Use of waste in construction
I	441m NW	-	WEX255007	Using waste exemption	Not on a farm	Use of waste in construction
I	442m NW	-	WEX270844	Treating waste exemption	Not on a farm	Screening and blending of waste

ID	Location	Site	Reference	Category	Sub-Category	Description
I	442m NW	-	WEX271072	Using waste exemption	Not on a farm	Use of waste in construction
I	446m NW	-	WEX253449	Using waste exemption	Not on a farm	Use of waste in construction
I	464m NW	-	WEX270939	Treating waste exemption	Not on a farm	Screening and blending of waste
I	483m NW	-	WEX247516	Using waste exemption	Not on a farm	Use of waste in construction
K	498m W	Parsons Farm Reading Rg7 1uy	EPR/TE5985LL/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
K	498m W	Parsons Farm Reading Rg7 1uy	EPR/TE5985LL/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
K	498m W	Parsons Farm Reading Rg7 1uy	EPR/TE5985LL/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
K	498m W	Parsons Farm Reading Rg7 1uy	EPR/TE5985LL/A001	Storing waste exemption	Agricultural waste only	Storage of waste in a secure place
K	498m W	Parsons Farm Reading Rg7 1uy	EPR/TE5985LL/A001	Treating waste exemption	Agricultural waste only	Aerobic composting and associated prior treatment
K	498m W	Parsons Farm Reading Rg7 1uy	EPR/TE5985LL/A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
K	498m W	Parsons Farm Reading Rg7 1uy	EPR/TE5985LL/A001	Using waste exemption	Agricultural waste only	Use of waste in construction
K	498m W	Parsons Farm Reading Rg7 1uy	EPR/TE5985LL/A001	Using waste exemption	Agricultural waste only	Spreading of plant matter to confer benefit
K	498m W	Parsons Farm Reading Rg7 1uy	EPR/TE5985LL/A001	Using waste exemption	Agricultural waste only	Burning of waste as a fuel in a small appliance
K	498m W	Parsons Farm Reading Rg7 1uy	EPR/TE5985LL/A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
K	498m W	Parsons Farm Reading Rg7 1uy	EPR/TE5985LL/A001	Disposing of waste exemption	Non-agricultural waste only	Deposit of waste from a portable sanitary convenience

ID	Location	Site	Reference	Category	Sub-Category	Description
K	498m W	Parsons Farm Reading Rg7 1uy	EPR/TE5985LL /A001	Storing waste exemption	Non-agricultural waste only	Storage of sludge
K	498m W	Parsons Farm Reading Rg7 1uy	EPR/TE5985LL /A001	Treating waste exemption	Agricultural waste only	Preparatory treatments (baling, sorting, shredding etc)

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

4 Current industrial land use



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Site Outline

Search buffers in metres (m)

Recent industrial land uses

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

Radioactive Substance Authorisations

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	22

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 38 >**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Electricity Sub Station**	**Berkshire, RG2**	**Electrical Features**	**Infrastructure and Facilities**
2	**On site**	**Jetty**	**Berkshire, RG2**	**Moorings and Unloading Facilities**	**Water**
3	17m E	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
4	22m E	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities
5	30m NW	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities
6	57m NW	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities
7	62m NW	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities
8	68m E	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities
9	72m E	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities
10	76m W	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities
11	80m E	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities
12	81m NE	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities
14	99m N	J & C K Ltd	18, Barker Close, Arborfield, Berkshire, RG2 9NQ	Container and Storage	Transport, Storage and Delivery
15	104m NW	Pylon	Berkshire, RG7	Electrical Features	Infrastructure and Facilities
16	111m S	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities
17	120m SE	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities
18	132m E	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities
19	144m SW	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities
20	198m NW	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities
23	226m S	Pylon	Berkshire, RG7	Electrical Features	Infrastructure and Facilities
24	230m SW	Electricity Sub Station	Berkshire, RG2	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
25	240m N	Electricity Sub Station	Berkshire, RG40	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey®.

4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m	0

Current or recent tanks identified from the Ordnance Survey® NGD.

This data is sourced from Ordnance Survey®.

4.3 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 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.

4.7 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.

4.8 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.

4.9 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.

4.10 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.

4.11 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.

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

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 38 >**

ID	Location	Address	Details	
27	349m SE	Kumarlo Bodyworks Ltd, Unit 1, Ivanhoe Rd, Hogwood Industrial Estate, Finchampstead, RG40 4QQ	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.13 Radioactive Substance Authorisations

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 38 >**

ID	Location	Address	Details	
21	212m N	Ministry Of Defence, School Of Electronic Engineering,hazelbrouck Barracks,aborfield, Reading, Berkshire, RG2 9NH	Operator: Ministry Of Defence Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AM4762 Date of approval: 31/03/1991	Effective from: 31/03/1991 Last date of update: 01/01/2015 Status: Superseded By Variation

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

4.14 Licensed Discharges to controlled waters

Records within 500m	4

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 38 >**

ID	Location	Address	Details	
13	87m E	ARBORFIELD GARRISON, ARBORFIELD NEAR READING, BERKSHIRE	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CATM.2572 Permit Version: 1 Receiving Water: TRIBUTARY OFTHE BARKHAMBROOK	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 19/12/1996 Effective Date: 19/12/1996 Revocation Date: -
22	220m SE	WINDMILL FARM COTTAGE, COMMONFIELD LANE, BARKHAM, WOKINGHAM, BERKSHIRE, RG40 4PP	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0785 Permit Version: 1 Receiving Water: LAND AND TRIB OF LONGMOOR LAKE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 21/02/2003 Effective Date: 06/02/2003 Revocation Date: -
26	300m E	BROOK FARM, COMMONFIELD LANE, BARKH, BROOK FARM, COMMONFIELD LANE, BARKHAM, WOKINGHAM, BERKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTCU.1396 Permit Version: 1 Receiving Water: SAND (LWR BAGSHOT BEDS) STRATA	Status: TRANSFERRED FROM WRA 1963 Issue date: 03/06/1985 Effective Date: 03/06/1985 Revocation Date: -
30	420m E	PARK LANE SAWMILLS, PARK LANE, FINC, FINCHAMPSTEAD, BERKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CATM.2539 Permit Version: 1 Receiving Water: TRIB OF LONGMOOR STREAM	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 28/11/1996 Effective Date: 28/11/1996 Revocation Date: -

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

4.15 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.

4.16 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.

4.17 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.

4.18 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.

4.19 Pollution Incidents (EA/NRW)

Records within 500m	3

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 38 >**

ID	Location	Details	
28	418m W	Incident Date: 04/07/2002 Incident Identification: 89192 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
29	420m W	Incident Date: 08/01/2002 Incident Identification: 51296 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
31	461m SE	Incident Date: 05/04/2002 Incident Identification: 69193 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.20 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.

4.21 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.

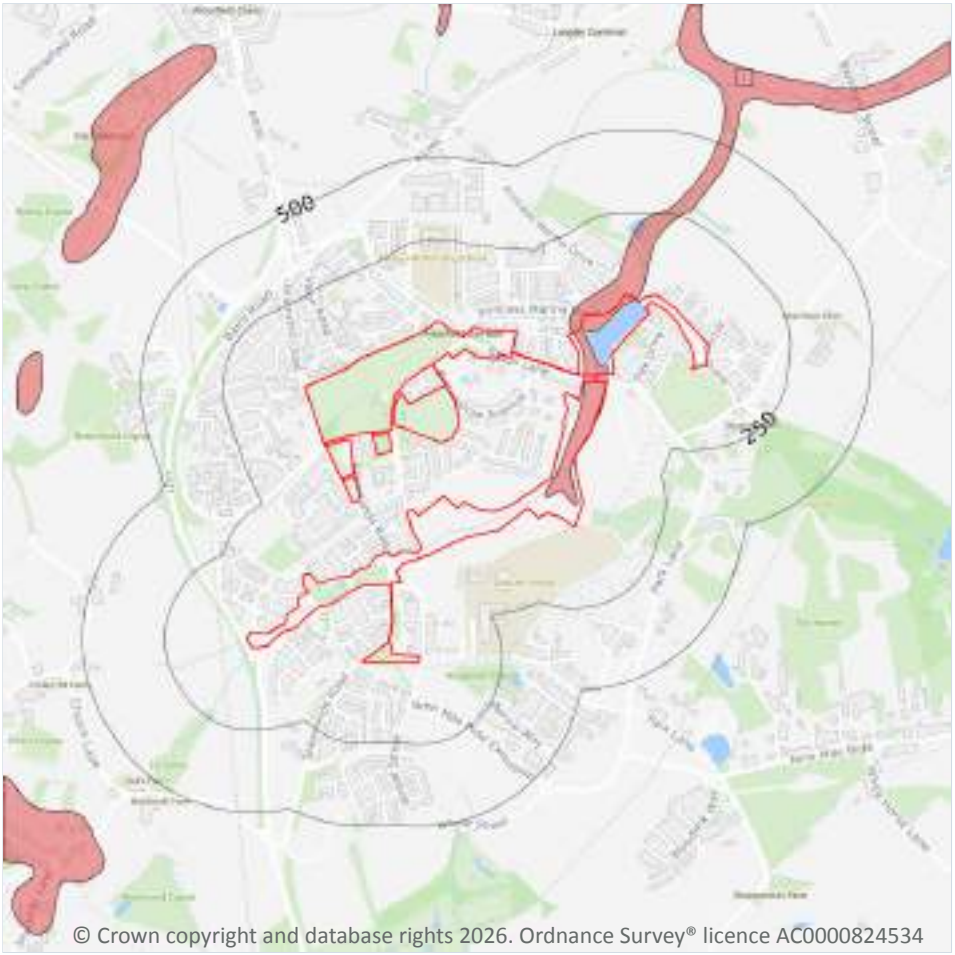
4.22 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	1

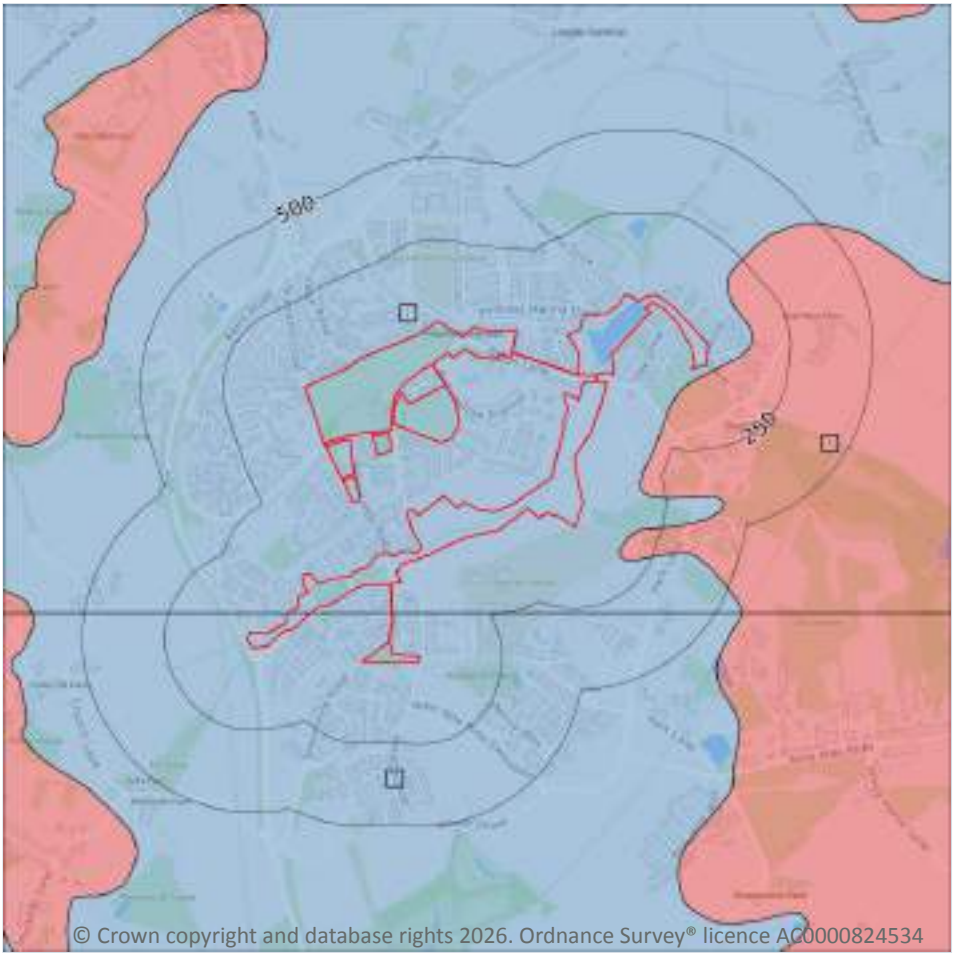
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 46 >**

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

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	3

Aquifer status of groundwater held within bedrock geology.

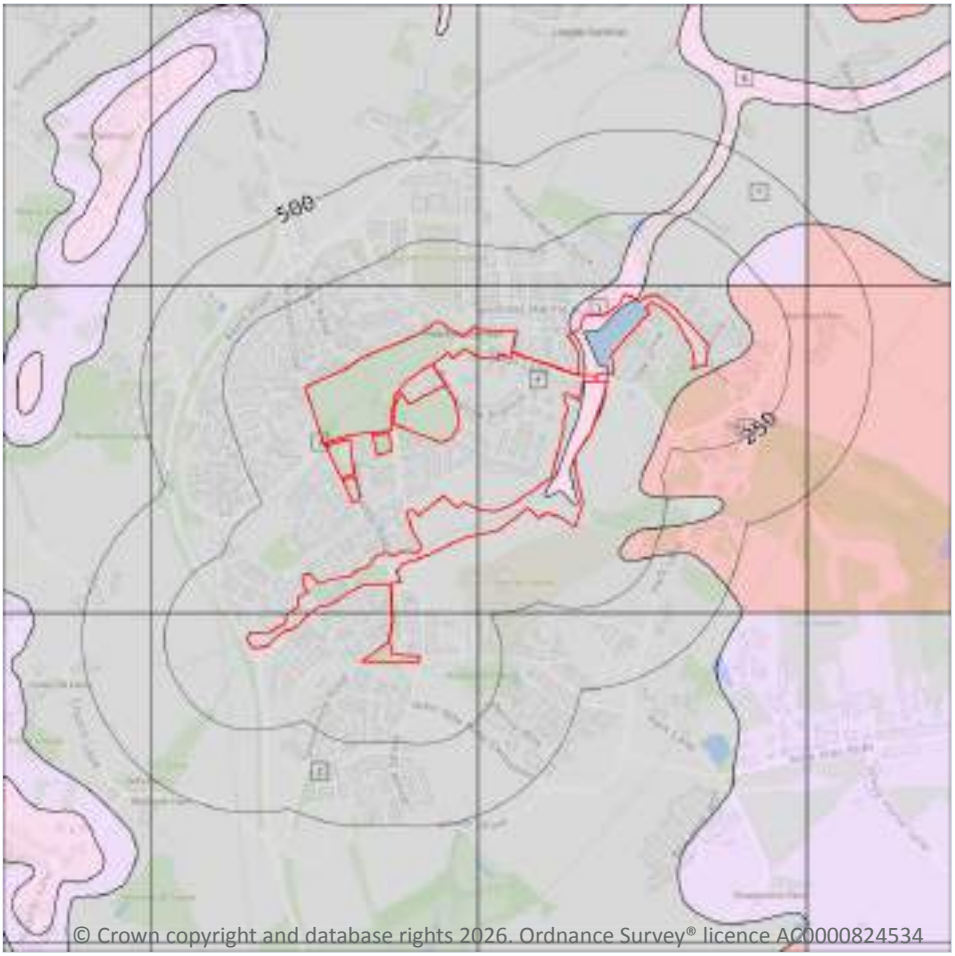
Features are displayed on the Bedrock aquifer map on **page 47 >**

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	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
3	23m 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

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	7

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 49 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Low Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed**
2	**On site**	**Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed**
3	**On site**	**Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed**
4	**On site**	**Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Low Infiltration value: >70% Dilution value: <300mm/year**	**Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed**
5	23m SE	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Mixed
6	30m N	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	31m N	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed

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



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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	2

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 52 >**

ID	Location	Details	
-	1312m W	Status: Historical Licence No: 28/39/24/0079 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: FARLEY HALL, FARLEY HILL, BERKS -WELL Data Type: Point Name: THE RT HON VISCOUNT NICHOLAS BEARSTED Easting: 475000 Northing: 164710	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/01/1967 Expiry Date: - Issue No: 101 Version Start Date: 30/09/2002 Version End Date: -
-	1313m W	Status: Historical Licence No: 28/39/24/0079 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT FARLEY HALL, FARLEY HILL, BERKS Data Type: Point Name: SAMUEL Easting: 475000 Northing: 164700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 09/01/1967 Expiry Date: - Issue No: 100 Version Start Date: 09/01/1967 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.

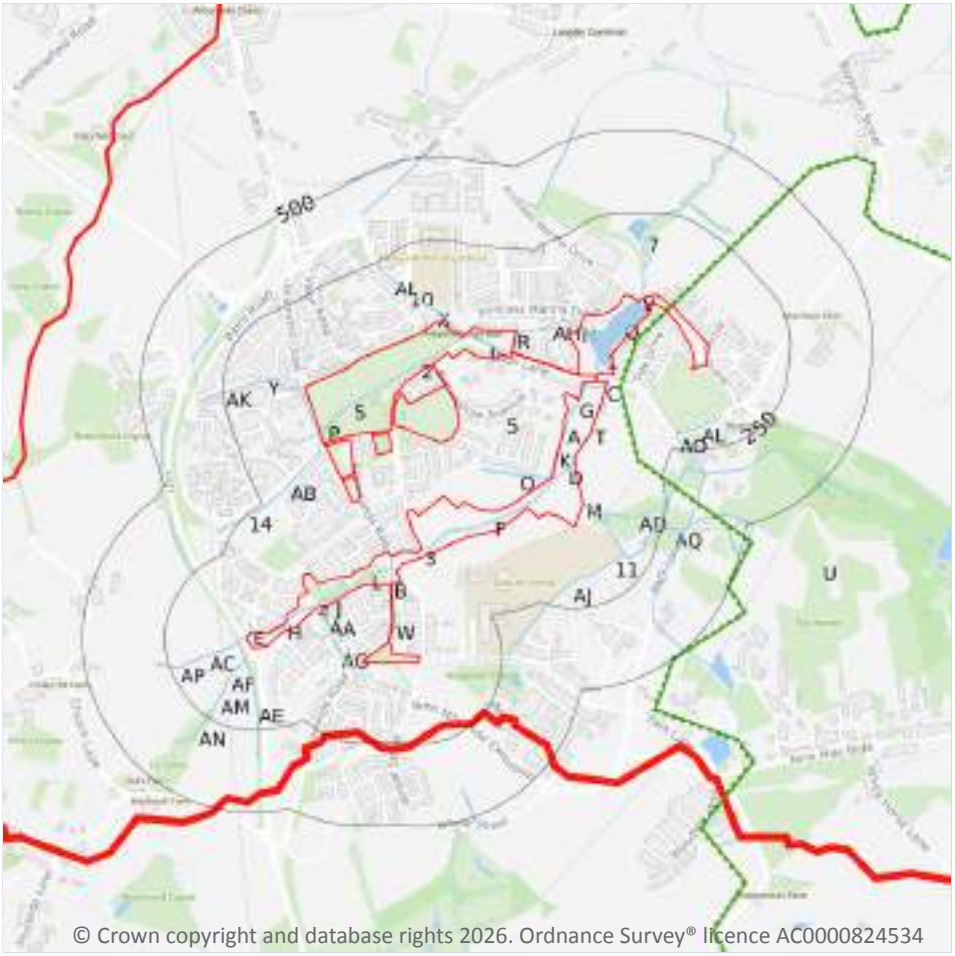
5.10 Source Protection Zones (confined aquifer)

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



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Site Outline

Search buffers in metres (m)

Water Network (OS NGD)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS NGD)

Records within 250m	130

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 55 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
1	**On site**	**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
2	On site	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
4	On site	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	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)	-
A	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	On site	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	On site	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	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)	-
B	On site	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
C	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.	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.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	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.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	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	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	On site	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	On site	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
I	On site	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	On site	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	On site	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
I	On site	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
I	On site	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	On site	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
J	On site	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
K	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	On site	Drain. A manmade watercourse for the removal of excess water from an area.	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)	-
M	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
N	On site	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
N	On site	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	On site	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	On site	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	On site	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	On site	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
Q	On site	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
R	**On site**	**Drain. A manmade watercourse for the removal of excess water from an area.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
S	**On site**	**Drain. A manmade watercourse for the removal of excess water from an area.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
T	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
V	1m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	1m NW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	1m W	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
P	1m W	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
P	1m W	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	2m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	2m E	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	4m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
N	4m NW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	4m E	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
E	5m NW	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
M	6m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	6m E	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
T	11m E	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	12m NE	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	12m NW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	13m W	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
P	13m W	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	13m W	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	13m NE	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
Y	13m W	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	13m W	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
P	13m W	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
P	13m W	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	16m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	16m S	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	17m N	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	18m SW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	29m SW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	29m SW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AC	29m SW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	29m SW	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
M	31m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	31m SW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	34m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	35m N	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
7	36m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	40m SW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	40m SW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AG	44m SW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	46m NW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AH	53m E	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
M	60m E	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	76m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	76m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	78m S	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
P	82m W	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	86m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	91m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AD	94m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	102m NW	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
AI	150m NW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	152m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AJ	152m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AL	160m S	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	170m SE	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AM	185m SW	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
AM	189m SW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AO	204m S	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
AI	205m NW	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
AD	209m E	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	210m NW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AD	219m E	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
AP	223m SW	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
AN	224m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AP	226m SW	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	227m E	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AO	228m S	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AO	231m S	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
AD	239m E	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AQ	239m E	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AO	240m S	Drain. A manmade watercourse for the removal of excess water from an area.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AK	241m W	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-
14	243m NW	Drain. A manmade watercourse for the removal of excess water from an area.	Underground	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey®.

6.2 Surface water features

Records within 250m	36

Covering rivers, streams and lakes (some overlap with OS NGD 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 55 >**

This data is sourced from the Ordnance Survey®.

6.3 WFD Surface water body catchments

Records on site	1

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

Features are displayed on the Hydrology map on **page 55 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
5	**On site**	**River**	**Barkham Brook**	**GB106039017400**	**Loddon**	**Loddon and Trib**

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

6.4 WFD Surface water bodies

Records identified	1

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

Features are displayed on the Hydrology map on **page 55 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	682m N	River	Barkham Brook	GB106039017400 ↗	No longer applicable	Does not require assessment	Moderate	2022

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 55 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
U	**On site**	**Farnborough Bagshot Beds**	**GB40602G601300** ↗	**Good**	**Good**	**Good**	**2019**

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

7 River and coastal flooding



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Site Outline

Search buffers in metres (m)

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 the sea

Records within 50m	6

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

Features are displayed on the River and coastal flooding map on **page 68 >**

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

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

7.2 Historical Flood Events

Records within 250m	**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.

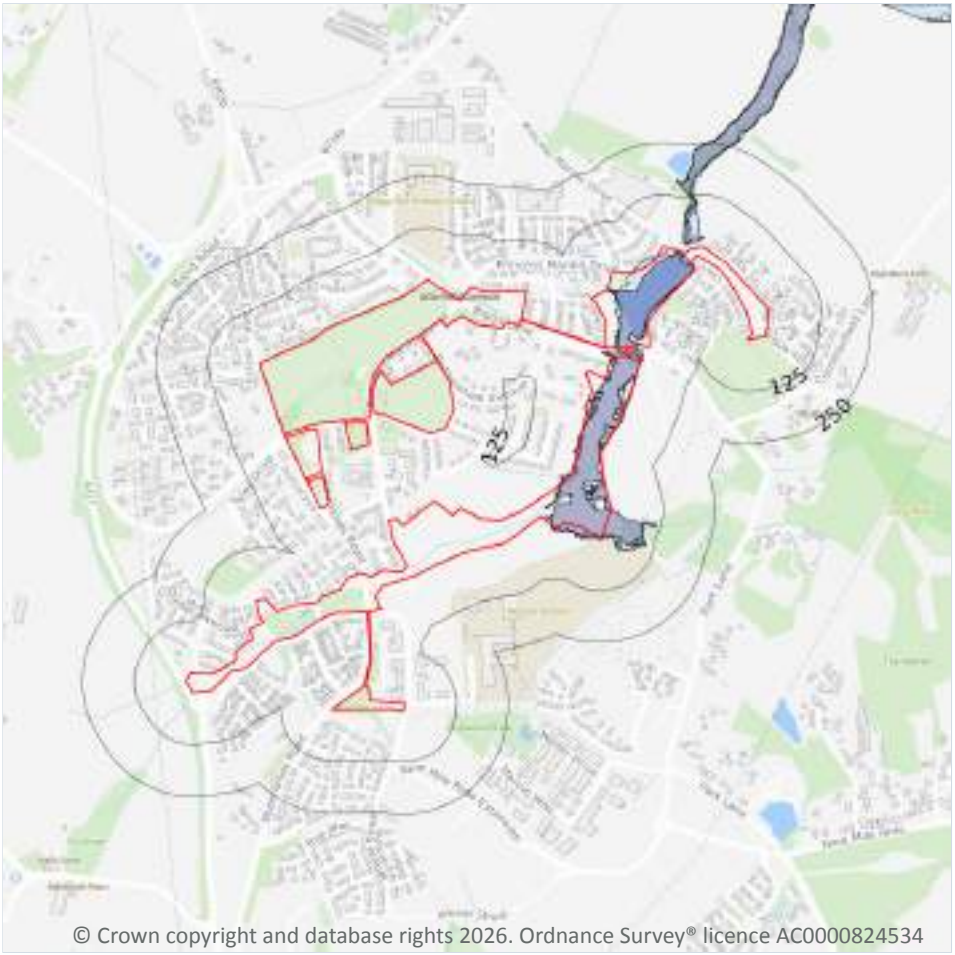
7.5 Flood Storage Areas

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



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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 68 >**

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 68 >**

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

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

8 Surface water flooding



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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 72 >**

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



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Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

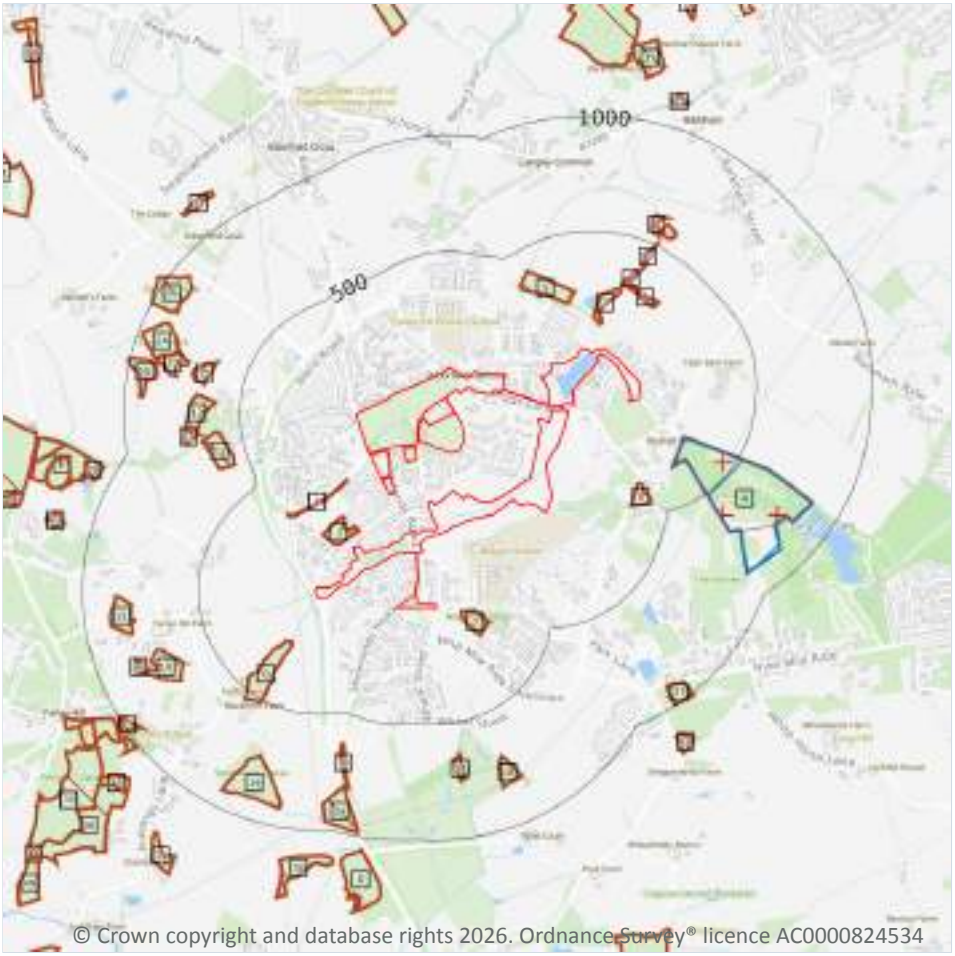
Highest risk on site	**Moderate**
Highest risk within 50m	**Moderate**

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

Features are displayed on the Groundwater flooding map on **page 74 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Special Protection Areas (SPA)

Local Nature Reserves (LNR)

Designated Ancient Woodland

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 75 >**

ID	Location	Name	Data source
A	256m SE	Longmoor Bog SSSI	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 75 >**

ID	Location	Name	Data source
A	258m SE	Longmoor Bog	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	86

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 75 >**

ID	Location	Name	Woodland Type
1	45m NW	Whitehall Copse (Tithe Map: White Hall Coppice)(tithe:white Hall Coppice)	Ancient & Semi-Natural Woodland
2	108m N	Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice)	Ancient & Semi-Natural Woodland
3	110m E	Hogwood Shaw(tithe: Hogwood Shaw)	Ancient & Semi-Natural Woodland
4	137m SW	Whitehall Copse (Tithe Map: White Hall Coppice)(tithe:white Hall Coppice)	Ancient & Semi-Natural Woodland
5	204m N	Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice)	Ancient & Semi-Natural Woodland
6	221m SW	(Epoch2:fir Grove)(tithe: Yew Tree Copse)	Ancient & Semi-Natural Woodland
7	269m NE	Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice)	Ancient & Semi-Natural Woodland
8	285m N	Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice)	Ancient & Semi-Natural Woodland

ID	Location	Name	Woodland Type
9	341m E	(Tithe=411=the Clumps; Osd=long Moor)	Ancient & Semi-Natural Woodland
10	394m NE	Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice)	Ancient & Semi-Natural Woodland
B	540m NE	Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice)	Ancient & Semi-Natural Woodland
B	551m NE	Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice)	Ancient & Semi-Natural Woodland
11	555m W	Robinhood Copse (Tithe Map: Robin Hood's Coppice)(tithe:robin Wood Coppice)	Ancient & Semi-Natural Woodland
12	605m W	(Tithe Map: Hurdle Coppice)(tithe:long Coppice Hurdle Coppice)	Ancient & Semi-Natural Woodland
13	629m S	Unknown	Ancient & Semi-Natural Woodland
14	635m S	(Tithe: Redgates Shaw)	Ancient & Semi-Natural Woodland
15	636m W	Long Copse (Tithe Map: The Long Coppice)(tithe:long Coppice Hurdle Coppice)	Ancient & Semi-Natural Woodland
16	640m SW	Pink's Copse(tithe:pinks Coppice)	Ancient & Semi-Natural Woodland
17	694m W	Unknown	Ancient & Semi-Natural Woodland
18	695m SE	(Tithe: Garden Shaw)	Ancient & Semi-Natural Woodland
19	721m S	Westwood Copse(tithe: Westwood Copse)	Ancient & Semi-Natural Woodland
20	751m W	Long Copse (Tithe Map: The Long Coppice)(tithe:long Coppice Hurdle Coppice)	Ancient & Semi-Natural Woodland
21	786m W	Churchland Copse(tithe:burchetts Coppice)	Ancient & Semi-Natural Woodland
22	802m S	Claypits(tithe: Clay Pit)	Ancient & Semi-Natural Woodland
23	807m W	Pink's Copse(tithe:pinks Coppice)	Ancient & Semi-Natural Woodland
24	813m W	Long Copse (Tithe Map: The Long Coppice)(tithe:long Coppice Hurdle Coppice)	Ancient & Semi-Natural Woodland

ID	Location	Name	Woodland Type
25	873m W	(Tithe Map: Coppice)	Ancient & Semi-Natural Woodland
26	883m NW	(Epo2:spring Copse. Tithe Map: Spring Coppice)(tithe:spring Coppice)	Ancient & Semi-Natural Woodland
27	911m SE	Unknown	Ancient & Semi-Natural Woodland
C	944m SW	(Tithe Map: Farley Hill Common)	Ancient & Semi-Natural Woodland
C	1015m SW	Unknown	Ancient & Semi-Natural Woodland
C	1027m SW	(Tithe Map: Farley Hill Common)	Ancient Replanted Woodland
28	1055m NW	Castle Copse (Tithe Map: Castle Coppice)	Ancient & Semi-Natural Woodland
D	1056m S	Lea Copse(tithe: Lea Copse)	Ancient & Semi-Natural Woodland
29	1094m N	(Tithe:little Coppice)	Ancient & Semi-Natural Woodland
C	1105m SW	(Tithe Map: Farley Hill Common)	Ancient & Semi-Natural Woodland
30	1107m S	Lea Copse(tithe: Lea Copse)	Ancient & Semi-Natural Woodland
E	1107m NW	Castle Copse (Tithe Map: Castle Coppice)	Ancient & Semi-Natural Woodland
C	1108m SW	(Tithe Map: Farley Hill Common)	Ancient & Semi-Natural Woodland
31	1115m NW	Unknown	Ancient & Semi-Natural Woodland
32	1118m SE	(Tithe: Sandpit Copse)	Ancient & Semi-Natural Woodland
33	1120m W	(Tithe Map: Castle Coppice)	Ancient & Semi-Natural Woodland
34	1126m SW	(Tithe:little Coppice Late Hornes)	Ancient & Semi-Natural Woodland
35	1147m SW	Wyvols Copse (Tithe Map: Wyfold Coppice)(tithe:wyfold Copse)	Ancient Replanted Woodland
E	1148m NW	Castle Copse (Tithe Map: Castle Coppice)	Ancient & Semi-Natural Woodland

ID	Location	Name	Woodland Type
E	1166m NW	Castle Copse (Tithe Map: Castle Coppice)	Ancient & Semi-Natural Woodland
36	1168m SW	Pickets Copse (Tithe Map: Piggots Coppice)(tithe:piggots Or Picketts Coppice)	Ancient Replanted Woodland
37	1183m N	Bignell's Copse(tithe:bignolds Coppice)	Ancient & Semi-Natural Woodland
38	1222m N	The Coombes	Ancient & Semi-Natural Woodland
39	1228m SW	Hornes Copse	Ancient & Semi-Natural Woodland
E	1246m NW	Castle Copse (Tithe Map: Castle Coppice)	Ancient & Semi-Natural Woodland
D	1249m S	Lea Copse(tithe: Lea Copse)	Ancient & Semi-Natural Woodland
D	1323m S	Lea Copse(tithe: Lea Copse)	Ancient & Semi-Natural Woodland
40	1324m W	Great Copse (Tithe Map: Horns Coppice)(tithe:horns Coppice)	Ancient & Semi-Natural Woodland
41	1328m W	Great Copse (Tithe Map: Horns Coppice)(tithe:horns Coppice)	Ancient & Semi-Natural Woodland
42	1454m N	(Epo2: Hazeltons Copse; Tithe:hazletons Copse)	Ancient & Semi-Natural Woodland
43	1471m N	The Coombes	Ancient & Semi-Natural Woodland
-	1552m W	Unknown	Ancient & Semi-Natural Woodland
45	1563m NE	Bears Copse(tithe:bears Coppice)	Ancient & Semi-Natural Woodland
46	1612m SE	Banisters Copse(tithe: Banisters Copse)	Ancient & Semi-Natural Woodland
-	1619m W	Great Copse	Ancient & Semi-Natural Woodland
48	1627m SW	Pickets Copse (Tithe Map: Piggots Coppice)(tithe:piggots Or Picketts Coppice)	Ancient Replanted Woodland
49	1645m SW	King's Copse (Tithe Map: Kings Coppice)(tithe:kings Coppice)	Ancient Replanted Woodland
-	1648m W	Great Copse(tithe:mag Green Coppice)	Ancient & Semi-Natural Woodland
51	1653m NW	Bottom Copse (Tithe Map: Bottoms Coppice)(tithe:bottom Coppice)	Ancient Replanted Woodland

ID	Location	Name	Woodland Type
-	1670m S	Poors Copse(tithe: Poors Copse)	Ancient & Semi-Natural Woodland
-	1675m SW	Featherlands Copse(tithe:featherlands Coppice)	Ancient & Semi-Natural Woodland
-	1697m W	Kiln Copse(tithe:lower Moss Coppice)	Ancient & Semi-Natural Woodland
-	1744m W	New Plantation(tithe:rapleys Shaw)	Ancient & Semi-Natural Woodland
-	1802m W	New Plantation(tithe:rapleys Shaw)	Ancient & Semi-Natural Woodland
-	1809m W	New Plantation(tithe:rapleys Shaw)	Ancient Replanted Woodland
-	1815m SW	Wheeler's Copse(tithe:holloways Coppice)	Ancient & Semi-Natural Woodland
-	1816m W	Emms Copse(tithe:emms Coppice)	Ancient & Semi-Natural Woodland
-	1822m W	New Plantation(tithe:rapleys Shaw)	Ancient & Semi-Natural Woodland
-	1824m W	New Plantation(tithe:rapleys Shaw)	Ancient & Semi-Natural Woodland
-	1827m W	Emms Copse(tithe:emms Coppice)	Ancient & Semi-Natural Woodland
-	1837m W	New Plantation(tithe:rapleys Shaw)	Ancient Replanted Woodland
-	1856m W	New Plantation(tithe:rapleys Shaw)	Ancient Replanted Woodland
56	1880m SW	Unknown	Ancient & Semi-Natural Woodland
-	1882m W	New Plantation(tithe:rapleys Shaw)	Ancient Replanted Woodland
-	1883m W	Emms Copse(tithe:emms Coppice)	Ancient & Semi-Natural Woodland
-	1909m SW	Unknown	Ancient & Semi-Natural Woodland
-	1921m W	New Plantation(tithe:first Dunnings Hole)	Ancient & Semi-Natural Woodland
58	1933m NW	Pound Copse (Tithe Map: Pound Coppice Wellan's Coppice)(tithe:pond Or Willans Coppice)	Ancient & Semi-Natural Woodland
-	1935m W	New Plantation(tithe:rapleys Shaw)	Ancient & Semi-Natural Woodland

ID	Location	Name	Woodland Type
-	1971m W	New Plantation(tithe:first Dunnings Hole)	Ancient Replanted Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	0

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

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

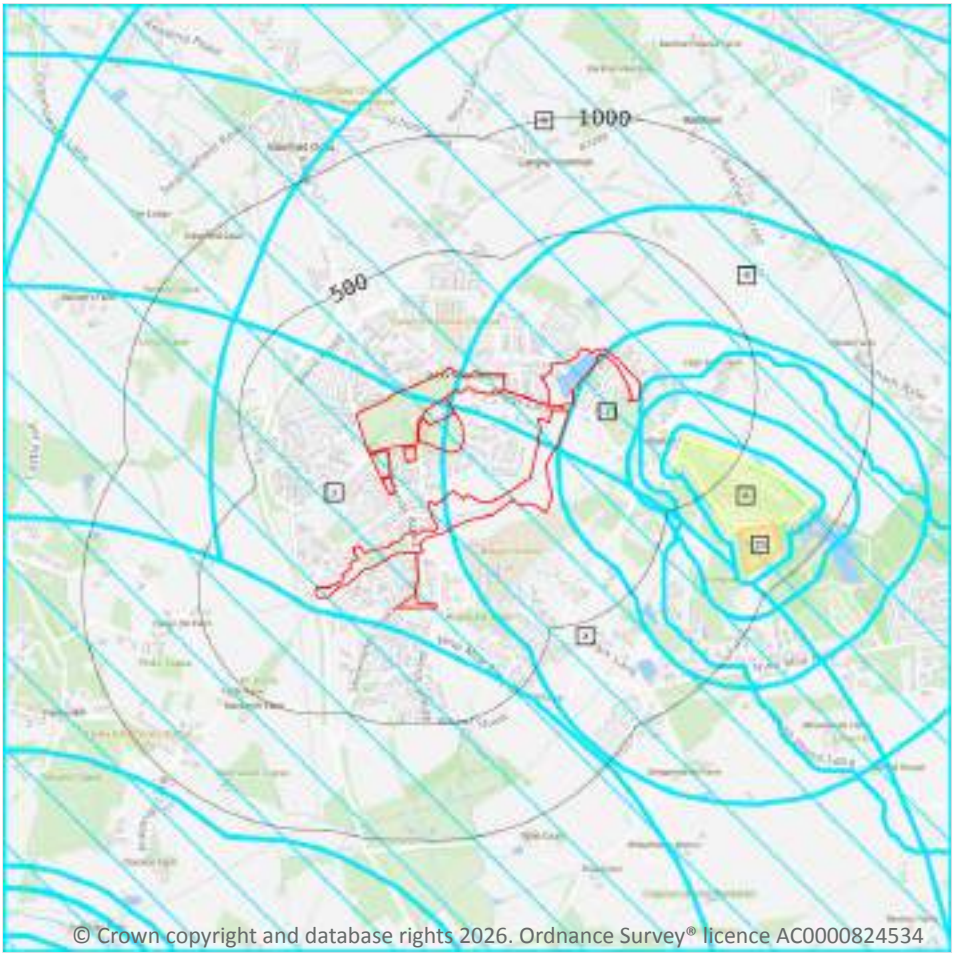
Records within 2000m	2

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

Location	Name	Type	NVZ ID	Status
On site	**Barkham Brook NVZ**	**Surface Water**	**449**	**Existing**
12m N	Barkham Brook NVZ	Surface Water	449	Existing

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

Not recorded

Favourable

Unfavourable - Recovering

Unfavourable - No change

Unfavourable - Declining

Partially destroyed

Destroyed

10.17 SSSI Impact Risk Zones

Records on site	5

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 85 >**

ID	Location	Type of developments requiring consultation
1	On site	https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0101054211101&notes=11401&location=477548,165685%20(IRZ%20polygon%20centre)
2	On site	https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0121054322201&notes=11401&location=477362,164865%20(IRZ%20polygon%20centre)

ID	Location	Type of developments requiring consultation
3	**On site**	**https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0121000322302&notes=11401&location=477179,164550%20(IRZ%20polygon%20centre)**
4	**On site**	**https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0101054322201&notes=11401&location=478988,165771%20(IRZ%20polygon%20centre)**
5	**On site**	**https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0101000322302&notes=11401&location=479935,165401%20(IRZ%20polygon%20centre)**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	**2**

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 85 >**

ID: A
Location: 256m SE
SSSI name: Longmoor Bog
Unit name: Wdc
Broad habitat: Fen, Marsh And Swamp - Lowland
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland fens, including basin, flood-plain, open water transition and valley fens	Unfavourable - Recovering	22/07/2013
Lowland wet heath	Unfavourable - Recovering	22/07/2013
Wet woodland	Favourable	22/07/2013

ID: 15
Location: 716m SE
SSSI name: Longmoor Bog
Unit name: California
Broad habitat: Fen, Marsh And Swamp - Lowland
Condition: Unfavourable - No change
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland wet heath	Unfavourable - No change	22/07/2013

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

11 Visual and cultural designations



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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	1

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 88 >**

ID	Location	Name	Grade	Reference Number	Listed date
4	54m NE	Moat House	II	1419613	28/07/2014

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

11.5 Conservation Areas

Records within 250m	0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m	3

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.

Features are displayed on the Visual and cultural designations map on **page 88 >**

ID	Location	Ancient monument name	Reference number
1	4m SE	Moated site north of the Moat House	1009886
2	6m NW	Infirmary Stables, Arborfield	1006949
3	9m NW	Infirmary Stables, Arborfield	1006949

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

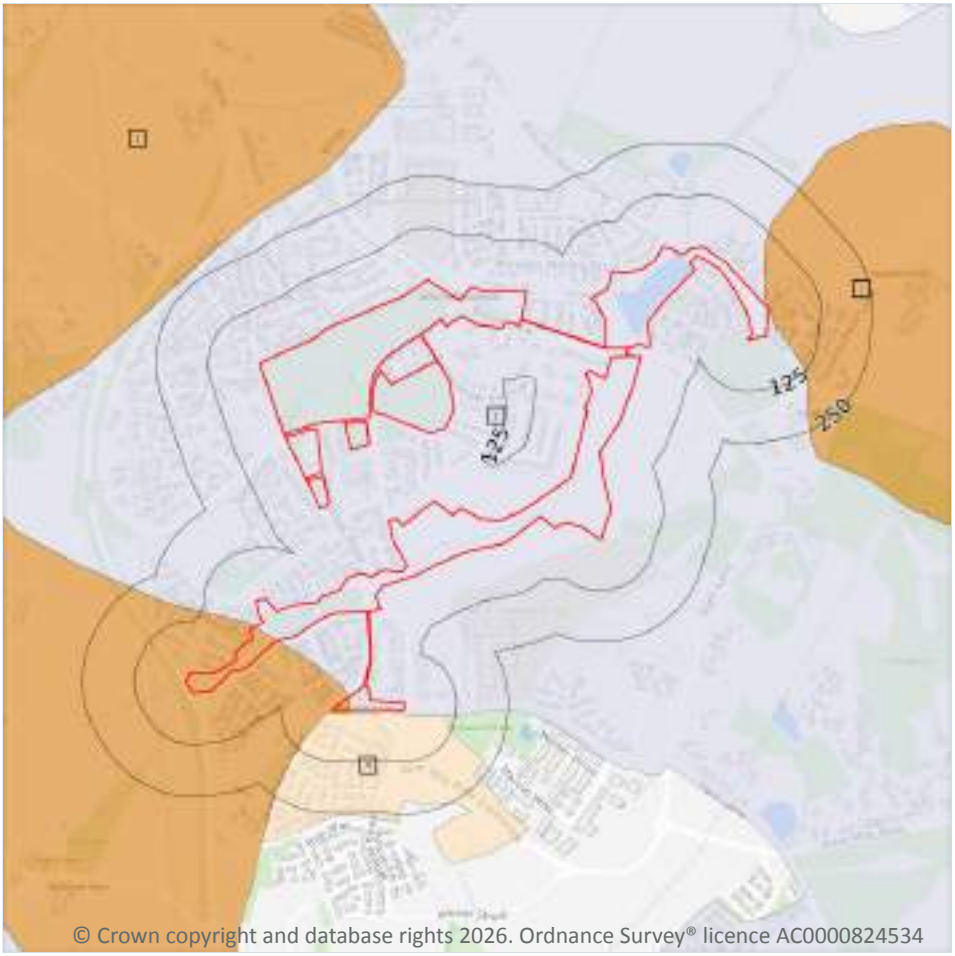
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



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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	4

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 91 >**

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

ID	Location	Classification	Description
2	**On site**	**Grade 4**	**Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.**
3	1m E	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.
4	6m S	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0

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

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

12.3 Tree Felling Licences

Records within 250m	0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	1

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

Location	Reference	Scheme	Start Date	End date
148m N	AG00514111	Organic Entry Level Stewardship	01/10/2013	30/09/2018

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	**3**

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
31m SW	1228527	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026
43m SW	1228527	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026
59m NW	1228527	Countryside Stewardship (Middle Tier)	01/01/2022	31/12/2026

This data is sourced from Natural England.

13 Habitat designations



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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	31

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 94 >**

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**	**No main habitat but additional habitats present**	**Main habitat: DWOOD (INV > 50%)**
A	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
6	2m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	16m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	17m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	45m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	51m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	53m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	78m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	110m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
14	110m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
15	110m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	113m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	123m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	128m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
16	153m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
17	155m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
18	168m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
19	180m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
20	186m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
21	209m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
22	221m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
23	228m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
24	233m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
25	240m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
26	248m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
27	250m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	1

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 94 >**

ID	Location	Type	Habitat
12	97m SE	Network Enhancement Zone 1	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.

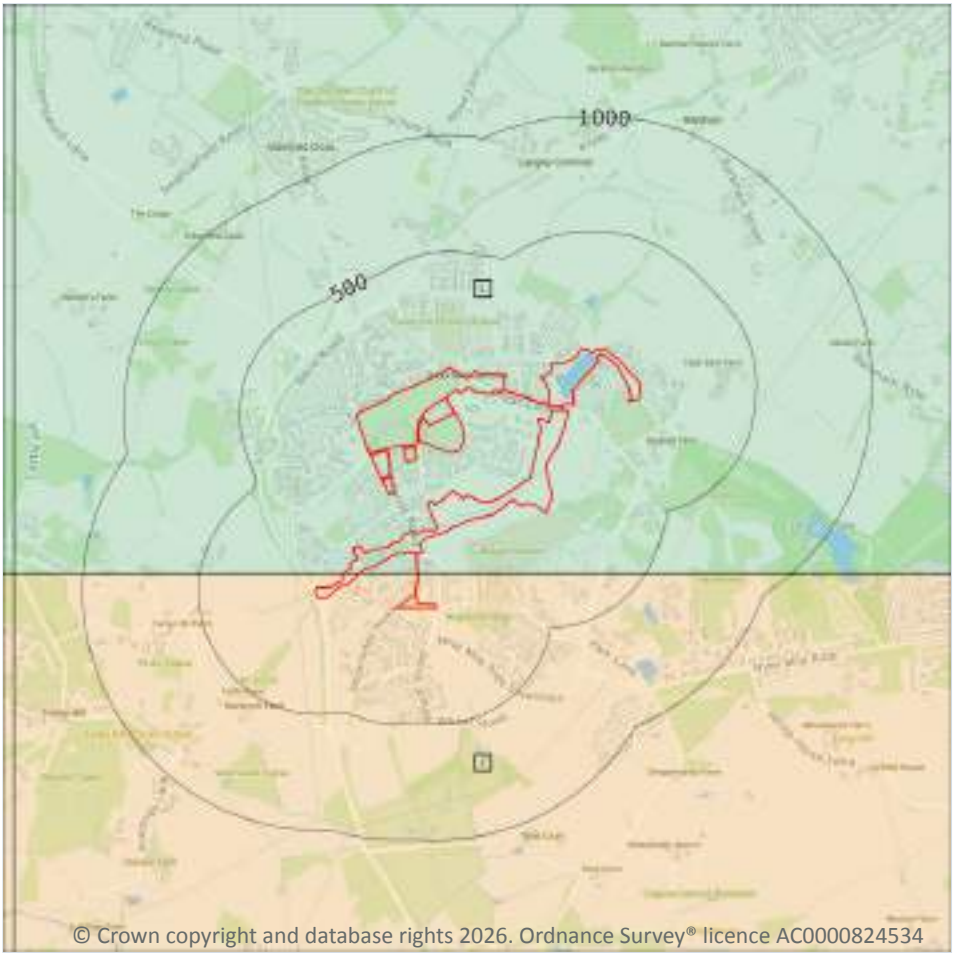
13.4 Limestone Pavement Orders

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	2

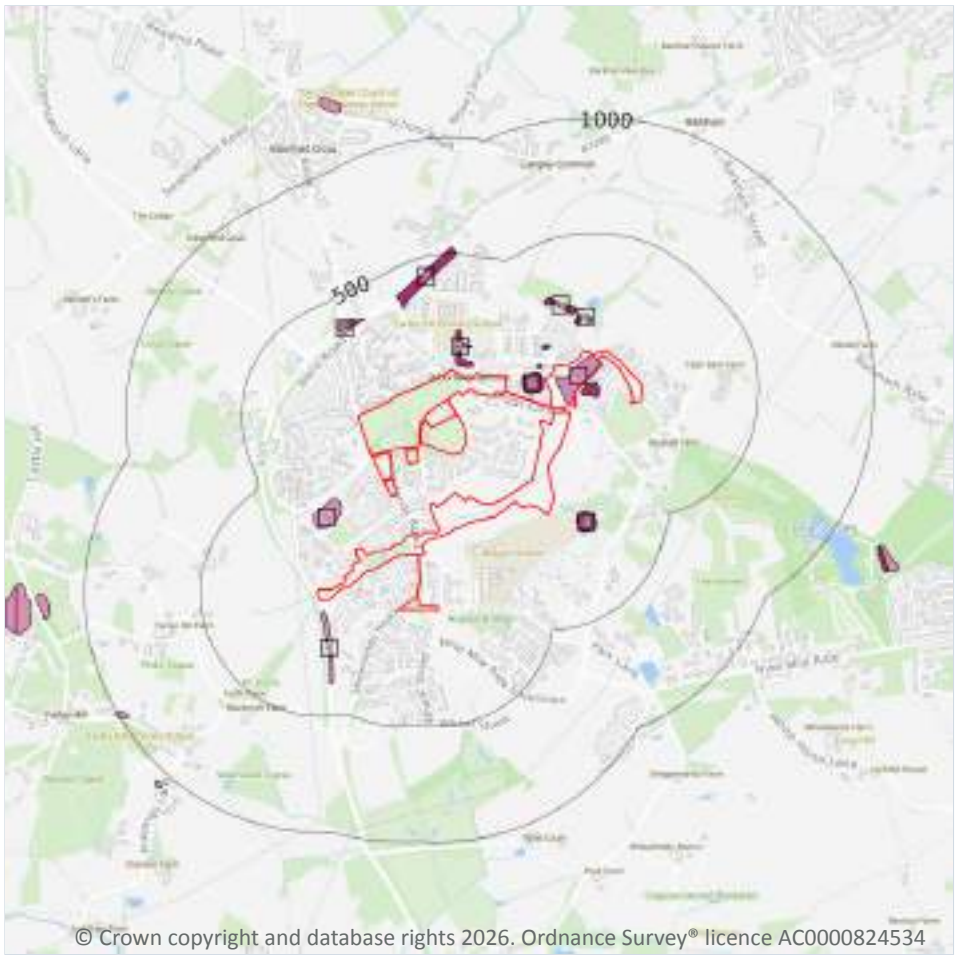
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 97 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**SU76NE**
2	**On site**	**Full**	**Partial**	**Partial**	**No coverage**	**SU76SE**

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

14.2 Artificial and made ground (10k)

Records within 500m **14**

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.

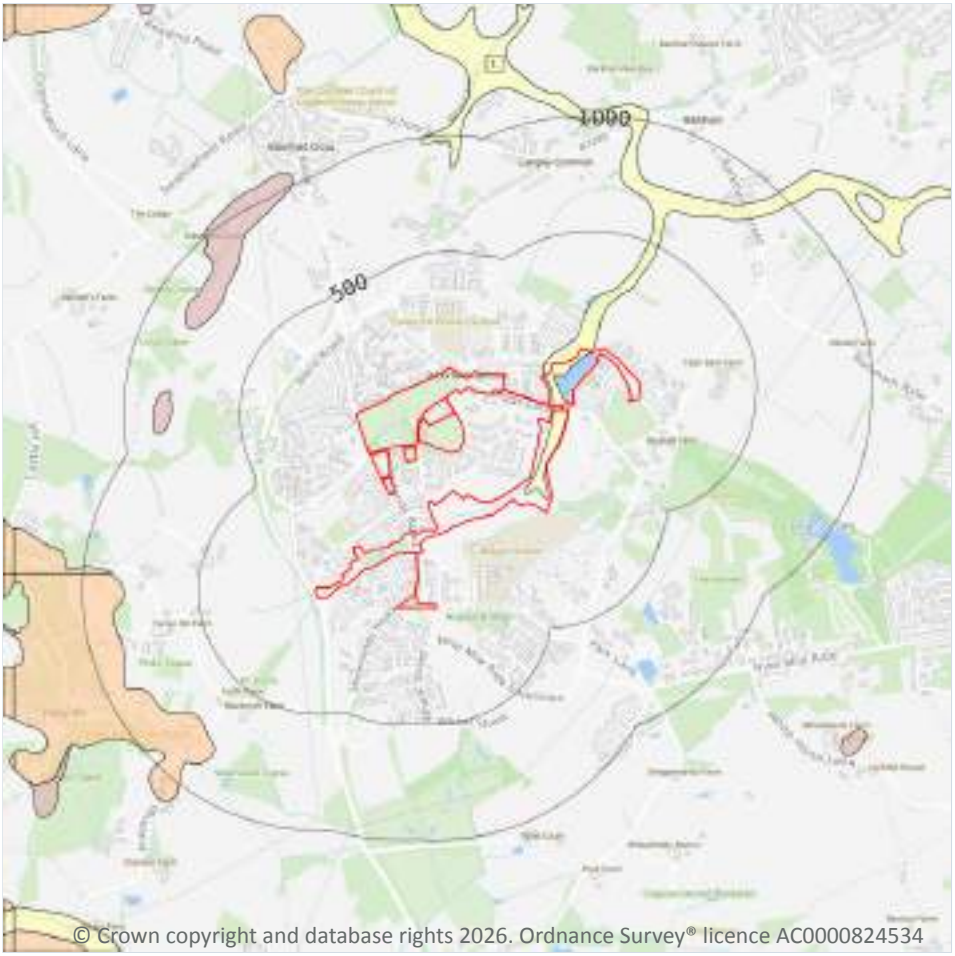
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 98 >**

ID	Location	LEX Code	Description	Rock description
A	**On site**	**WGR-VOID**	**Worked Ground (Undivided)**	**Void**
B	2m W	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
A	17m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
1	29m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit

ID	Location	LEX Code	Description	Rock description
2	47m S	WGR-VOID	Worked Ground (Undivided)	Void
B	47m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
B	78m N	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
3	116m N	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
4	117m E	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
5	143m NW	WGR-VOID	Worked Ground (Undivided)	Void
6	163m N	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
7	334m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
C	346m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
C	347m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



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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	1

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 100 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**ALV-Z**	**Alluvium-Silt**	**Silt**

This data is sourced from the British Geological Survey.

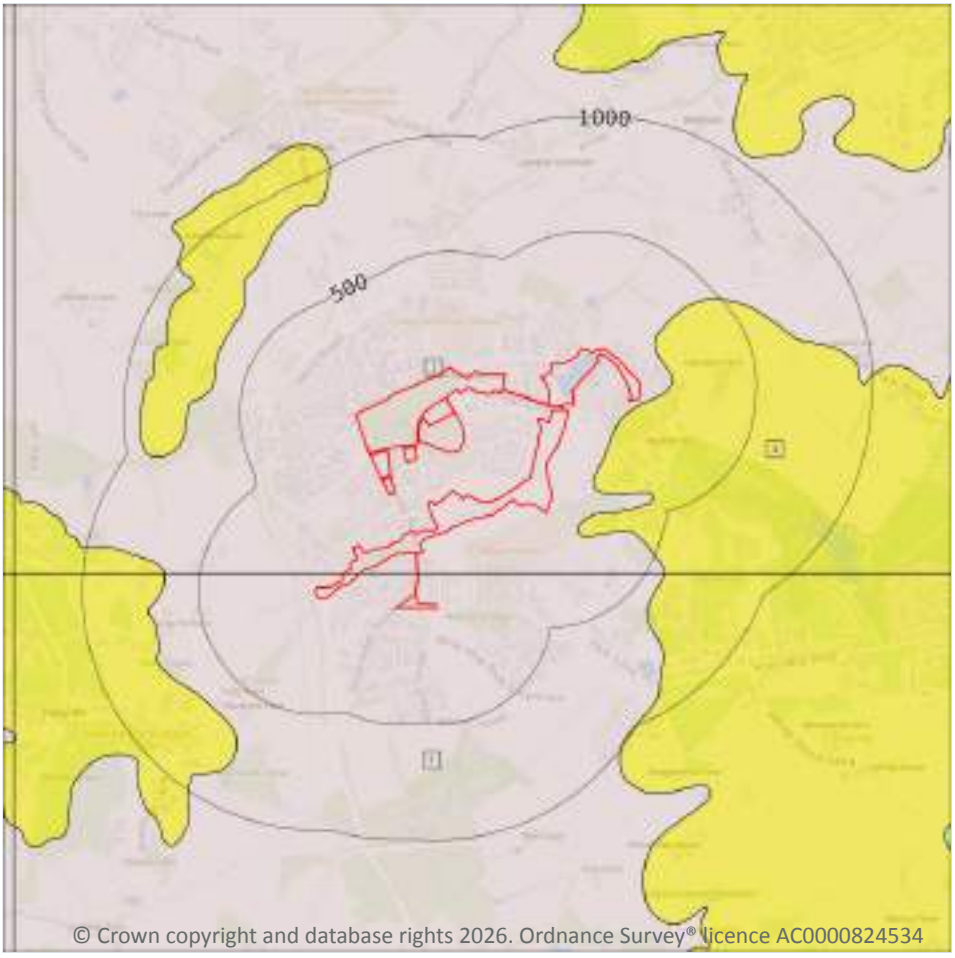
14.4 Landslip (10k)

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



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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 **3**

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 102 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**LC-XCZS**	**London Clay Formation-Clay, Silt And Sand**	**Ypresian**
2	**On site**	**LC-XCZS**	**London Clay Formation-Clay, Silt And Sand**	**Ypresian**
3	25m SE	BGS-S	Bagshot Formation-Sand	Ypresian

This data is sourced from the British Geological Survey.

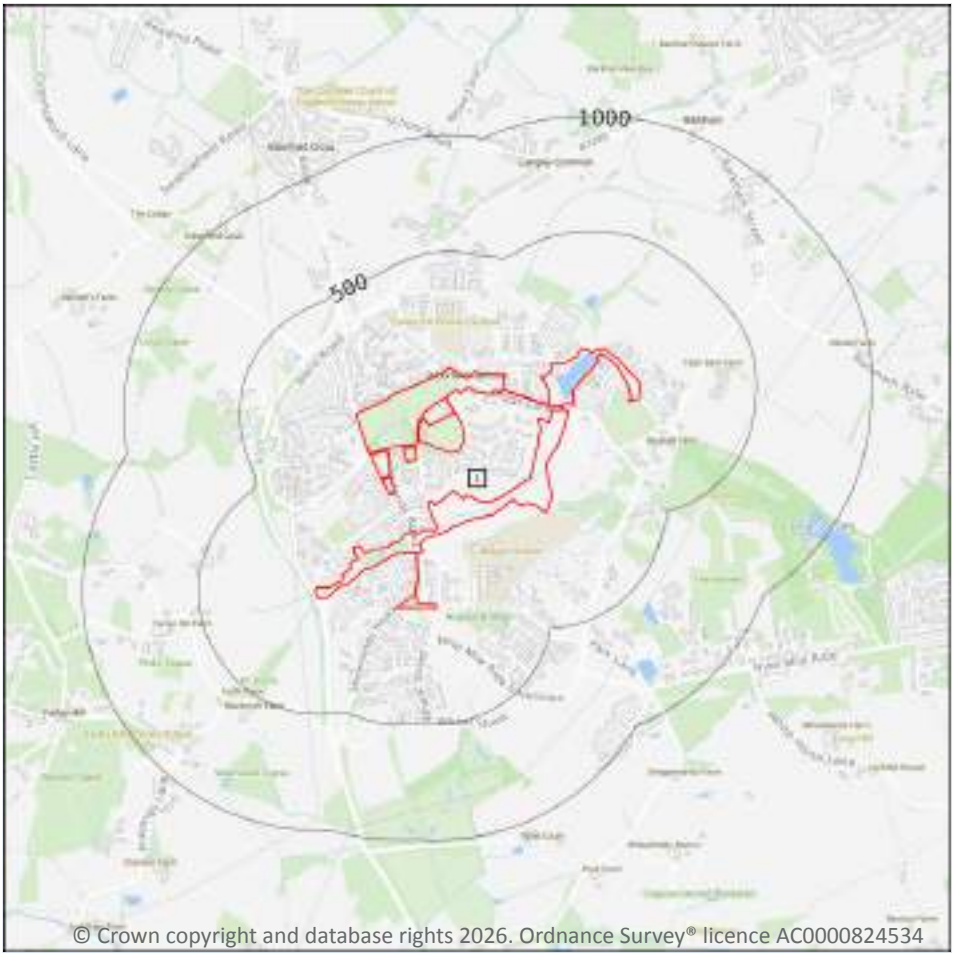
14.6 Bedrock faults and other linear features (10k)

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

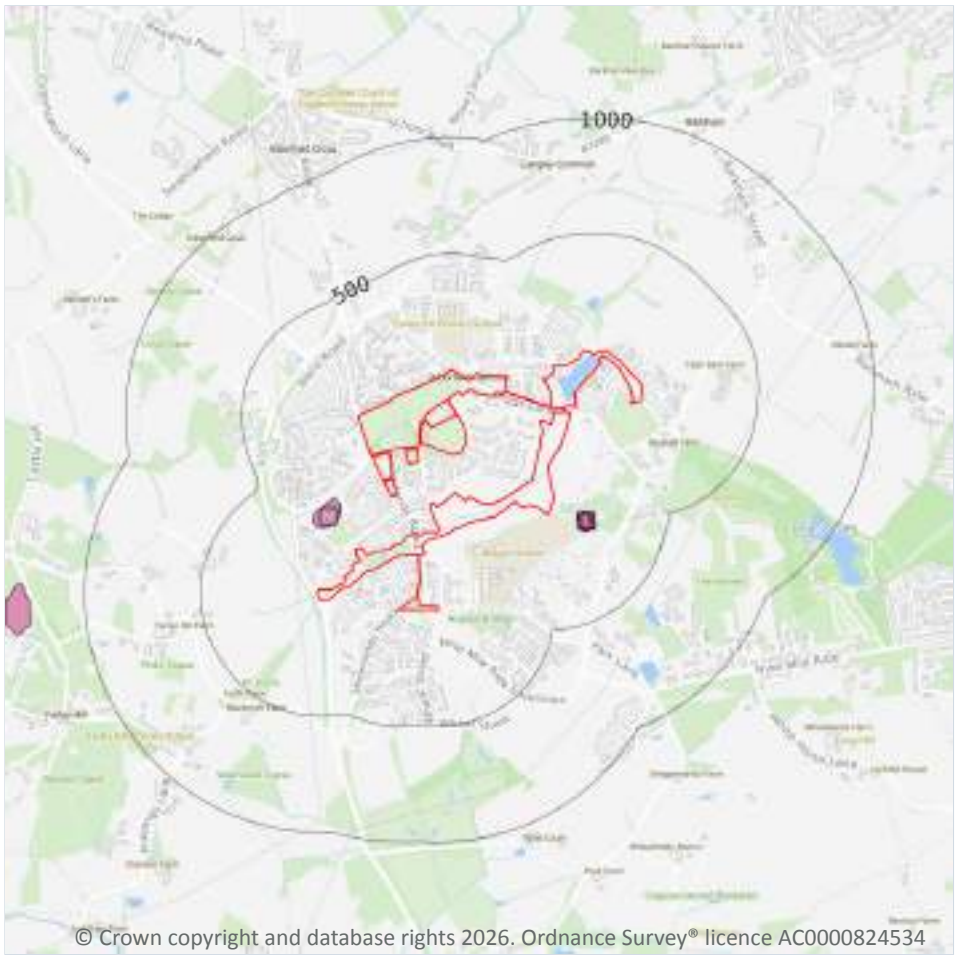
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 104 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**EW268_reading_v4**

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

15.2 Artificial and made ground (50k)

Records within 500m	2

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 105 >**

ID	Location	LEX Code	Description	Rock description
1	117m E	MGR-ARTDP	Made Ground	Artificial deposit
2	143m NW	WGR-VOID	Worked Ground	Void

This data is sourced from the British Geological Survey.

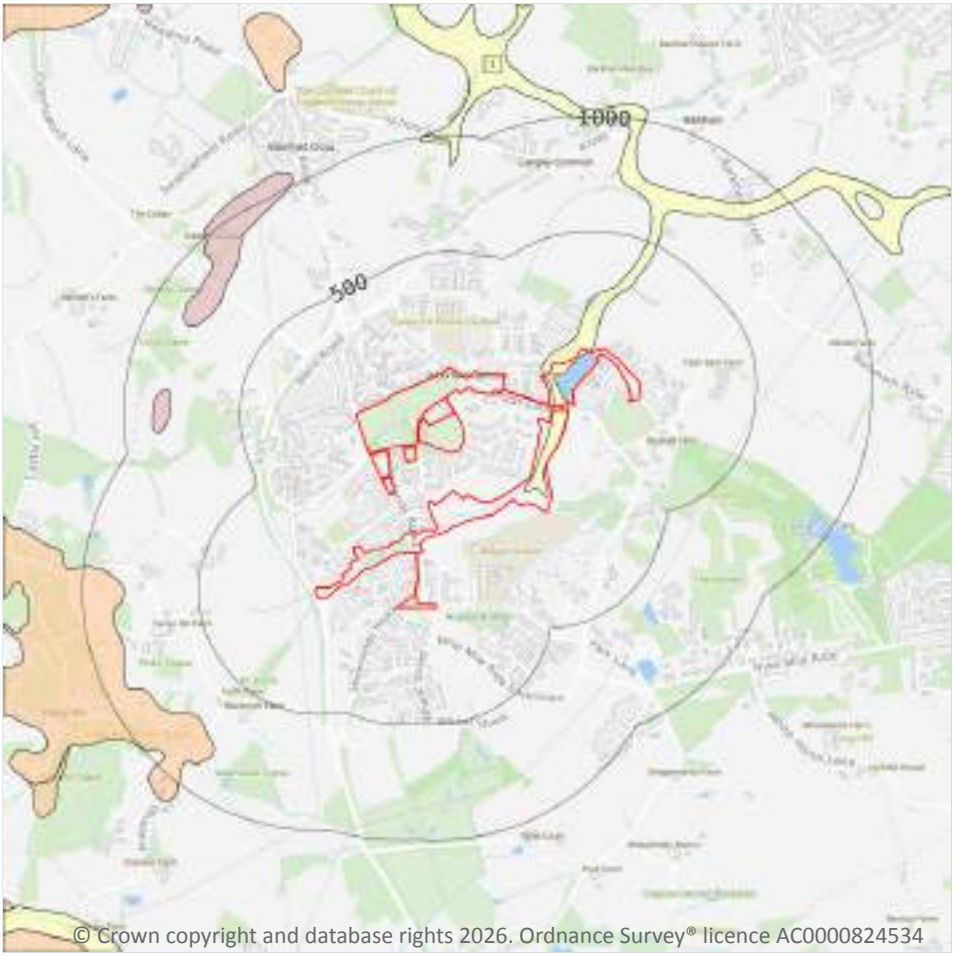
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



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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	1

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 107 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**ALV-XCZSV**	**Alluvium**	**Clay, silt, sand and gravel**

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	1

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

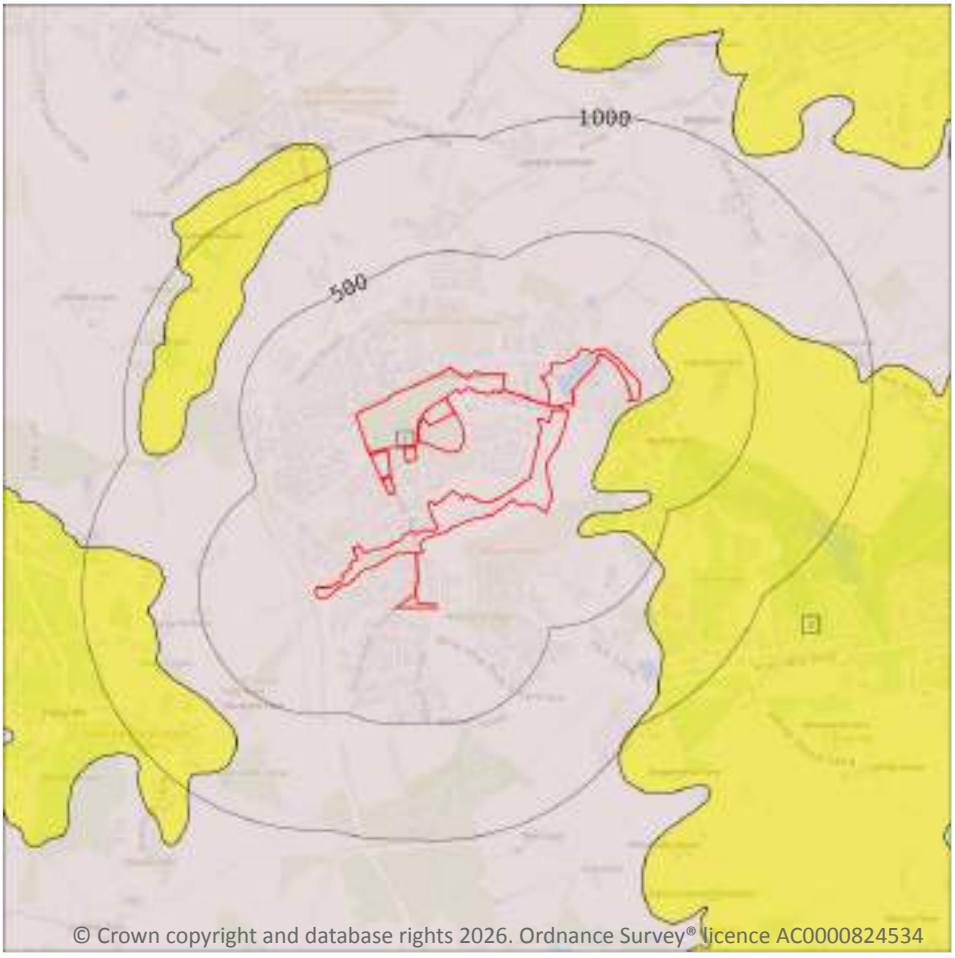
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



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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	2

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 109 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**LC-XCZS**	**London Clay Formation-Clay, silt and sand**	**Ypresian**
2	23m SE	BGS-S	Bagshot Formation-Sand	Ypresian

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**Moderate**	**Very Low**
23m SE	Intergranular	High	High

This data is sourced from the British Geological Survey.

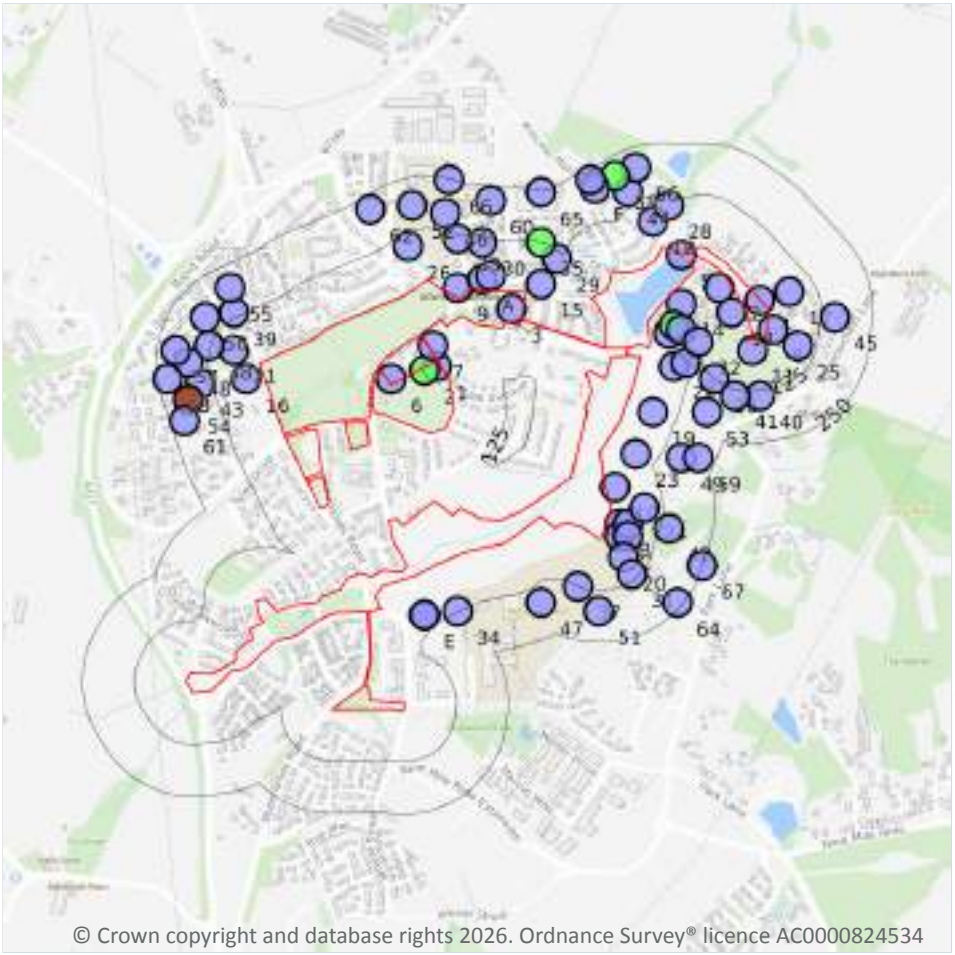
15.10 Bedrock faults and other linear features (50k)

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



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16.1 BGS Boreholes

Records within 250m	89

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 111 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	476900 165680	ARBORFIELD GARRISON 42	10.0	N	427030 ↗
2	On site	476870 165670	ARBORFIELD GARRISON 43	15.0	N	427031 ↗
3	On site	477080 165820	ARBORFIELD GARRISON 72	3.0	N	427060 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	**On site**	**477680 165840**	**ARBORFIELD GARRISON 76**	**3.0**	**N**	**427064** ↗
5	1m NW	477490 165950	ARBORFIELD GARRISON 70	3.0	N	427058 ↗
6	8m NE	476790 165650	ARBORFIELD GARRISON 44	10.0	N	427032 ↗
7	9m NE	476890 165730	ARBORFIELD GARRISON 41	10.0	N	427029 ↗
8	15m E	477710 165770	ARBORFIELD GARRISON 78	3.0	N	427066 ↗
9	22m NE	476950 165870	ARBORFIELD GARRISON 71	3.0	N	427059 ↗
10	23m E	477330 165390	ARBORFIELD GARRISON 90	3.0	N	427078 ↗
A	26m NE	477010 165890	ARBORFIELD GARRISON 39	10.0	N	427027 ↗
11	27m S	477660 165720	ARBORFIELD GARRISON 80	3.0	N	427068 ↗
12	29m SW	477580 165870	ARBORFIELD GARRISON 74	3.0	N	427062 ↗
B	31m E	477340 165300	ARBORFIELD GARRISON 50	10.0	N	427038 ↗
13	33m SW	477610 165810	ARBORFIELD GARRISON 75	3.0	N	427063 ↗
14	36m SE	477490 165830	ARBORFIELD GARRISON 73	3.0	N	427061 ↗
A	38m N	477030 165900	ARBORFIELD GARRISON 68	3.0	N	427056 ↗
15	39m NE	477150 165880	ARBORFIELD GARRISON 40	6.0	N	427028 ↗
C	41m E	477340 165270	ARBORFIELD GARRISON 52	6.0	N	427040 ↗
16	43m W	476440 165650	POPERINGHE BARRACKS ARBORFIELD TP 19	2.4	N	13469730 ↗
D	49m E	477460 165760	ARBORFIELD GARRISON 45	10.0	N	427033 ↗
B	49m E	477360 165300	ARBORFIELD GARRISON 51	6.0	N	427039 ↗
D	54m SE	477470 165780	ARBORFIELD GARRISON 46	20.0	N	427034 ↗
C	60m E	477360 165270	ARBORFIELD GARRISON 53	6.0	N	427041 ↗
17	65m NE	477750 165860	ARBORFIELD GARRISON 77	3.0	N	427065 ↗
18	65m N	477420 166030	ARBORFIELD GARRISON 65	3.0	N	427053 ↗
19	66m E	477420 165570	ARBORFIELD GARRISON 84	3.0	N	427072 ↗
20	69m SE	477350 165220	ARBORFIELD GARRISON 94	3.0	N	427081 ↗
21	70m NW	476410 165720	POPERINGHE BARRACKS ARBORFIELD TP 20	2.3	N	13469731 ↗
22	75m SE	477470 165680	ARBORFIELD GARRISON 104	3.0	N	427091 ↗

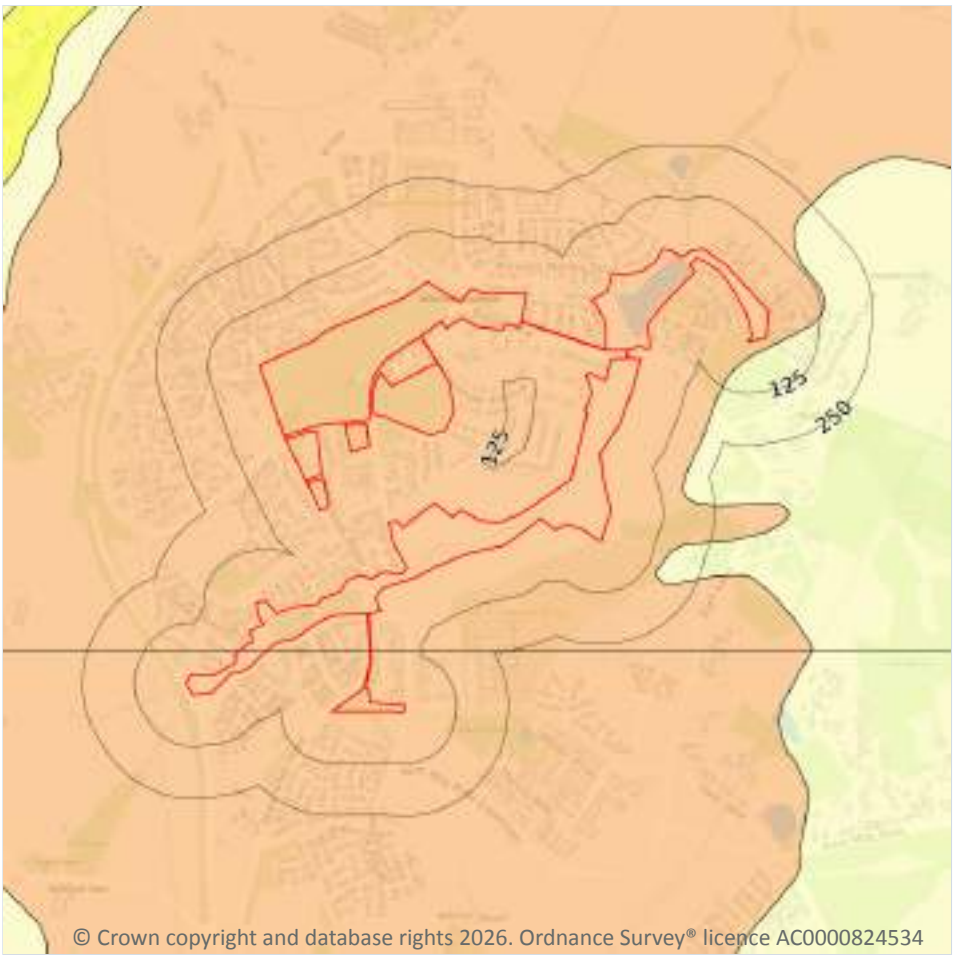
ID	Location	Grid reference	Name	Length	Confidential	Web link
23	75m SE	477380 165470	ARBORFIELD GARRISON 87	3.0	N	427075 ↗
D	76m SE	477490 165770	ARBORFIELD GARRISON 47	10.0	N	427035 ↗
24	80m E	477400 165340	ARBORFIELD GARRISON 91	3.0	N	427079 ↗
25	80m E	477770 165730	ARBORFIELD GARRISON 81	3.0	N	427069 ↗
26	93m NW	476830 165970	ARBORFIELD GARRISON 67	3.0	N	427055 ↗
27	96m SE	477500 165690	ARBORFIELD GARRISON 49	10.0	N	427037 ↗
E	98m S	476870 165080	ARBORFIELD GARRISON TP 1	3.1	N	426983 ↗
E	98m S	476870 165080	ARBORFIELD GARRISON TP 2	3.5	N	426984 ↗
E	98m S	476870 165080	ARBORFIELD GARRISON TP 3	-	Y	N/A
E	98m S	476870 165080	ARBORFIELD GARRISON TP 4	3.6	N	426986 ↗
E	98m S	476870 165080	ARBORFIELD GARRISON TP 5	3.4	N	426987 ↗
E	98m S	476870 165080	ARBORFIELD GARRISON TP 6	3.6	N	426988 ↗
E	98m S	476870 165080	ARBORFIELD GARRISON TP 7	3.3	N	426989 ↗
E	98m S	476870 165080	ARBORFIELD GARRISON TP 8	3.8	N	426990 ↗
E	98m S	476870 165080	ARBORFIELD GARRISON TP 9	3.5	N	426991 ↗
E	98m S	476870 165080	ARBORFIELD GARRISON TP 10	3.5	N	426992 ↗
E	98m S	476870 165080	ARBORFIELD GARRISON TP 11	3.4	N	426993 ↗
28	102m N	477460 166070	ARBORFIELD GARRISON 66	3.0	N	427054 ↗
29	109m NE	477190 165940	ARBORFIELD GARRISON 69	3.0	N	427057 ↗
30	110m N	477010 165980	ARBORFIELD GARRISON 37	6.0	N	427025 ↗
31	112m SE	477370 165180	ARBORFIELD GARRISON 96	3.0	N	427083 ↗
32	117m E	477530 165740	ARBORFIELD GARRISON 48	10.0	N	427036 ↗
33	121m N	476950 165990	ARBORFIELD GARRISON 64	3.0	N	427052 ↗
34	123m SE	476950 165090	ARBORFIELD GARRISON 97	3.0	N	427084 ↗
35	125m N	477150 165980	ARBORFIELD GARRISON 38	15.0	N	427026 ↗
36	125m SW	477570 165650	ARBORFIELD GARRISON 82	3.0	N	427070 ↗
37	125m S	477240 165150	ARBORFIELD GARRISON 99	3.0	N	427086 ↗
38	129m W	476350 165730	POPERINGHE BARRACKS ARBORFIELD TP 9	2.6	N	13469645 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
39	137m NW	476410 165810	POPERINGHE BARRACKS ARBORFIELD TP 1	2.1	N	13469567 ↗
40	139m S	477680 165610	ARBORFIELD GARRISON 83	3.0	N	427071 ↗
41	139m S	477620 165610	ARBORFIELD GARRISON 86	3.0	N	427074 ↗
42	147m E	477460 165290	ARBORFIELD GARRISON 93	3.0	N	427080 ↗
43	150m W	476330 165640	POPERINGHE BARRACKS ARBORFIELD TP 18	2.6	N	13469729 ↗
44	155m NW	477360 166100	ARBORFIELD GARRISON 25	6.0	N	427013 ↗
45	161m E	477860 165800	ARBORFIELD GARRISON 79	3.0	N	427067 ↗
46	166m N	476920 166050	ARBORFIELD GARRISON 63	3.0	N	427051 ↗
47	168m SE	477150 165110	ARBORFIELD GARRISON 98	3.0	N	427085 ↗
48	172m W	476300 165690	POPERINGHE BARRACKS ARBORFIELD TP 10	2.5	N	13469646 ↗
49	173m SE	477490 165460	ARBORFIELD GARRISON 88	3.0	N	427076 ↗
50	173m NW	476340 165800	POPERINGHE BARRACKS ARBORFIELD TP 5	2.4	N	13469599 ↗
51	176m S	477290 165090	ARBORFIELD GARRISON 100	3.0	N	427087 ↗
52	184m N	476840 166070	ARBORFIELD GARRISON 62	3.0	N	427050 ↗
53	188m E	477550 165570	ARBORFIELD GARRISON 85	3.0	N	427073 ↗
54	191m W	476300 165600	ARBORFIELD GARRISON BH1-6 7 8	-1.0	N	426981 ↗
55	196m NW	476400 165870	POPERINGHE BARRACKS ARBORFIELD TP 2	2.6	N	13469596 ↗
56	201m N	477380 166160	ARBORFIELD GARRISON 22	6.0	N	427010 ↗
57	205m W	476270 165720	POPERINGHE BARRACKS ARBORFIELD TP 8	2.6	N	13469629 ↗
58	205m NW	477330 166140	ARBORFIELD GARRISON 23	15.0	N	427011 ↗
59	208m SE	477530 165460	ARBORFIELD GARRISON 89	3.0	N	427077 ↗
F	209m N	477280 166110	ARBORFIELD GARRISON 61	3.0	N	427049 ↗
60	212m N	477030 166080	ARBORFIELD GARRISON 35	10.0	N	427023 ↗
61	217m W	476290 165550	POPERINGHE BARRACKS ARBORFIELD TP 15	2.6	N	13469728 ↗
62	218m NW	476740 166060	ARBORFIELD GARRISON 34	6.0	N	427022 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
63	225m W	476250 165650	POPERINGHE BARRACKS ARBORFIELD TP 11	2.8	N	13469658 ↗
F	230m N	477270 166130	ARBORFIELD GARRISON 24	6.0	N	427012 ↗
64	239m SE	477480 165110	ARBORFIELD GARRISON 101	3.0	N	427088 ↗
65	242m N	477150 166100	ARBORFIELD GARRISON 36	6.0	N	427024 ↗
66	246m N	476930 166130	ARBORFIELD GARRISON 33	6.0	N	427021 ↗
67	250m E	477540 165200	ARBORFIELD GARRISON 95	3.0	N	427082 ↗

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	2

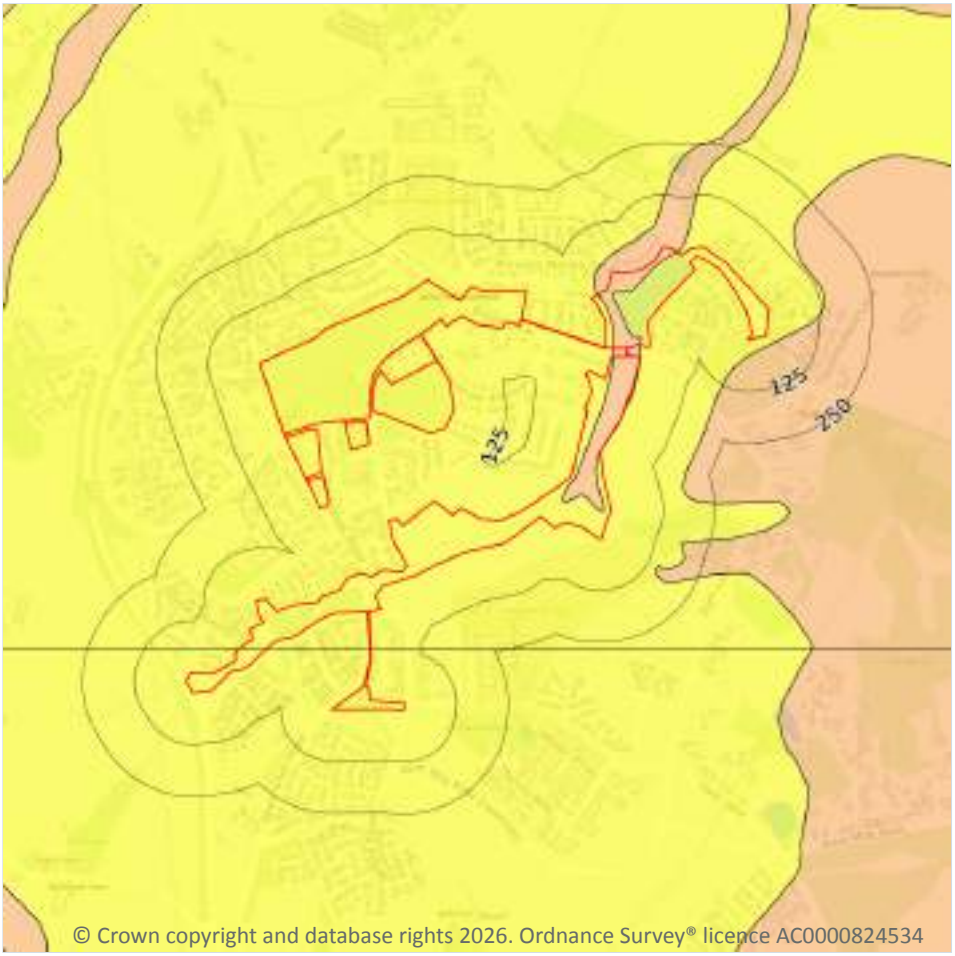
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 116 >**

Location	Hazard rating	Details
On site	**Low**	**Ground conditions predominantly medium plasticity.**
23m SE	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



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Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	3

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

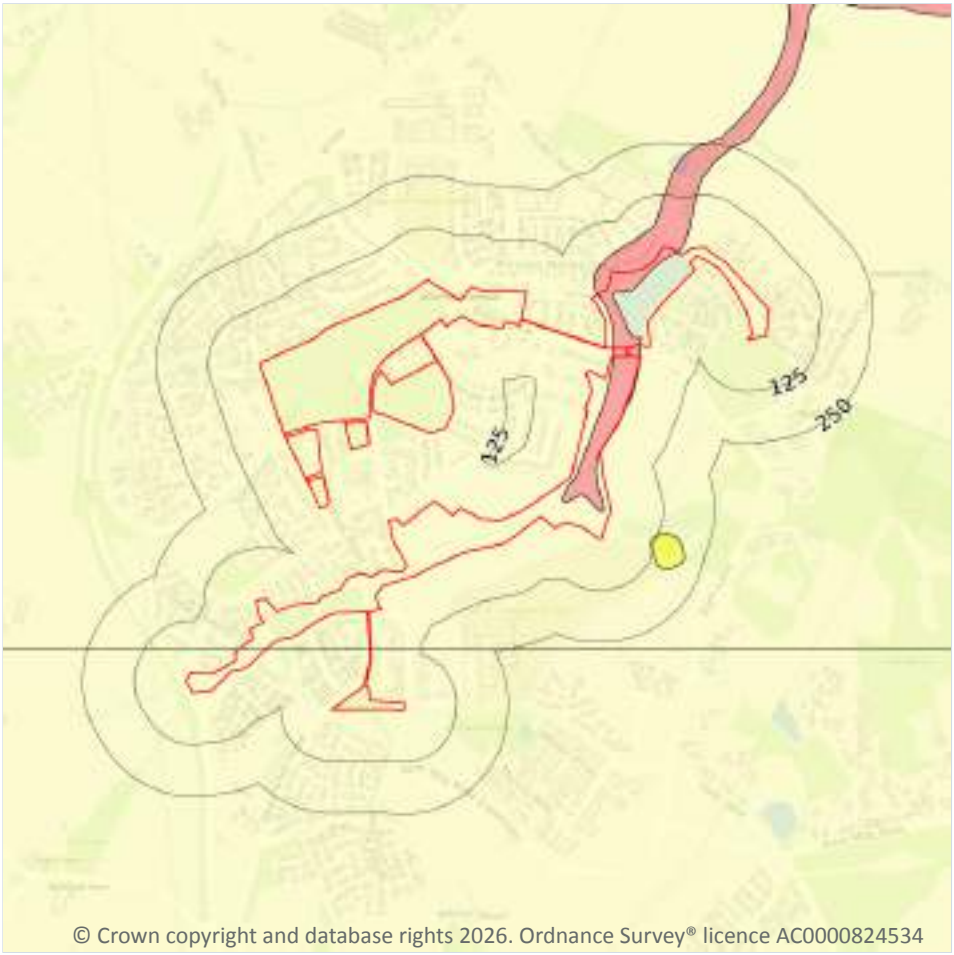
Features are displayed on the Natural ground subsidence - Running sands map on **page 117 >**

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.**

Location	Hazard rating	Details
On site	**Low**	**Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.**
23m SE	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



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Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	2

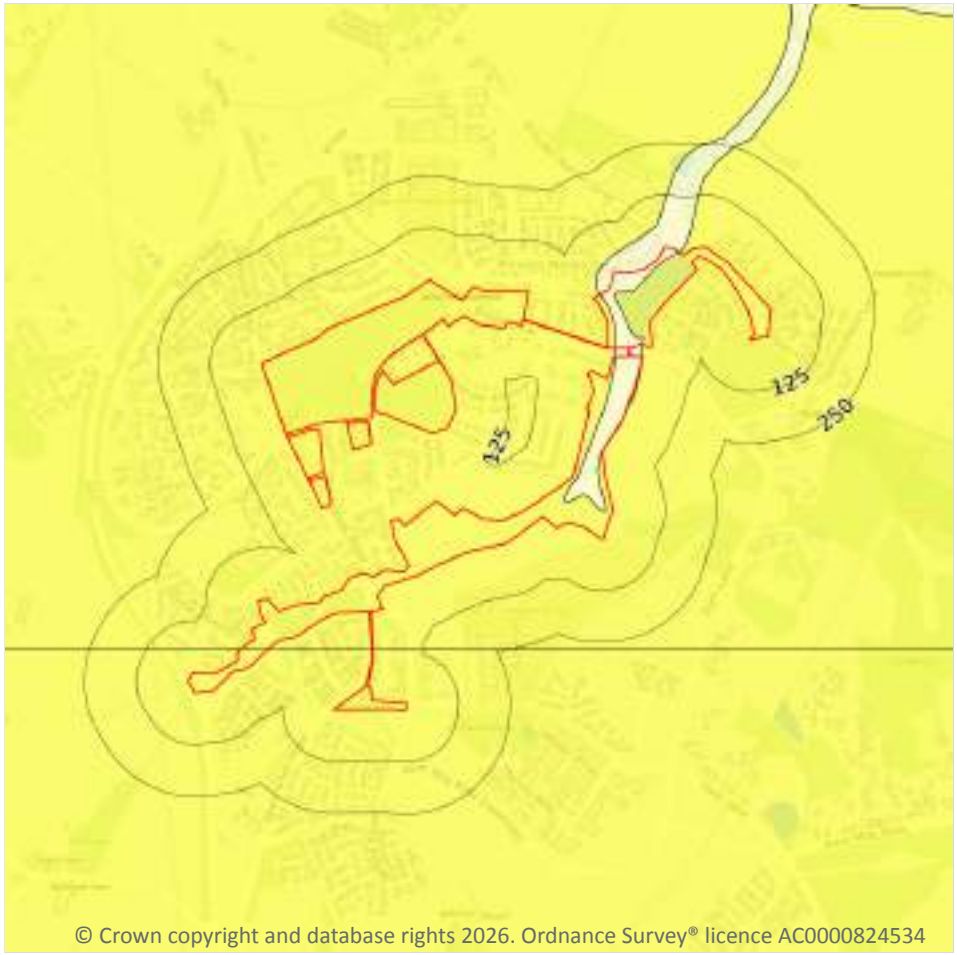
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 119 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



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Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	2

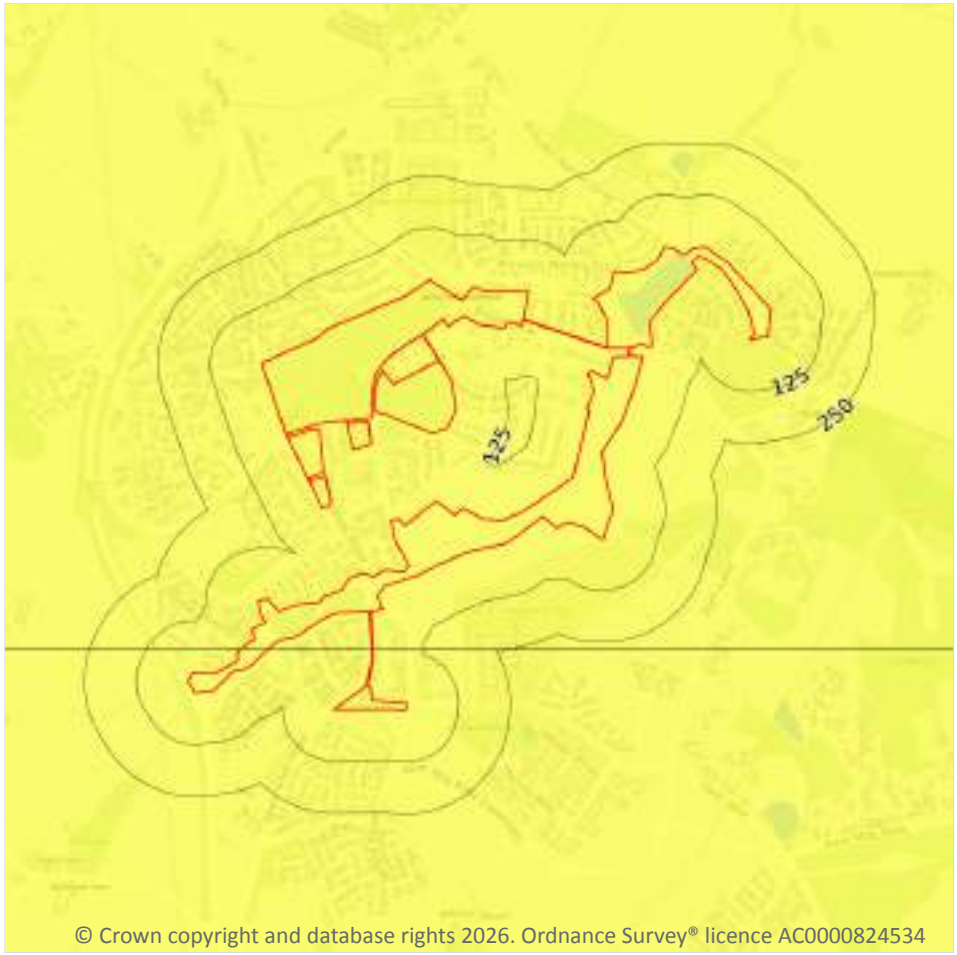
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 121 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



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Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	1

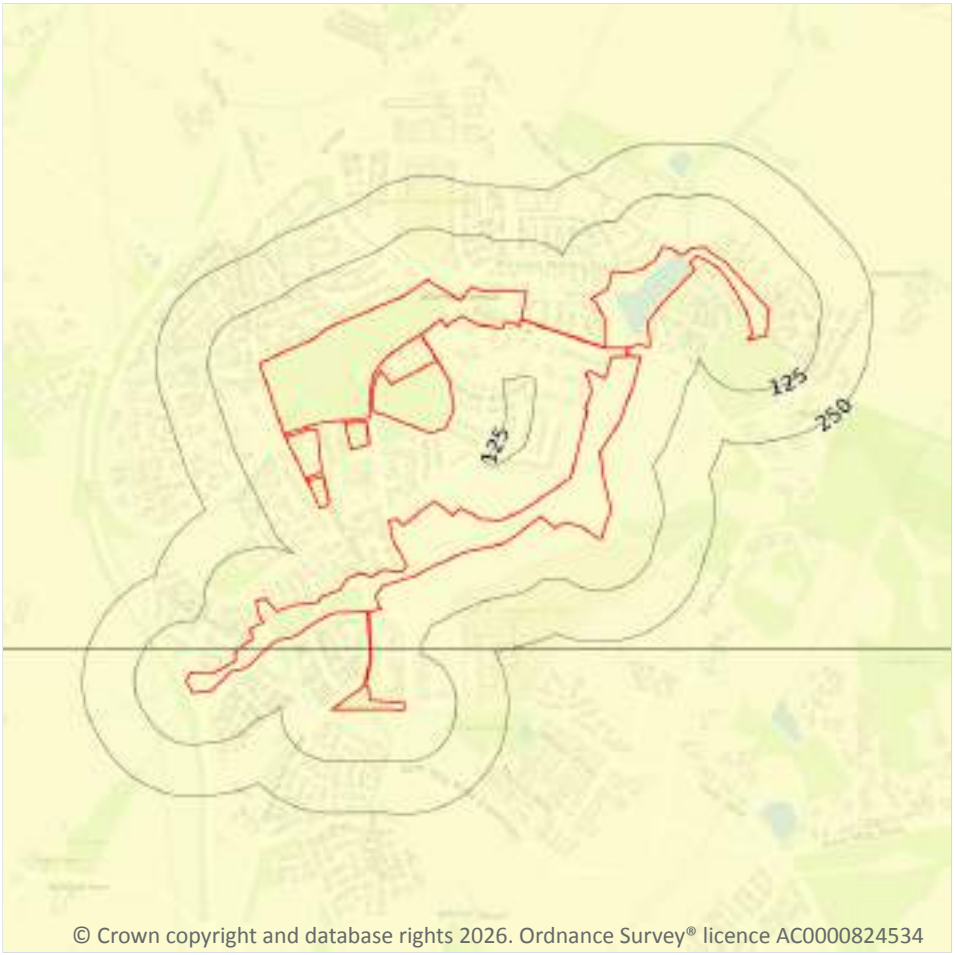
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 122 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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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 123 >**

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



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Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	3

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 and ground workings map on **page 125 >**

ID	Location	Details	Description
F	130m NW	Name: Whitehall Address: Arborfield, READING, Berkshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
I	385m E	Name: Hogwood Shaw Brick Works Address: Arborfield Garrison, WOKINGHAM, Berkshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
L	461m NW	Name: Targets Farm Brick Field Address: Arborfield Garrison, WOKINGHAM, Berkshire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	**35**

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

Features are displayed on the Mining and ground workings map on **page 125 >**

ID	Location	Land Use	Year of mapping	Mapping scale
1	**On site**	**Disused Sewage Works**	**1969**	**1:10000**
A	**On site**	**Filter Beds**	**1938**	**1:10560**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Filter Beds**	**1932**	**1:10560**
A	**On site**	**Filter Beds**	**1932**	**1:10560**
B	**On site**	**Filter Beds**	**1938**	**1:10560**
B	**On site**	**Filter Beds**	**1932**	**1:10560**
B	**On site**	**Filter Beds**	**1932**	**1:10560**
C	**On site**	**Ponds**	**1938**	**1:10560**
C	**On site**	**Ponds**	**1910**	**1:10560**
C	**On site**	**Ponds**	**1898**	**1:10560**
C	**On site**	**Ponds**	**1932**	**1:10560**
D	**On site**	**Pond**	**1938**	**1:10560**
D	**On site**	**Pond**	**1910**	**1:10560**
E	**On site**	**Pond**	**1988**	**1:10000**
E	**On site**	**Pond**	**1979**	**1:10000**
2	3m W	Unspecified Heap	1988	1:10000
B	3m N	Filter Beds	1932	1:10560
B	3m N	Filter Beds	1932	1:10560
3	21m SE	Unspecified Heap	1988	1:10000
B	36m NW	Sewage Tanks	1932	1:10560
B	36m NW	Sewage Tanks	1932	1:10560
B	37m NW	Sewage Tanks	1938	1:10560
F	52m NW	Brick and Tile Works	1988	1:10000
F	52m NW	Brick and Tile Works	1969	1:10000
F	52m NW	Brick and Tile Works	1979	1:10000
G	57m W	Pond	1932	1:10560
G	57m W	Pond	1938	1:10560
4	105m SW	Brick Works	1938	1:10560
5	128m NW	Unspecified Heap	1988	1:10000
H	136m NW	Clay Pit	1988	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
H	136m NW	Clay Pit	1969	1:10000
H	136m NW	Clay Pit	1979	1:10000
6	138m W	Unspecified Ground Workings	1969	1:10000
H	152m NW	Unspecified Pit	1961	1:10560
I	164m E	Brick Works	1938	1:10560

This is data is sourced from Ordnance Survey®/Groundsure.

18.3 Underground workings

Records within 1000m	0

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

This is data is sourced from Ordnance Survey®/Groundsure.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	1

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

Features are displayed on the Mining and ground workings map on **page 125 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
F	33m NW	Whitehall	Clay, bricks	Surface mineral working	Valid	06/47

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	1

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

Location	Mineral type
On site	**Stone**

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	0

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

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

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

This data is sourced from Groundsure.

20 Radon



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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%

20.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 134 >**

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

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	21

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 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 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**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
23m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
25m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
30m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
31m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
36m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km^2.

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey® mapping.

This data is sourced from the Ordnance Survey®.

22.4 Historical railway and tunnel features

Records within 250m	0

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

This data is sourced from Ordnance Survey®/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey® and OpenStreetMap.

22.8 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

22.9 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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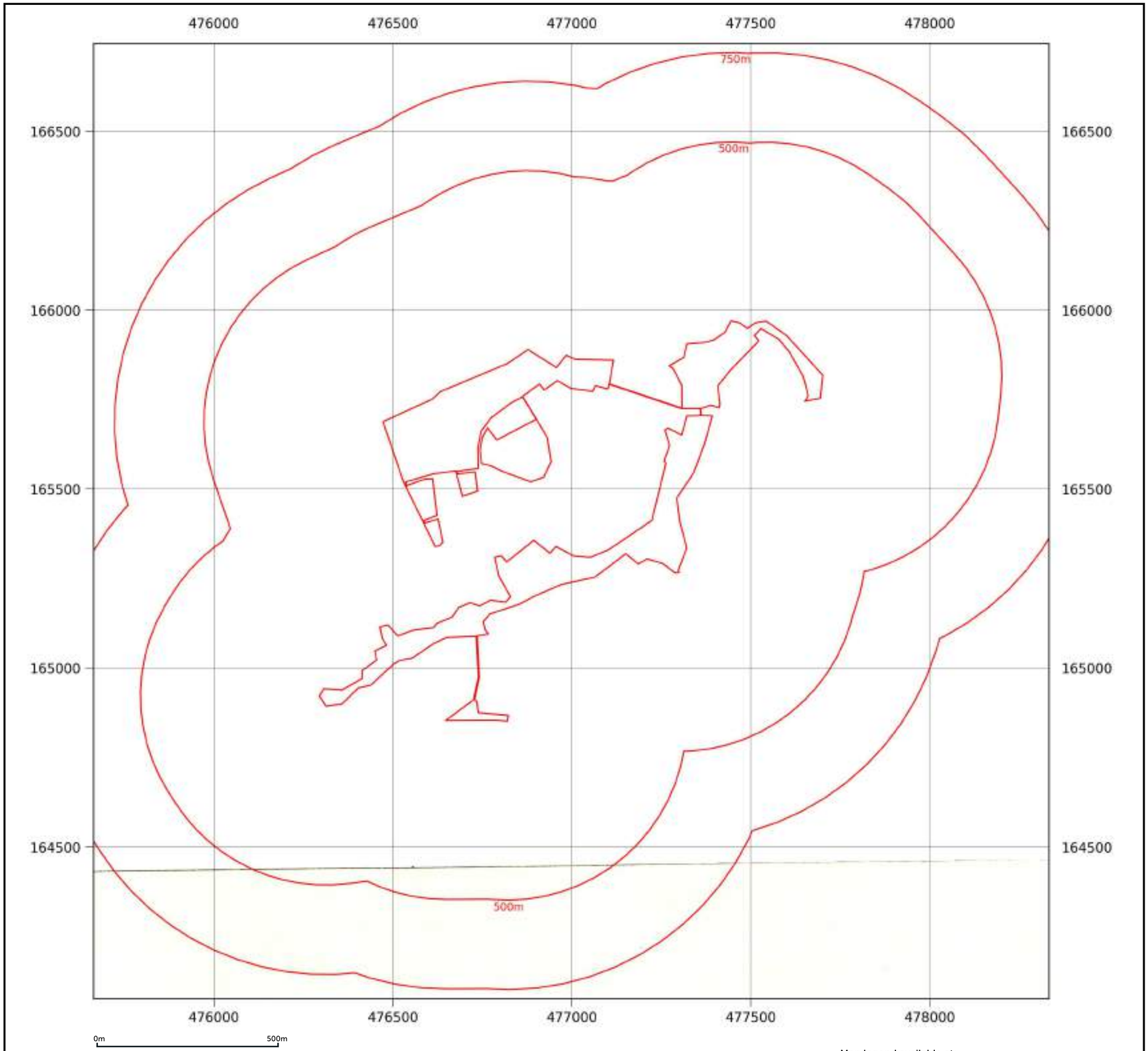

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Map legend available at:
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Map Insight

Site details:	Arborfield Green Development WBC Land
Client ref:	crest chiltern
Report ref:	GS-FCR-2ZO-CWW-1U6
Grid ref:	476930.77, 165536.47
Production date:	1 June 2026

Map name:	County Series
Map date:	1896
Scale:	1:10,560
Printed at:	1:10,560

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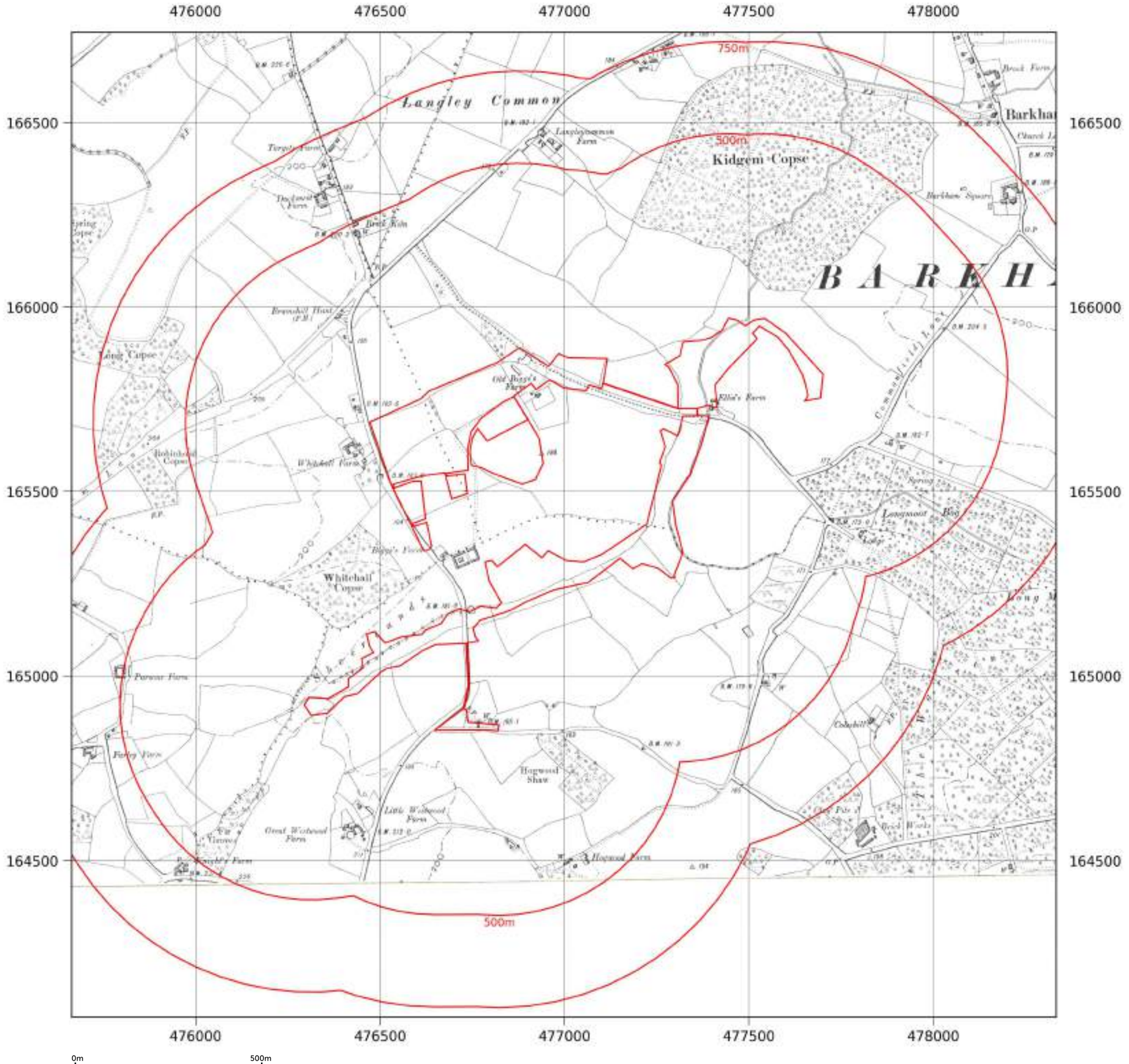

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Grid ref:	476930.77, 165536.47
Production date:	1 June 2026

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Grid ref:	476930.77, 165536.47
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476000 476500 477000 477500 478000

166500 166000 165500 165000 164500

750m
500m
500m

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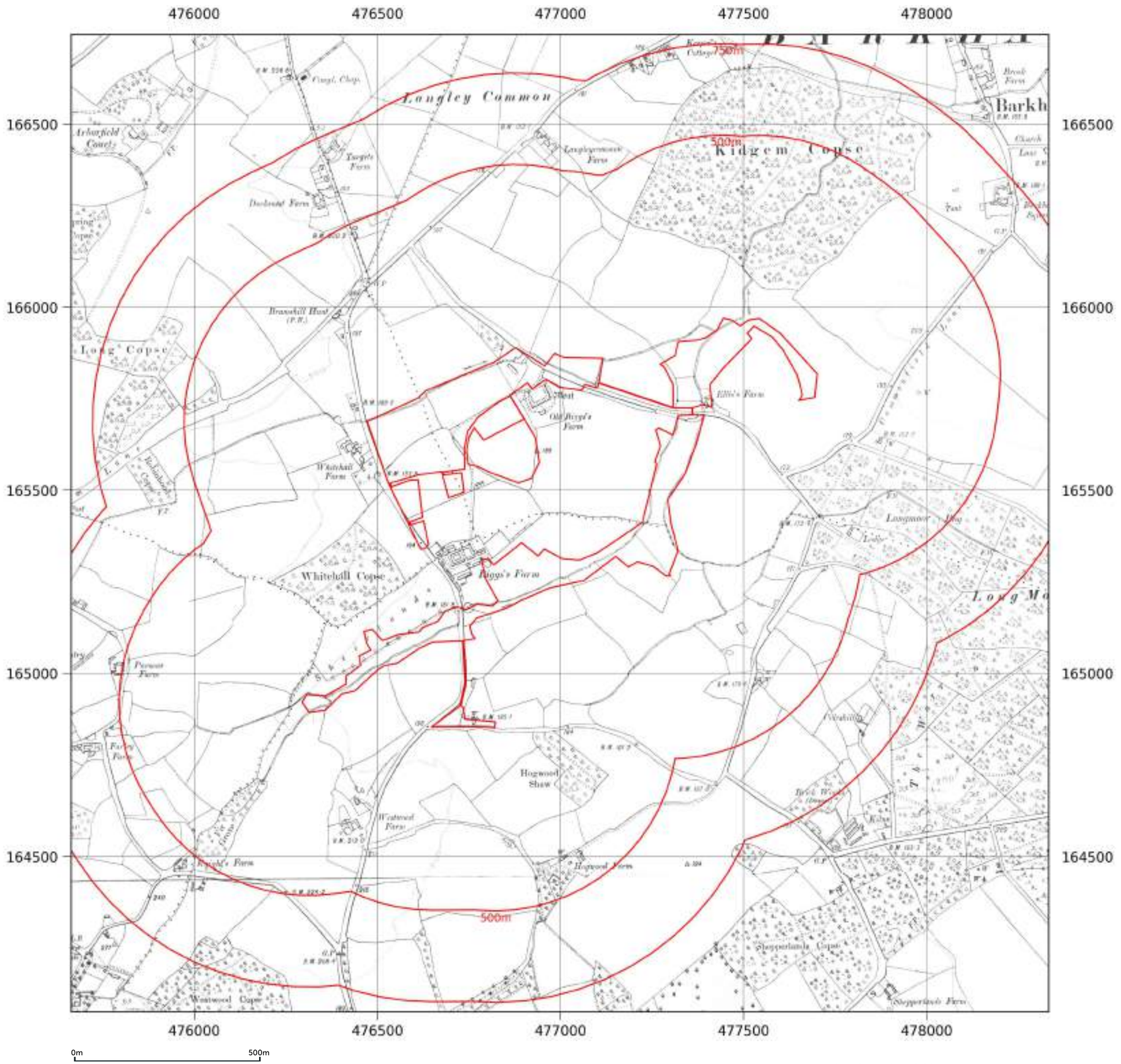

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Map Insight

Site details:	Arborfield Green Development WBC Land
Client ref:	crest chiltern
Report ref:	GS-FCR-2ZO-CWW-1U6
Grid ref:	476930.77, 165536.47
Production date:	1 June 2026

Map name:	County Series
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Date: 1910
Surveyed: 1871
Revised: 1910

Date: 1909
Surveyed: 1871
Revised: 1909

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Map Insight

Site details:	Arborfield Green Development WBC Land
Client ref:	crest chiltern
Report ref:	GS-FCR-2ZO-CWW-1U6
Grid ref:	476930.77, 165536.47
Production date:	1 June 2026

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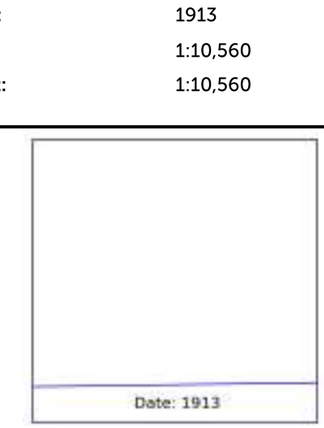

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LOCATION INTELLIGENCE

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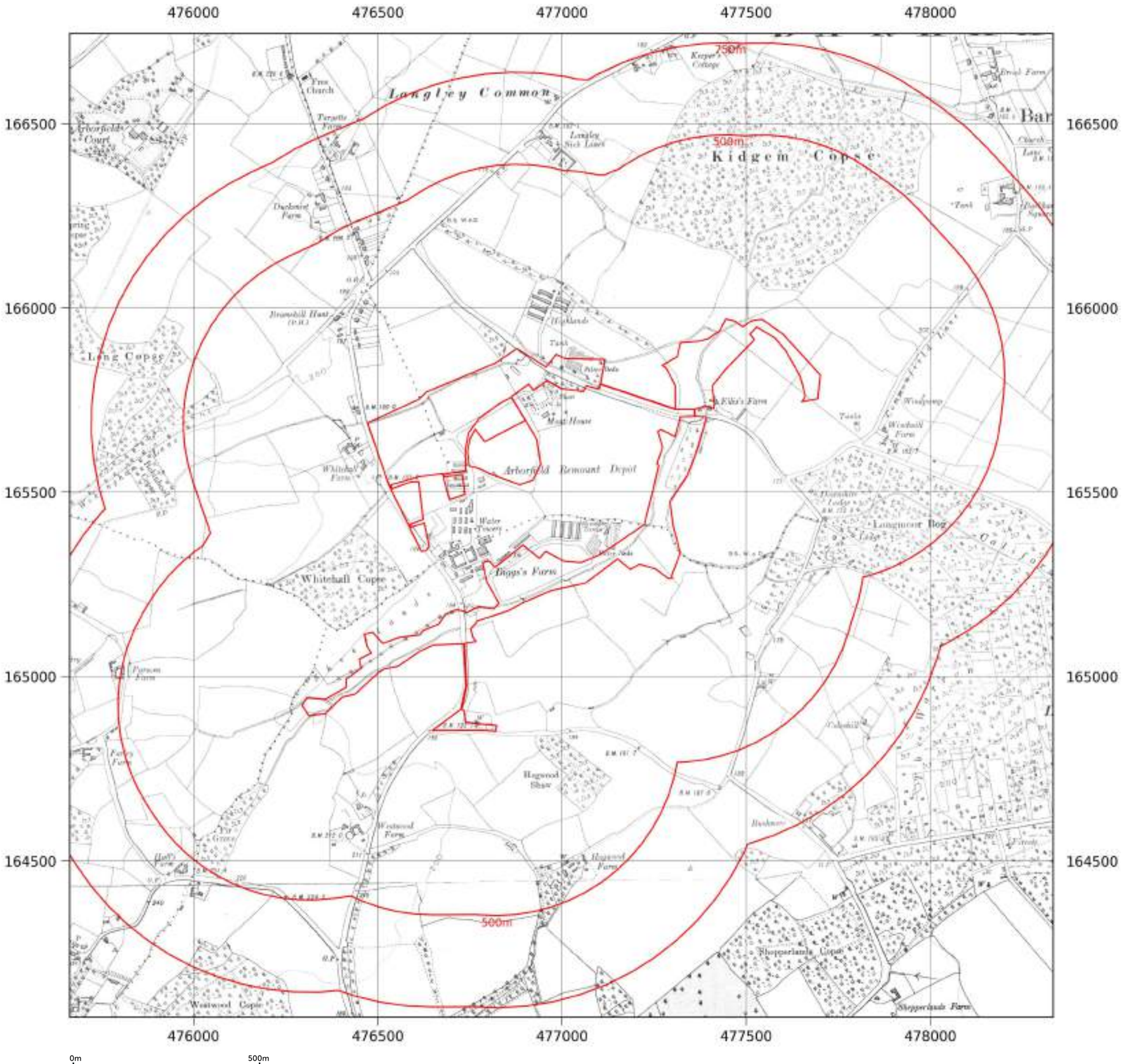

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Map Insight

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Client ref:	crest chiltern
Report ref:	GS-FCR-2ZO-CWW-1U6
Grid ref:	476930.77, 165536.47
Production date:	1 June 2026

Map name:	County Series
Map date:	1930-1932
Scale:	1:10,560
Printed at:	1:10,560

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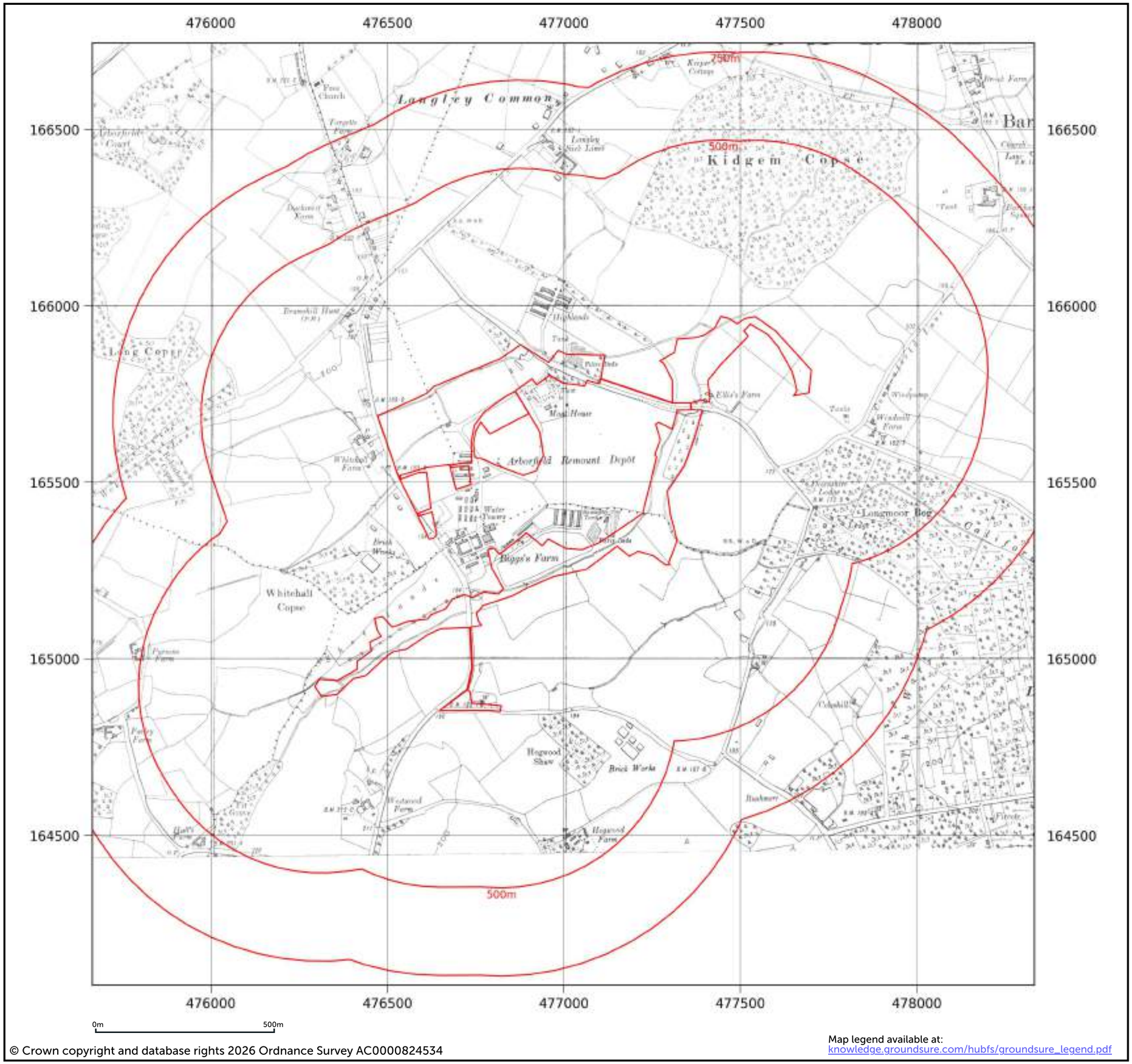

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Map Insight

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Report ref:	GS-FCR-2ZO-CWW-1U6
Grid ref:	476930.77, 165536.47
Production date:	1 June 2026

Map name:	County Series
Map date:	1938
Scale:	1:10,560
Printed at:	1:10,560

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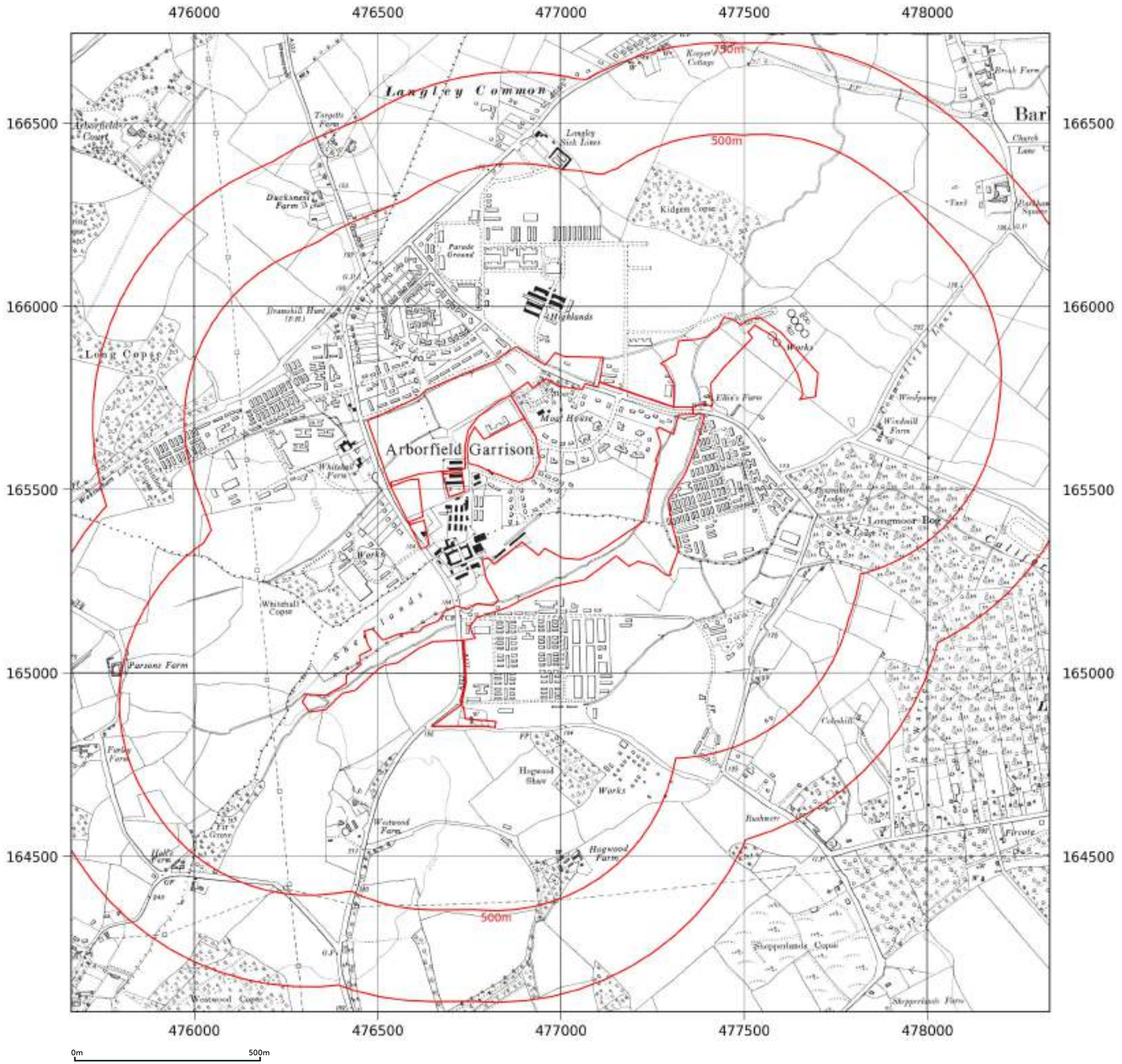

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Map legend available at:
knowledge.groundsure.com/hubfs/groundsure_legend.pdf

Map Insight

Site details:	Arborfield Green Development WBC Land
Client ref:	crest chiltern
Report ref:	GS-FCR-2ZO-CWW-1U6
Grid ref:	476930.77, 165536.47
Production date:	1 June 2026

Map name:	Provisional
Map date:	1960-1961
Scale:	1:10,560
Printed at:	1:10,560

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Date: 1961
Surveyed: 1956
Revised: 1956
Copyright: 1961

Date: 1960
Surveyed: 1956
Revised: 1960

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Map Insight

Site details:	Arborfield Green Development WBC Land
Client ref:	crest chiltern
Report ref:	GS-FCR-2ZO-CWW-1U6
Grid ref:	476930.77, 165536.47
Production date:	1 June 2026

Map name:	National Grid
Map date:	1969
Scale:	1:10,000
Printed at:	1:10,000

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Date: 1969
Surveyed: 1969
Revised: 1969

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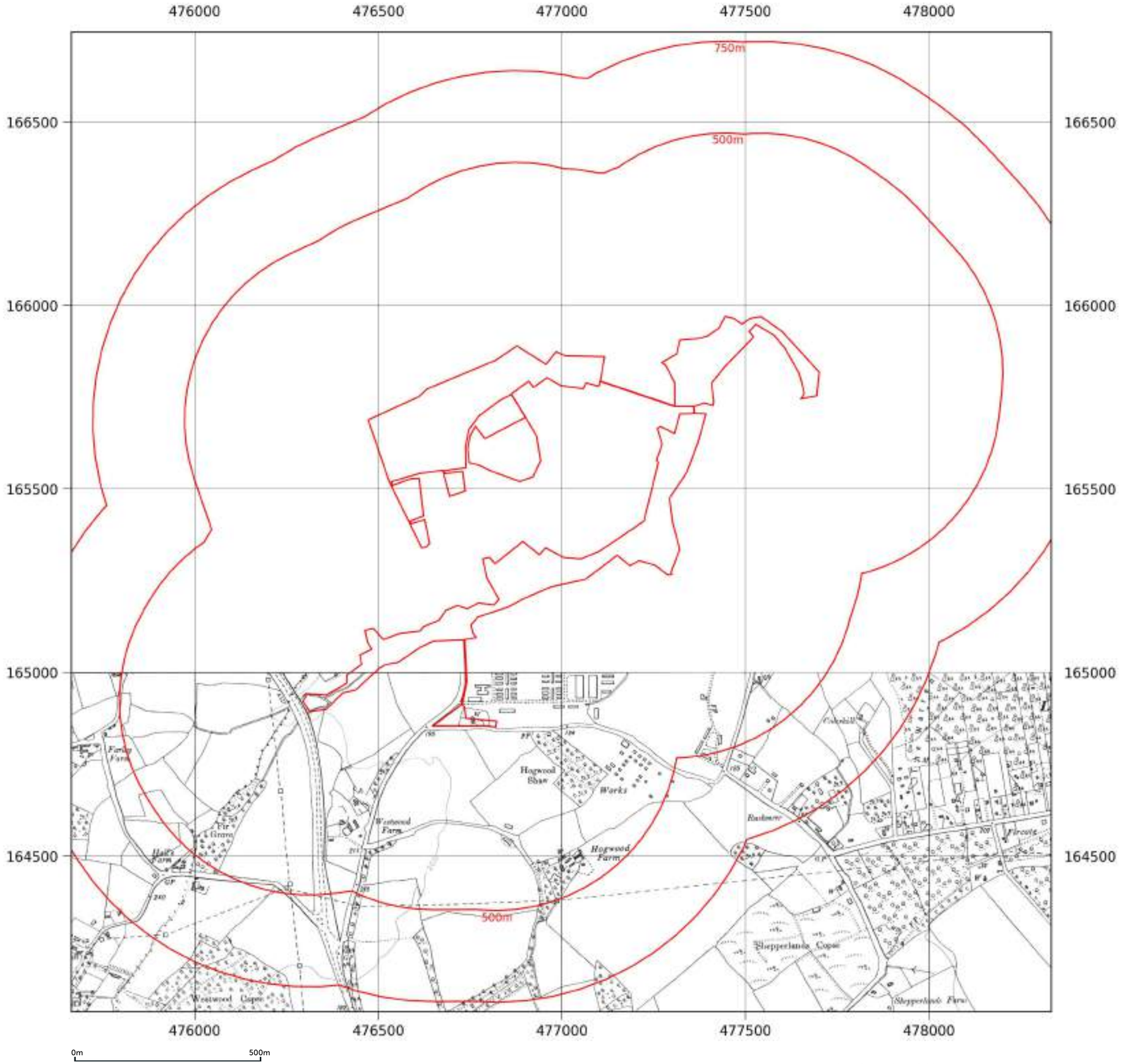

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Map Insight

Site details:	Arborfield Green Development WBC Land
Client ref:	crest chiltern
Report ref:	GS-FCR-2ZO-CWW-1U6
Grid ref:	476930.77, 165536.47
Production date:	1 June 2026

Map name:	Provisional
Map date:	1975
Scale:	1:10,560
Printed at:	1:10,560

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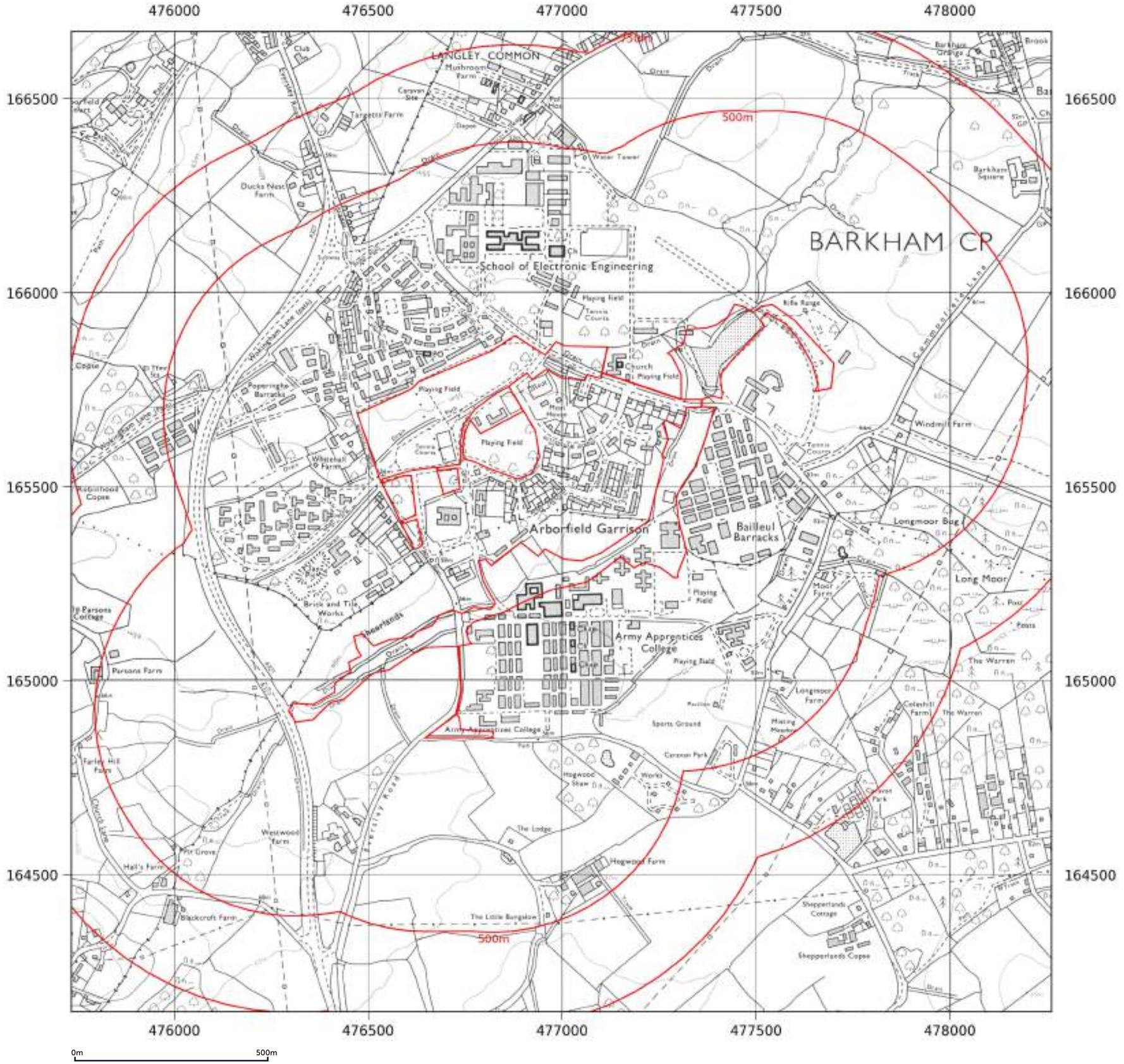

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Map legend available at:
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Map Insight

Site details:	Arborfield Green Development WBC Land
Client ref:	crest chiltern
Report ref:	GS-FCR-2ZO-CWW-1U6
Grid ref:	476930.77, 165536.47
Production date:	1 June 2026

Map name:	National Grid
Map date:	1978-1979
Scale:	1:10,000
Printed at:	1:10,000

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Date: 1979
Surveyed: 1976
Revised: 1979
Copyright: 1979
Levelled: 1969

Date: 1978
Surveyed: 1974
Revised: 1978
Copyright: 1978
Levelled: 1975

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Map Insight

Site details:	Arborfield Green Development WBC Land
Client ref:	crest chiltern
Report ref:	GS-FCR-2ZO-CWW-1U6
Grid ref:	476930.77, 165536.47
Production date:	1 June 2026

Map name:	National Grid
Map date:	1988
Scale:	1:10,000
Printed at:	1:10,000

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Date: 1988
Surveyed: 1988
Revised: 1988

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Map Insight

Site details:	Arborfield Green Development WBC Land
Client ref:	crest chiltern
Report ref:	GS-FCR-2ZO-CWW-1U6
Grid ref:	476930.77, 165536.47
Production date:	1 June 2026

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

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Date: 2001

Date: 2001

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Map Insight

Site details:	Arborfield Green Development WBC Land
Client ref:	crest chiltern
Report ref:	GS-FCR-2ZO-CWW-1U6
Grid ref:	476930.77, 165536.47
Production date:	1 June 2026

Map name:	National Grid
Map date:	2010
Scale:	1:10,000
Printed at:	1:10,000

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Date: 2010

Date: 2010

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Map Insight

Site details:	Arborfield Green Development WBC Land
Client ref:	crest chiltern
Report ref:	GS-FCR-2ZO-CWW-1U6
Grid ref:	476930.77, 165536.47
Production date:	1 June 2026

Map name:	National Grid
Map date:	2015
Scale:	1:10,000
Printed at:	1:10,000

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Date: 2015

Date: 2015

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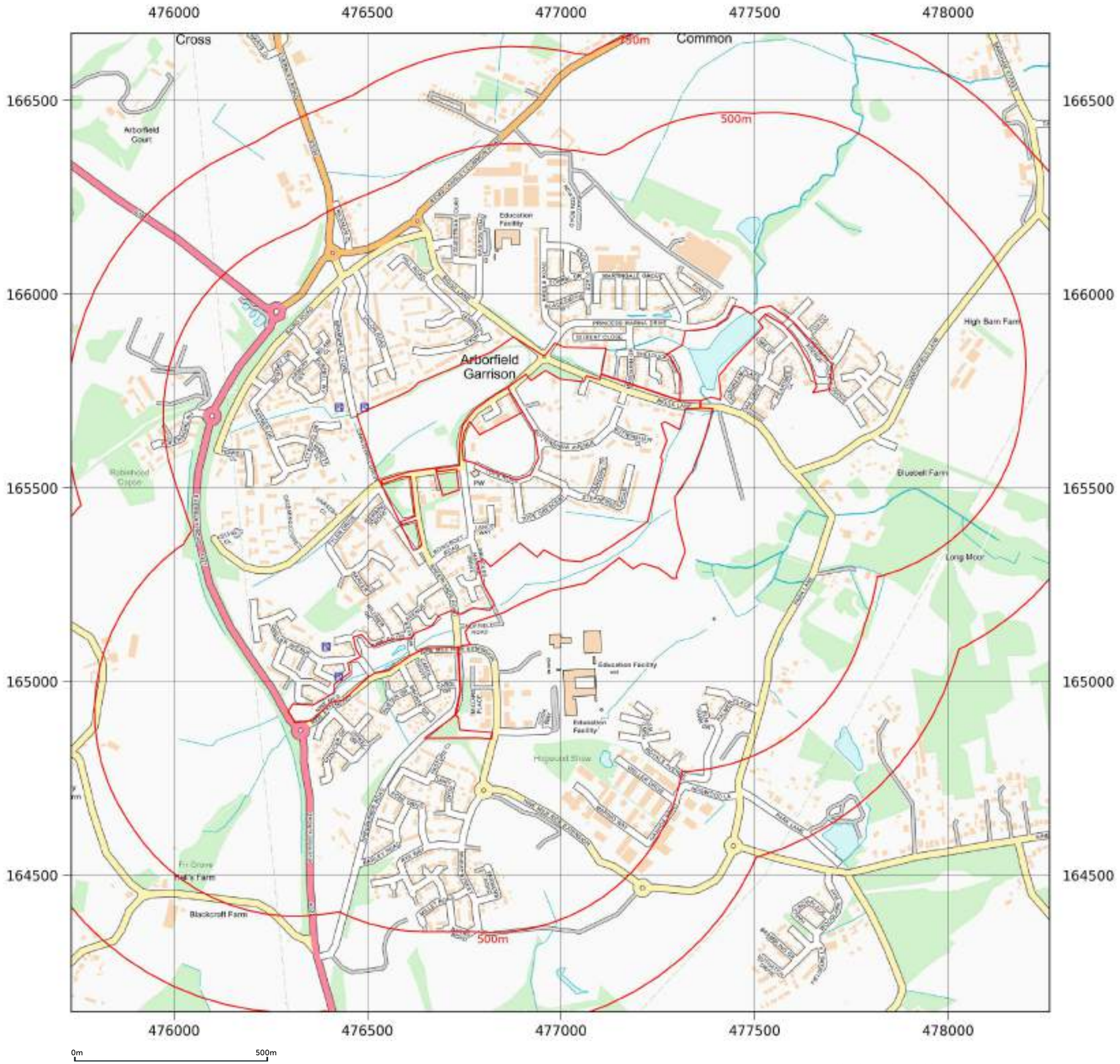

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Map Insight

Site details:	Arborfield Green Development WBC Land
Client ref:	crest chiltern
Report ref:	GS-FCR-2ZO-CWW-1U6
Grid ref:	476930.77, 165536.47
Production date:	1 June 2026

Map name:	National Grid
Map date:	2025
Scale:	1:10,000
Printed at:	1:10,000

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Date: 2025

Date: 2025

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4th January 2016

West Berkshire & Wokingham | Environmental Health & Licensing

Culture And Environmental Protection
Environmental Health and Licensing
Wokingham Borough Council
Shute End
Wokingham
Berkshire RG40 1WW

Our Ref: 69254/ET
Your Ref:
Please ask for: Erica Taylor
Direct Line: 01635 503675
Fax: (0118) 900 7479
e-mail: erica.taylor@westberks.gov.uk

Mr Dominic Brightman
Wilson Bailey Partnership
Carters Barn
Sherrington
Wiltshire
BA12 0SN

Dear Mr Brightman,

RE: ENVIRONMENTAL INFORMATION ENQUIRY – LAND AT ARBORFIELD GARRISON, SHEERLANDS ROAD, ARBORFIELD

Thank you for your enquiry regarding the above site.

The environmental health database has been searched and I have the following answers to your queries:

1. According to our records there is one known area of filled ground within 250m of the site. Whitehall Brick and Tile Works Filled Ground is located adjacent the north-western part of the site at National Grid Reference SU 763 652 (hatched in red on the attached plan). The site is approximately 1.5 hectares in size and is part of an old brick and tile works which ceased brick making and winning of clay in approximately 1980. The clay pit associated with the works was licensed (license no. 54/12/5/8) to accept household, commercial and industrial waste between 1977 and 1982, although it is believed actual filling occurred in 1981 and 1982 only. We have evidence to suggest the pit was 14.7 m deep and filled with 6 million m^3 of waste. The landfill is believed to have been capped with uncompacted clay and restored by 1986.

2. In relation to redevelopment of the former Brick and Tile Works site for residential land use there were several conditions placed on the developer (Persimmon Homes) to ensure the site was suitable for housing. These included undertaking site investigations and any associated remediation to ensure the site was made fit for use as well as undertaking a detailed investigation to determine the presence and future impact of landfill gas and appropriate measures to control it. Reclamation of Whitehall Brick and Tile Works Filled Ground was undertaken at this time in order to provide a safe open safe and to protect the nearby housing development from potential landfill gas migration.

   All areas proposed as rear gardens were sampled and analysed for contaminants. We have evidence to suggest that there was a small amount of soil contamination found on the site where the kilns and some of the workshops had been situated. It is understood that all contaminated soil identified was excavated

and transferred for use as the subsoil in the reprofiling of the landfill. All excavated areas were backfilled with chemically-certified clean soil.

The reclamation of the former landfill during 1998 and 1999 included the following protective measures:

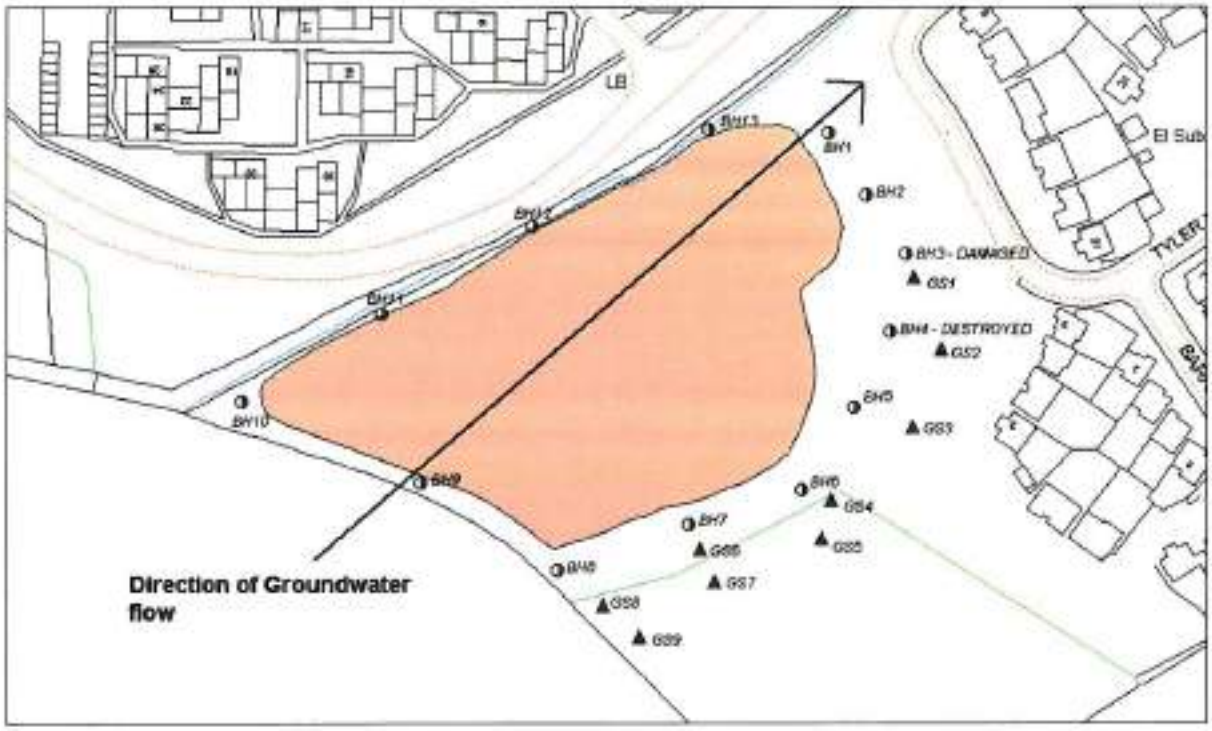
- Reprofiled geocomposite cap consisting of compacted clay and welded HDPE geomembrane to protect the surface environment from the waste beneath, minimise ingress and maximise run off of surface water;
- An engineered perimeter drainage system that directs clean, surface run off to an existing nearby drainage ditch and away from the reclaimed and redeveloped areas;
- An integral gas venting system incorporated within the cap that ensures the safe venting of landfill gas to the atmosphere;
- An enclosing perimeter gas venting trench lined with welded geomembrane; and
- Perimeter gas and ground water monitoring boreholes located outside of the gas venting trench on all sides of the reclaimed area.

We have the following reports on file relating to these works. Copies of these reports are available in PDF format on request:

1) Site at Whitehall Brick & Tile Works, Arborfield, Berkshire, Report on Gas Protection Measures dated October 2005 by Card Geotechnics.
2) Whitehall Brick & Tile Works Construction Quality Assurance of Landfill Remediation Scheme and Soil Geochemical Scheme dated January 2000 by Golder Associates.
3) Letter on detailed design drawings for remediation of residential development at Whitehall Brick & Tile Works dated 11th July 1997 from Persimmon Homes.
4) Construction Quality Assurance Plan to be Implemented during the Remediation of Whitehall Brick & Tile Works dated March 1998 by Golder Associates.
5) Whitehall Brick & Tile Works Proposed Remediation of Contaminated Land & Landfill, Specification, Preamble, Bill of Quantities and Drawings dated 6th March 1998 by Golder Associates.
6) Aftercare Monitoring Plan, Former Whitehall Brick & Tile Works, Arborfield dated October 1998 by Golder Associates.

Regular gas, surface water, groundwater and leachate monitoring was undertaken for several years following redevelopment around the landfilled area. The location of the monitoring wells are shown on Map 1 overleaf. Quarterly and annual reports have been received up to March 2009. Copies of these reports are available in PDF format on request.

Map 1 Whitehall Brick and Tile Works Filled Ground



The following summary has been extracted from the most recent quarterly monitoring report (January to March 2009) dated May 2009 by Golder Associates:

Perimeter boreholes – No methane was detected in any of the perimeter monitoring wells and gas spikes. Carbon dioxide was recorded in all the perimeter boreholes at least once, with a maximum concentration of 6.6 % vol. in BH12 in March.

Landfill boreholes – Methane was recorded from a low of 1.1% vol. to a high of 74.5% vol. in March. Carbon dioxide was recorded from a low of 2.6% vol. to a high of 16.8% in March.

Surface water – Electrical conductivity, chloride, ammoniacal nitrogen and pH were slightly higher at the downstream monitoring point than upstream. COD concentrations were higher in the upstream surface water sampling compared to the downstream surface water samples. No concentrations at either monitoring location exceeded the Freshwater Environmental Quality Standards.

Groundwater - The maximum concentrations of most of the determinands were higher down-hydraulic gradient at BH13 than up-hydraulic gradient at BH9. Furthermore, concentrations of manganese, potassium, sulphate and ammoniacal nitrogen exceeded their respective Drinking Water Standards at BH13 in March, but none were exceeded in BH9. On the basis of these observations, there appears to be evidence to suggest some impact on down-hydraulic gradient groundwater quality.

Leachate - The composition of leachate is typical of that produced by aged wastes.

3. A review of the available historic map records indicates the site appears to have been occupied by open land presumably in agricultural use from approximately 1872 to present day. Potential historic sources of contamination are evident in the vicinity of the site during that time. On mapping records from 1926-32 a brick works is present to the north of the site and a sewage farm approximately 330m north-east of the site. On mapping records from the 1960s to present day the Army Apprentices College and part of the larger Arborfield Garrison are located adjacent east of the site.

4. The land uses described above have the potential to cause contamination at the site. However, we have no records of any known contamination or pollution issues associated with the site itself.

5. We have no records of any known site investigations, gas monitoring or remediation having been carried out at the site itself.

   Intrusive investigations have recently been carried out to the east of the site on part of the former Arborfield Garrison which is being redeveloped for a new Secondary School under Wokingham Borough Council Planning Consent F/2015/0001 dated 13/01/15. The consent included a condition requiring an assessment of potential contamination and, if necessary, remediation. The following reports were submitted in connection with the development under application No. C/2015/0949.

   - Arborfield Garrison Geoenvironmental Interpretative Report dated January 2015 by AECOM
   - Proposed Arborfield Secondary School Geo-environmental Remediation Strategy dated March 2015 by AECOM

   Investigations revealed hotspots of lead, PAH and asbestos contamination which required remediation. Remediation and validation is currently ongoing. During remediation previously unidentified buried demolition and asbestos waste has been encountered on site which required additional removal and off-site disposal.

   Copies of these reports can be freely downloaded from the Council's website at http://www.wokingham.gov.uk/planning-and-building-control/planning-application/search-planning-applications/ using Application No. C/2015/0949.

6. We have no records of any known animal burials on the site. Historic and current animal burial records are held by Defra (08708 506506) and I recommend that you seek their advice on burials on this site.

7. We have no records of any known petroleum storage tanks on or adjacent to the site.

8. The site has not been designated as Contaminated Land under Part IIA of the Environmental Protection Act 1990 at the current time and no Remediation Notices have been served.

9. The prioritisation of potentially contaminated sites under Part IIA of the Environmental Protection Act 1990 has not yet been completed for Wokingham Borough. At the current time we are not considering taking any action at the site in question under Part IIA on a formal or informal basis.

Current authorised landfills, watercourses, water abstractions, discharges and radioactive substances are licensed by the Environment Agency, South East Area, Swift House, Frimley Business Park, Camberley, GU16 7SQ, Telephone: 08708 506506 and I recommend that you seek their advice on pollution incidents and sites in this area.

The information is given on the understanding that the Council accepts no liability for the use to which it is put and gives no guarantee as to the state of the land in question. The information given represents the position within the environmental health database at the date of this letter and the Council can give no guarantee as to the impact of any future events in relation to the sites in question.

The fee of £96 (inc VAT) is now due and you will receive an invoice for this shortly. Please do not send any payment until you have received this invoice.

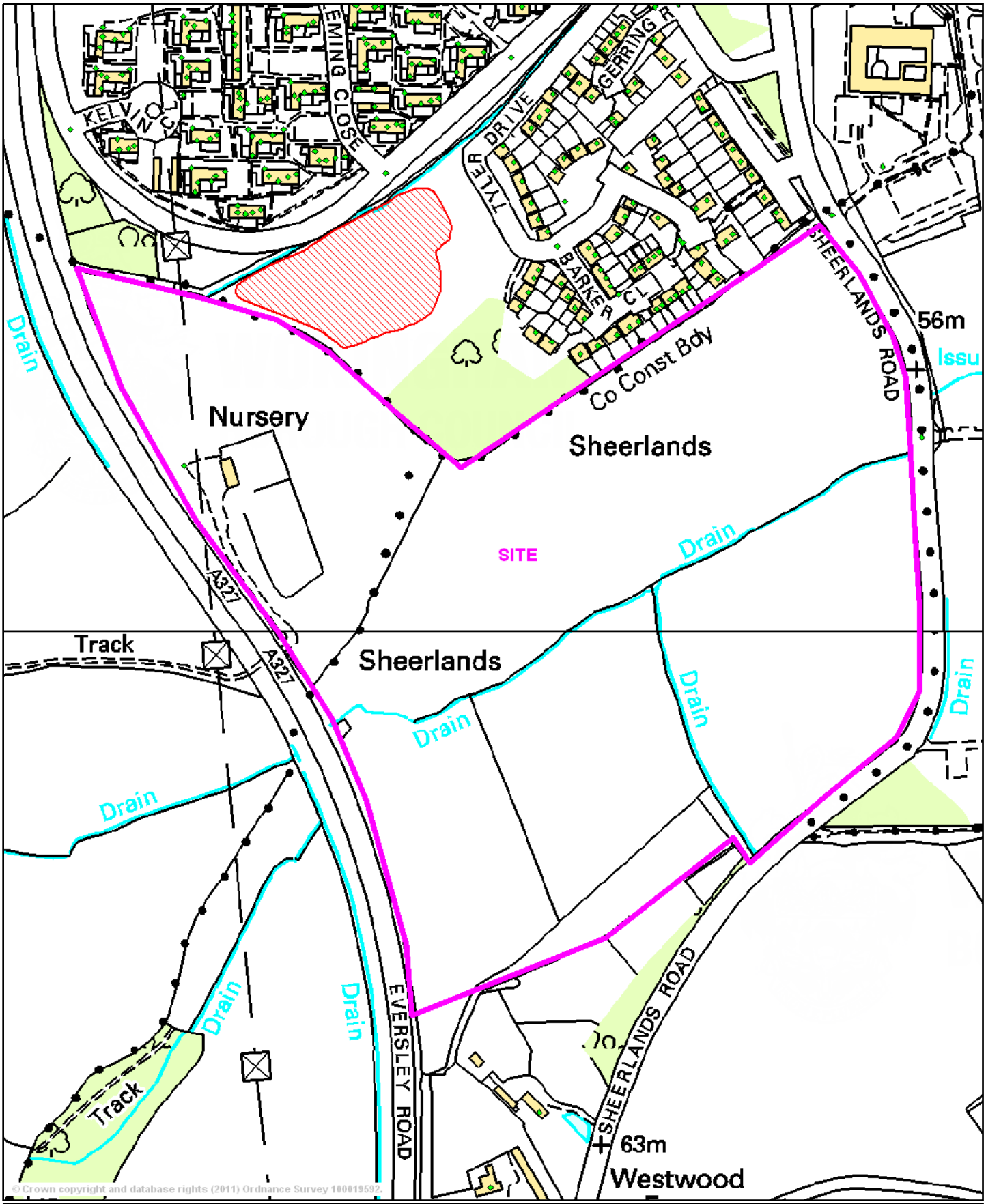
Should you have any queries, or require further information or advice, please do not hesitate to contact me at this office.

Yours sincerely,



Erica Taylor
Senior Scientific Officer
Environmental Quality Team

Whitehall Brick & Tile Works Filled Ground



WOKINGHAM BOROUGH COUNCIL

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Erica Taylor

Date 4/1/2016

Scale 1/3788

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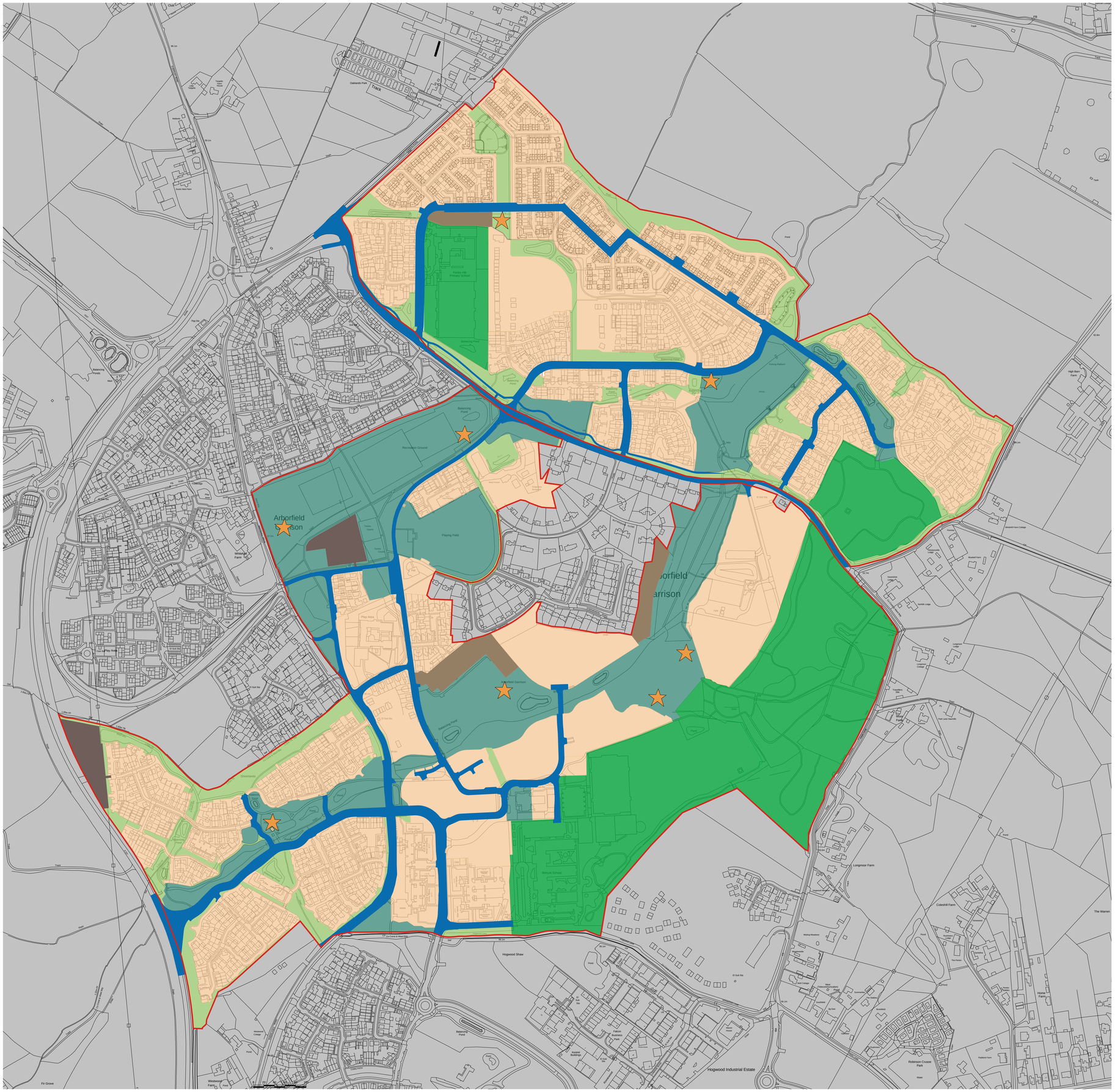

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Key

- Estate Boundary
- Development Parcels
- Managed by the Arborfield Green CIC
- Play Areas
- Adopted by WBC
- Proposed to be adopted by WBC
- Adopted Highways
- Proposed to be adopted by Barkham Parish Council
- Proposed to be adopted by Arborfield & Newland Parish Council

Rev.	Description.	Date.	Initial.

Site: Arborfield Garrison

Drg Title: Estate Management Plan

Scale: (A1) 1:2500	Date: 29.11.24	Drawn: CN	Checked: DD

Drawing No: CNC-AG-GN-016 Revision: -

DRAFT

Crest Nicholson Operations Ltd
500 Bashwood Lang Road
Bourne Business Park
Addlestone
Surrey, KT15 2HJ
Tel:01932 580555
www.crestnicholson.com

Studio C
1 Church Road
Brandon
Suffolk
IP27 0EN
Tel: 07889 297759