

**Antoneys Close, Harrow**

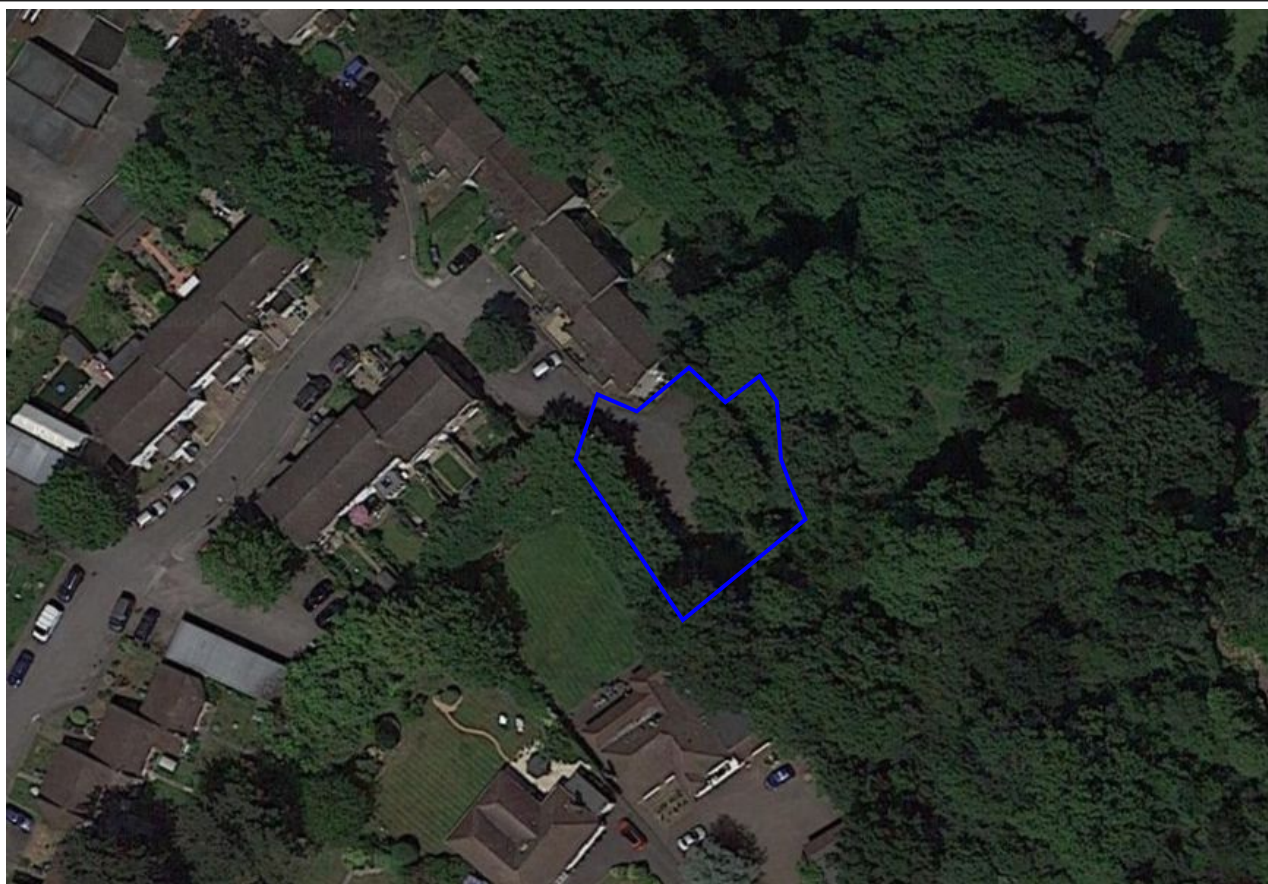
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**Environmental - Geotechnical - Laboratory - Foundations**

13 Triangle Business Park, Stoke Mandeville, HP22 5BL

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**PHASE ONE GEO-ENVIRONMENTAL DESK STUDY REPORT  
(PRELIMINARY RISK ASSESSMENT)**



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Client: London Borough of Harrow

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Report

LA20006 CL 001

Date

March 2020

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### List of Attachments

Attachment One:	Notice to Interested Parties
Attachment Two:	Environmental Data Report and Historical Maps
Attachment Three:	Geo-Hazards Report

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## 1 Introduction

### 1.1 The Purpose of This Assessment

The site is located at the end of Antoneys Close in Harrow and comprises a parking area owned by London Borough of Harrow. We understand that London Borough of Harrow proposes to sell the site as part of the Greater London Authority small sites programme, which is a programme where small publicly-owned sites are brought forward for future redevelopment in the private sector.

In advance of selling the site, we have been commissioned by London Borough of Harrow to undertake a Phase One Geo-Environmental Report (also known as a Preliminary Risk Assessment).

The purpose of this assessment was to develop an initial conceptual site model of the site and establish whether or not there are potentially unacceptable risks to sensitive receptors from potential contaminants that may be present in the soil and/or groundwater under the site. We have not carried out any intrusive investigation of the site and have made no measurements of actual contamination levels that may be present.

Our assessment has been undertaken in accordance with the guidelines presented in the Environment Agency, 'Model Procedures for the Management of Land Contamination'<sup>1</sup>. and Environment Agency Guidance on Requirements for Land Contamination Reports<sup>2</sup>.

As part of this assessment we have also undertaken a desk based review of how various geotechnical considerations may impact upon the proposed development scheme.

All the activities comprising this assessment were carried out in accordance with the procedures set out in our Quality Manual. Your attention is drawn to the Notice to Interested Parties included as Attachment One.

### 1.2 The Scope of This Assessment

Our assessment includes:

- A review of geological, hydrogeological and hydrological information to establish environmental sensitivities at the site and in its vicinity;
- A review of available historical information to determine the historical use of the site and its immediate surroundings;
- Compilation of a Conceptual Site Model and completion of a Qualitative Risk Assessment;
- A preliminary assessment of potential geotechnical engineering considerations;
- Preparation of a report, outlining findings and recommendations, including requirements for any further work;

The findings and opinions in this review are based upon information obtained from the sources outlined above. Information obtained from third parties has been accepted at face value however we do not guarantee its authenticity. Where practicable the information provided was confirmed from a secondary source such as the review of available municipal records.

As site comprises a parking area, we have not completed a site inspection as part of this desk study review as we do not consider it would add to our conceptual understanding of potential contaminant sources.

<sup>1</sup> DEFRA and Environment Agency (2004) "Model Procedures for the Management of Land Contamination" Report CLR 11 Environment Agency, Bristol.

<sup>2</sup> Environment Agency (2005) "Guidance on Requirements for Land Contamination Reports" Version 1.

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### 1.3 Previous Reports Relating to the Site

We do not hold, and have not been provided with any, previous reports relating to the site.

### 1.4 Proposed Development Plans

#### Proposed Developments

We understand that London Borough of Harrow proposes to sell the site as part of the Greater London Authority small sites programme, which is a programme where small, publicly-owned sites are forward for future redevelopment in the private sector.

At this stage we are not aware of the detailed scope of the proposed future redevelopment, although we understand the site will most likely be developed with residential property(s).

We understand that this report is to be submitted in support of a planning application for the site's redevelopment. Whilst our assessment has not been compiled to directly satisfy any specific planning conditions the information contained in this report may assist in satisfying any such requirements. We note however that further works may be required.

**Table One: Proposed Development Plans**

## 2 Desk Study Information

### 2.1 Site Description, Location and Setting

Site Description	The site comprises a parking area at the end of a Antoneys Close (residential street).		
Grid Reference	511680 190180	Location	The site is located in a suburb of Harrow, approximately 3.9km to the north west of Harrow town centre.
Elevation (approx)	~55m AOD		
Size (approx)	0.05ha		

**Table Two: Site Location and Setting**

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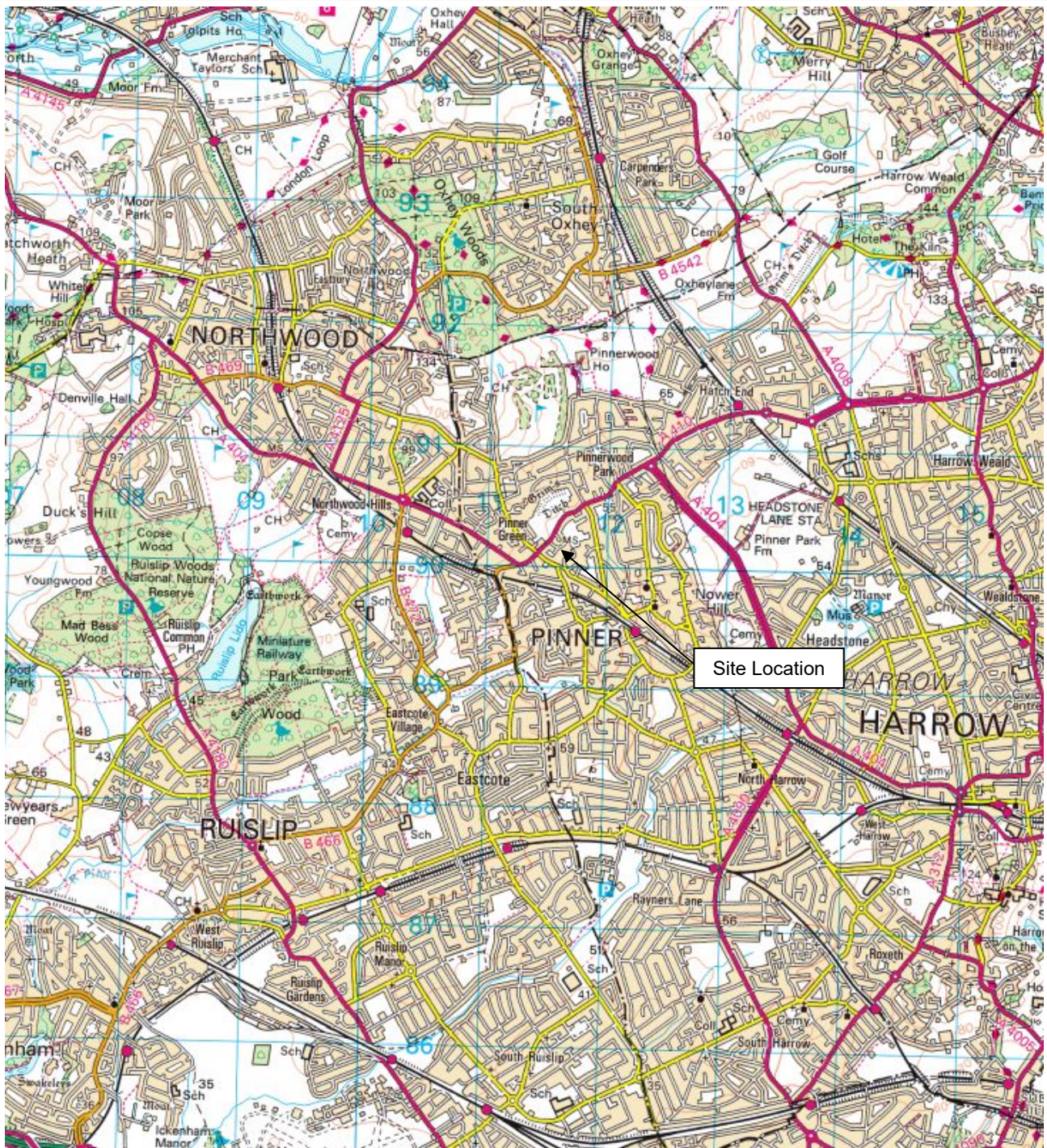


Figure One: Site Location Map

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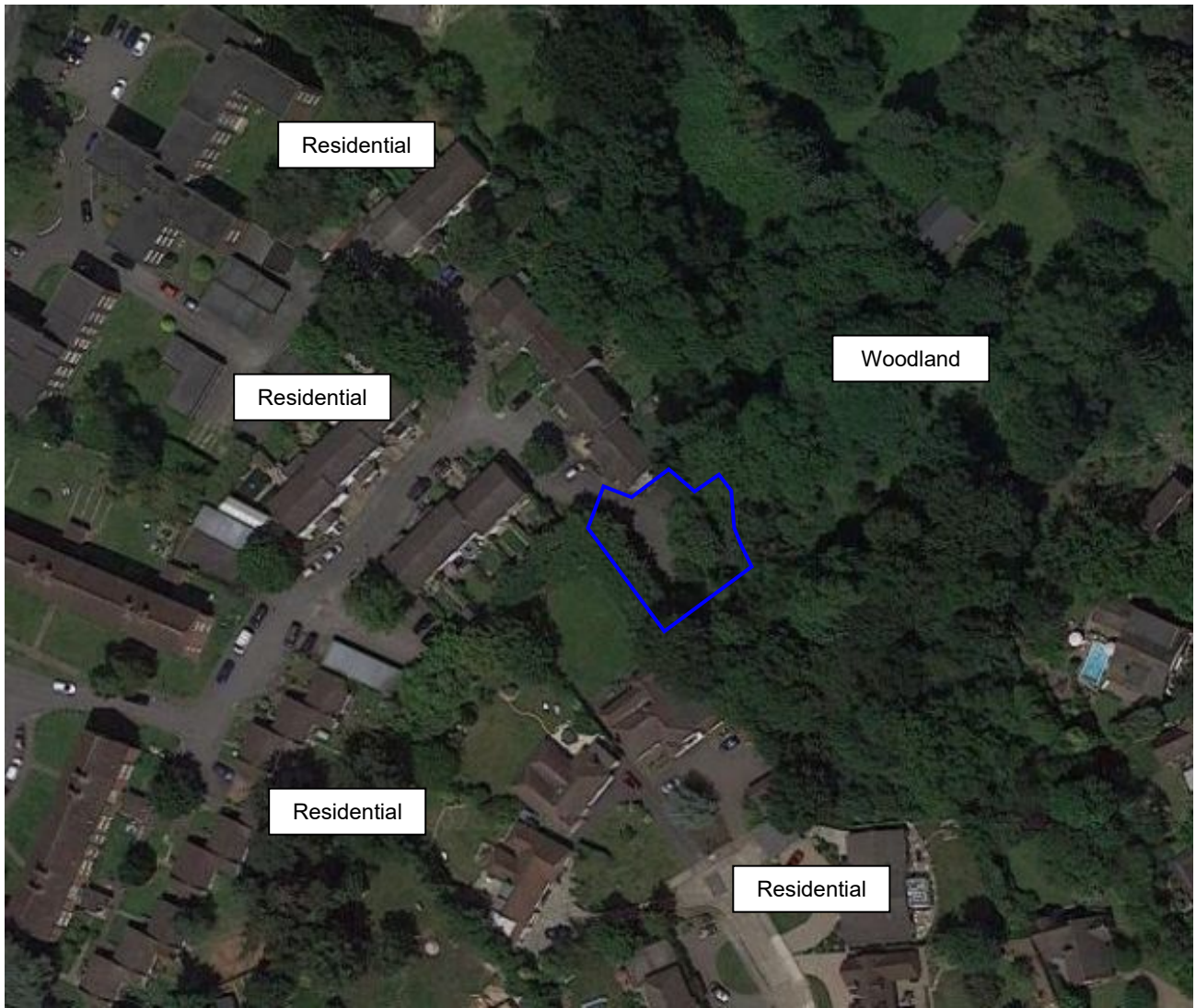


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**Figure Two: Aerial Photograph Showing Site and Surrounding Area**

Direction	Details
North	There are residential properties located within 5m of the northern site boundary.
East	There is a small woodland located within 5m of the eastern site boundary.
South	There are trees located along the southern boundary and residential properties located 10m beyond.
West	There are residential properties located within 5m of the western site boundary.

**Table Three: Surrounding Land Use**

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### 2.2 Geology, Hydrogeology and Hydrology

	Geological Unit	Description	Estimated Thickness	Data Source
Drift Geology	None described at the site's locality.			British Geological Survey (BGS)
Solid Geology	Lambeth Group	Clay, silt and sand	>20m	
	Seaford Chalk Formation And Newhaven Chalk Formation	Chalk	>100,	
Nearby Borehole Records	The BGS hold records for a borehole constructed 300m to the north of the site (BGS ref. TQ18NW205). This records underlying geology to comprise 0.4m of Made Ground (described as fill) overlying firm to stiff grey brown clay to the maximum borehole depth of 10.0m.			

**Table Four: Regional Geology**

	Geological Unit	Environment Agency Aquifer Classification	Data Source
Drift Geology	None described at the site's locality.		Environment Agency
Solid Geology	Lambeth Group	Secondary Aquifer (Class A)	
	Seaford Chalk Formation And Newhaven Chalk Formation	Principal Aquifer	
Nearby Borehole Records	The BGS borehole referenced above did not identify groundwater.		BGS

**Table Five: Regional Hydrogeology**

	Description	Distance	Direction	Data Source
Surface Water Features	Unnamed Stream (flowing north to south)	~250m	East	Ordnance Survey

**Table Six: Regional Hydrology**

Abstraction	Surface Water			Groundwater		
	Distance	Direction	Purpose	Distance	Direction	Purpose
Nearest	None within 1km of the site locality.					
Source Protection Zone	The site does not lie within a designated Source Protection Zone					
Site located in an Environment Agency defined 'Drinking Water Safeguard Zone'			Surface Water		Yes	
			Groundwater		No	
Data sourced from Environment Agency						

**Table Seven: Nearest Surface and Groundwater Abstractions**

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### 2.3 Site History

#### 2.3.1 Historical Maps

Date	Review of Map – Description of Land Use at Site and in the Immediate Surrounding Area	Potentially Contaminative Land-use	
		On-site	Off-site
1868 (1:10,560 Scale) 1876 / 1896 (1:2,500 Scale)	The site is unused.  The area surrounding the site is sparsely developed with large detached properties 100m to the west, 120m to the north west and 175m to the north east.	None identified	None identified
1913 / 1932 1:2,500 Scale)	The site remains unused.  There are a number of (undescribed) small structures near the western site boundary.		
1935 (1:10,560 Scale)	The site remains unused.  There has been extensive residential development 100m to the east and a train line constructed 750m to the south, which is orientated east to west.		
1959 (1:1,250 Scale)	The site remains unused.  The northern and western parts of the site are bounded by residential gardens (the associated houses are located 20m to the south and 100m to the north). There are also houses located 75m to the south east. There is an open air alter located 30m to the east.		
1959/1970 (1:1,250 Scale)	The site has been developed in its present day layout as a parking area at the end of Antoneys Close.  There are residential properties located along the northern site boundary along Antoneys Close, all in the present day layout. There are residential properties located 70m to the east.		

Copies of representative historical maps are included as Attachment Two

**Table Eight: Historical Maps Review**

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### 2.3.2 Planning Records

Date	Application Number	Local Planning Authority – Planning Records (from local planning authority website)	Evidence of Development
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Harrow Council's on-line planning portal contains no planning records for the site location.

### Table Nine: Summary of Online Planning Records

### 2.4 Additional Information

Flood Risk Zone	Flood Risk	Data Source
Zone 1	These are areas that are defined as having a low probability of flooding (land having a less than 1 in 1,000 annual probability of river or sea flooding). On this basis, and as the site is less than 1 hectare, a flood risk assessment is not likely to be required as part of future planning applications.	Environment Agency

### Table Ten: Preliminary Flood Risk Assessment

Risk	Description	Data Source
Radon Risk	The site is located in an area where the National Radiological Protection Board have determined that <1% houses exceed the recommended Action Level for radon for existing homes in the UK of 200Bqm <sup>-3</sup> (averaged over a year). No radon protective measures are necessary in the construction of new dwellings or extensions.	Public Health England
Nearest Landfill	The Environment Agency records show that there are no current or past landfill sites within 250m of the site.	Environment Agency
Degradable Material within Made Ground	No viable on-site source or off-site linkage identified. Our historic review of the site shows it has only ever been developed as a parking area and therefore significant Made Ground is unlikely to be present. There is an area of Made Ground reported 160m to the north west. The presence of Lambeth Group soils, described as low permeability clay in a nearby borehole record, would inhibit lateral migration of potentially hazardous ground gases associated with the nearby Made Ground.	Historic Mapping / Groundsure Report
Peat and Organic Matter within Alluvial Deposits	No viable source identified. No superficial deposits shown to be present beneath site or immediately surrounding area.	BGS
Degradation of Spilled or Leaked Petroleum Hydrocarbons	No viable source identified.	Historic Mapping

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Risk	Description	Data Source
Natural Deposits (e.g. Coal measure strata).	No viable source identified. Our geological review indicates surface geology comprises Lambeth Group, which is not considered a viable source of potentially hazardous ground-gas.	BGS
Organic Rich Silt Formed in Water Bodies (e.g. Ponds, docks and rivers).	No viable linkage identified. Although there is a stream 250m to the east the presence of Lambeth Group soils, described as low permeability clay in a nearby borehole record, would inhibit lateral migration of potentially hazardous ground gases.	BGS
Conclusions	<p>We have not identified potentially viable source and/or linkages of hazardous ground gases associated with the site. The site is therefore unlikely to be at-risk of impact from concentrations of hazardous ground gases.</p> <p>As such we do not consider monitoring or assessment are required as part of any future investigation works and no special precautions are likely to be required to prevent landfill gas infiltration into the current building or future developments at the site.</p>	

**Table Eleven: Hazardous Ground Gas Risk**

Risk	Description	Data Source
Risk of Coal Mining	The site is not located in an area considered to be at potential risk from coal mining.	Coal Authority
Records of Ground Workings and Non-Coal Mining	There is an area of Made Ground reported 160m to the north west associated with an 'Unspecified Pit'. Pinner Chalk Mine is located 200m to the north west, described as underground and accessed by shaft, adit or drift.	Groundsure Report
Solution Feature Risk	The site's location has been classified as 'Negligible Hazard' for risks associated with ground dissolution of soluble rocks. This classification indicates the soluble rocks present at considerable depth beneath the site (Chalk is expected to be >20m depth) but the BGS indicate that the geology is not prone to dissolution at this location.	
Shrinking or Swelling Clay	The site's location has been classified as 'Moderate Hazard' for risks associated shrinking or swelling clays. We consider this classification is associated with the underlying Lambeth Group soils, which are likely to be predominantly comprised of high plasticity soils.	
Compressible Deposits	The site's location has been classified as 'Negligible Hazard' for risks associated with compressible deposits. We consider this classification is associated with the underlying Lambeth Group. This classification indicates compressible deposits such as layers of very soft clays and peats, which can compress if loaded by overlying structures, are unlikely to be present within the Lambeth Group geology beneath the site.	

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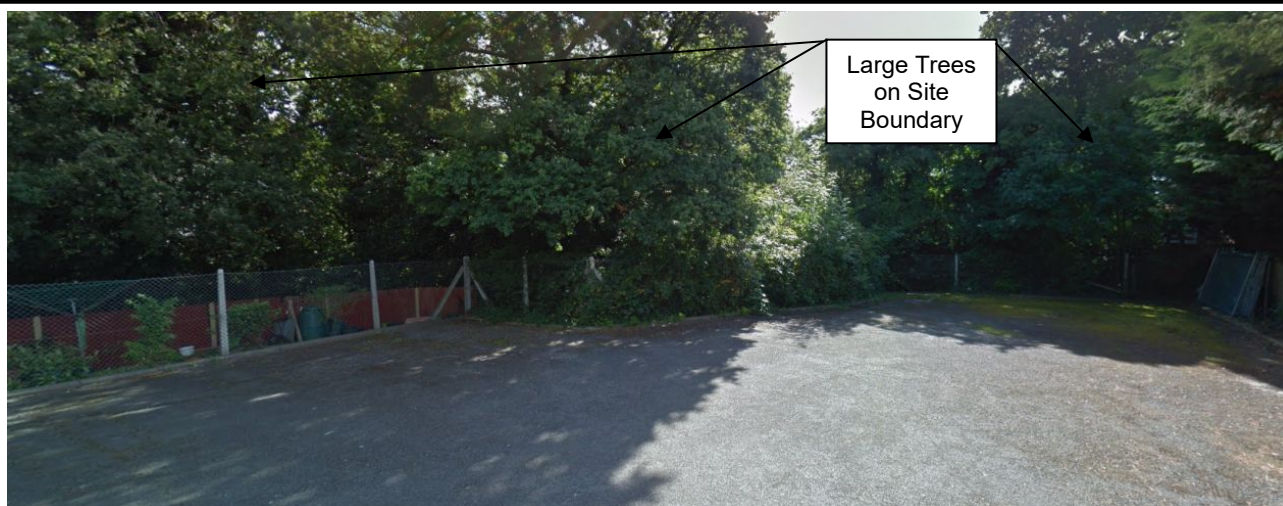
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Risk	Description	Data Source
Collapsible Deposits	The site's location has been classified as 'Very Low Hazard' for risks associated with collapsible deposits. We consider this classification is associated with the underlying Lambeth Group. This classification indicates deposits with potential to collapse when loaded and saturated are unlikely to be present within the Lambeth Group beneath the site.	Groundsure Report
Running Sands	The site's location has been classified as 'Very Low Hazard' for risks associated with running sand. We consider this classification is associated with the underlying Lambeth Group. This classification indicates there is a very low potential for running sand problems within the Lambeth Group beneath the site, although in our experience, saturated running sand layers are occasionally present at deeper depths within this geological unit.	
Landslides	The site's location has been classified as 'Very Low Hazard' for risks associated with landslides. We consider this classification is associated with the underlying Lambeth Group. This classification indicates slope instability problems within the Lambeth Group are unlikely to be present at the site.	

**Table Twelve: Other Geological Hazards**

### 3 Site Photographs

Although the scope of this desk study report does not include a site inspection, we have collated photographs of the site from on-line mapping services and provided these below.



Photograph One: Image of the site from August 2012

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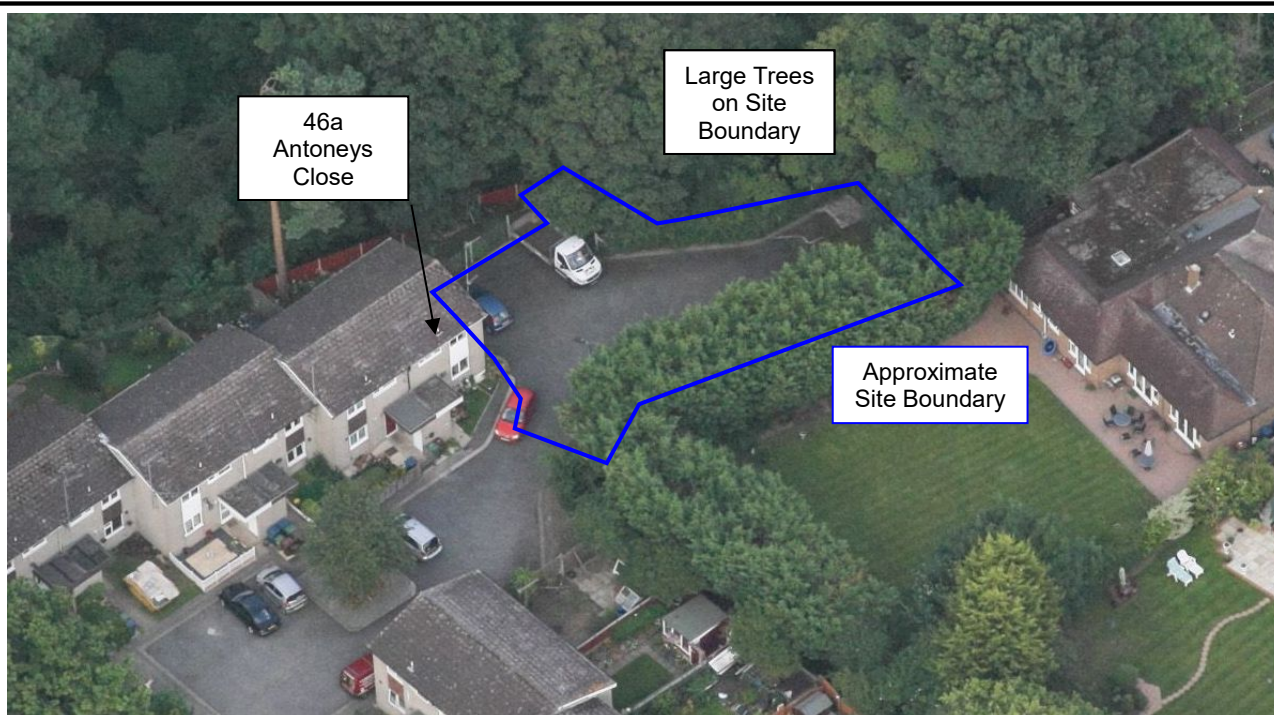
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Photograph Two: Image of the site from August 2018



Photograph Three: Image of the site from early 2020

Note: Images obtained from Google Streetview and/or Bing on-line mapping.

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## 4 Preliminary Risk Assessment

### 4.1 Conceptual Site Model

We have used the information presented in the previous sections of this report to create an outline Conceptual Site Model for the site. We have reviewed potential contaminants and their receptors together with any possible pathways that may link them. The resulting pollutant linkages are summarised below.

Contaminant	Pathway	Receptor	Viable Pollutant Linkage
Our historic review indicates the site was unused prior to its first use as car parking at the end of Antoneys Close since the late 1950's.  We have not identified a viable source of potential contaminants associated with the site.	Ingestion and dermal contact	Future residents	No-No viable source of contaminants identified.
	Permeation of volatile contaminants into drinking water supply service pipes		No-No viable source of contaminants identified.
	Volatilisation of hydrocarbons to indoor/outdoor air (either direct from soils or dissolved in groundwater)		No-No viable source of contaminants identified.
	Off-site migration of hydrocarbons: volatilisation to indoor/outdoor air (vapours from on-site soils or via lateral migration of dissolved compounds)	Neighbouring residential properties (<5m to the north west and west)	No-No viable source of contaminants identified.
	Downward migration of contaminants to groundwater	Lambeth Group (Secondary Class A Aquifer)	No-No viable source of contaminants identified.
	Off-site migration of contaminants dissolved in groundwater leading to direct impact of environmental receptors	Unnamed Stream (250m East)	No-No viable source of contaminants identified.
		No surface water or groundwater abstractions within 1km of the site	No-No viable receptor or source of contaminants identified.

**Table Thirteen: Conceptual Site Model**

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## 5 Conclusions and Recommendations

### 5.1 Environmental Conclusions

Site Details	<p>The site is located at the end of Antoneys Close in Harrow and comprises a parking area owned by London Borough of Harrow. We understand that London Borough of Harrow proposes to sell the site as part of the Greater London Authority small sites programme, which is a programme where small publicly-owned sites are brought forward for future redevelopment in the private sector.</p> <p>At this stage we are not aware of the detailed scope of the proposed future redevelopment, although we understand the site will most likely be developed for residential end use.</p>
Review of Environmental Site Sensitivity	<p>The site is located in an area of low to moderate environmental sensitivity.</p> <p>Geology maps indicate underlying geology comprises Lambeth Group, comprised of clay, silt and sand. The Environment Agency classify this geological unit as a Secondary Aquifer. A nearby borehole record identified firm to stiff grey brown clay (Lambeth Group) to the maximum borehole depth of 10.0m and no groundwater was present.</p> <p>The nearest surface water feature is an unnamed stream located 250m to the east. There are no surface water or groundwater abstractions within 1km of the site.</p>
Review of Site History and Potential Contaminant Sources	<p>Our historic review indicates the site was unused prior to its first use as car parking at the end of Antoneys Close since the late 1950's.</p>
Conclusions	<p>Based on the results of our desk-top review, we have not identified any likely source of contamination or potentially contaminative activities at the site. We consider the site suitable for future residential use. We do not consider any environmental investigation and/or risk assessment is required as part of the proposed development scheme at this time.</p>

**Table Fourteen: Environmental Conclusions**

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### 5.2 Geotechnical Considerations

Anticipated Geology and Hydrogeology	<p>Geology maps indicate underlying geology comprises Lambeth Group, comprised of clay, silt and sand. The Environment Agency classify this geological unit as a Secondary Aquifer. A nearby borehole record identified firm to stiff grey brown clay to the maximum borehole depth of 10.0m and no groundwater was present.</p> <p>An intrusive geotechnical investigation would be required to confirm the nature of the geology beneath the site, and allow an assessment of the soil strength profile and engineering properties, to assist with the design of appropriate foundations and highlight potential development constraints.</p>
High Plasticity Soils	<p>The site's location has been classified as 'Moderate Hazard' for risks associated with shrinking or swelling clays. We consider this classification is associated with the underlying Lambeth Group, which are likely to be predominantly high plasticity soils at the site locality.</p> <p>The BGS advise developers should not plant or remove trees or shrubs near to buildings without expert advice about their effect and management. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a possible increase in construction cost to reduce potential shrink-swell problems.</p>
Trees	<p>The photographs taken of the site, presented earlier in this report, show trees along the north and northern eastern site boundary. Given the soils beneath the site are likely to be of high plasticity, the presence of the trees are likely to impact on the design of foundations for the development. Minimum foundation depths will need to be calculated in accordance with NHBC methodology; this will require the scope of future geotechnical investigation to include collection of soil plasticity data.</p>
Use of Soakaways	<p>Based on local borehole records, the Lambeth Group soils in the vicinity of the site are likely to comprise cohesive soils of low permeability. In this instance, the use of soakaways is unlikely to be suitable to receive surface water run-off from the site buildings.</p>
Areas of Made Ground and/or Soft Ground	<p>Although we do not anticipate encountering a significant thickness of Made Ground and/or soft regions of clay, should they be encountered we recommend they be replaced with suitably compacted inert granular fill material in the vicinity of proposed foundations to ensure a suitable bearing capacity for its intended purpose.</p>
Temporary Support Measures	<p>Based on our geological review, shallow excavations for foundation installations are likely to be formed within clay which is likely to remain stable for short periods without support or being battered back. An assessment of side wall stability will need to be undertaken on site, once ground conditions have been established.</p>
Waste Classification	<p>Soil excavated from the site from excavations for foundation installations are likely to be classified as inert for waste disposal purposes, although confirmatory analysis may be required by the receiving landfill. Any soil excavated from the site requiring disposal should only be sent to an appropriately licensed waste management/disposal facility using an appropriately licensed waste carrier.</p>

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UXO	The site is classified by Zetica interactive mapping as being located in an area of Greater London with low to moderate bombing density. We understand that our client has commissioned a third-party a preliminary UXO risk assessment for the site.
Presence of Unrecorded Buried Obstructions	Our historic review has not identified any previous structures that have been present at the site.
Excavations and Ground Water	<p>The Lambeth Group is classified as a Secondary Aquifer, indicating there is likely to be permeable layers capable of supporting water supplies at a local level. Nearby borehole records indicate the Lambeth Group is locally present as clay to at least 10m depth. This indicates de-watering of shallow excavations is unlikely to be required, however site data by way of trial pit or borehole investigation would be required to verify this.</p> <p>Please note, however, following periods of heavy rain, surface water may pond in open excavations and appropriate allowance should be made for this.</p>
Services	A below ground utility survey should be completed as part of pre-enabling works, to assist with determining how buried utilities may impact upon the proposed redevelopment.
Geotechnical Categorisation	<p>Eurocode 7 introduced a system of three geotechnical categories (Geotechnical Category One, Two, Three) as described below.</p> <p>Geotechnical Category One: Defined as a category that should only include small and relatively simple structures for which it is possible to ensure that the fundamental requirements will be satisfied on the basis of experience and qualitative geotechnical investigations with negligible risk.</p> <p>Geotechnical Category Two: Defined as a category that relates to conventional types of structures and foundations with no exceptional risk or difficult soil or loading conditions. The fundamental requirements are satisfied using quantitative geotechnical data and analysis by a qualified person with appropriate geotechnical experience and knowledge.</p> <p>Geotechnical Category Three: Defined as a category that contains structures that can be very large and unusual, exceptionally or unusually difficult structures or ground conditions in highly seismic area. The design of structures of this category requires an experienced geotechnical specialist like a geotechnical engineer. Some examples of this category are very large buildings, large bridges, tunnels in highly or soft permeable ground, embankments on soft ground and deep excavations.</p> <p>We have not been provided sufficient information about the scope of the proposed redevelopment in order to fully define its geotechnical category, however we consider it likely to the development will be defined as either Category One or Two.</p> <p>The geotechnical category should be reassessed throughout the design progresses.</p>

**Table Fifteen: Geotechnical Considerations**

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### 5.3 Recommendations

We make the following recommendations relating to the proposed development:

Geotechnical investigation	<p>We have identified several geotechnical risk factors and uncertainties associated with the site. We therefore recommend that a geotechnical site investigation is completed in order to provide information regarding soil properties and ground conditions.</p> <p>As part of the geotechnical investigation, we recommend limited environmental testing of soils and groundwater be completed to confirm that no contamination is present under the site and assist in any waste disposal of soils excavated during foundation construction.</p> <p>Additionally, we could undertake some preliminary permeability testing to verify infiltration rates of shallow soils to confirm if the use of soakaways are suitable for the site.</p>
Establishing of Tree Species	<p>We recommend that the species of any trees present at or near to the site be established, and geotechnical laboratory testing of shallow soils be completed, and specialist advice sought to confirm how/if the trees will influenced foundation design.</p>
Pollution Watching Brief	<p>As with any site, we recommend that a watching brief be maintained by the contractors carrying out demolition and construction activities. If any areas of contamination (or suspected contamination) are observed, we recommend that we should be contacted to complete verification of the underlying soils to ensure no potential risks could be posed to future site users.</p>
Regulator Consultation	<p>We recommend that this report is forwarded to the relevant statutory consultees including the Environment Agency and Local Authority to seek their comments and subsequent approval.</p>

Your attention is drawn to the Notice to Interested Parties included as Attachment One.

**Table Sixteen: Recommendations**

Client: London Borough of Harrow	Phase One Geo-Environmental Desk Study Report	Report	LA20006 CL 001
		Date	March 2020
		Page	17

**Antoneys Close, Harrow**

**SUBADRA**

Environmental - Geotechnical - Laboratory - Foundations

13 Triangle Business Park, Wendover Road  
Stoke Mandeville, Bucks HP22 5BL

Tel. 01296 739400 Email: consultants@subadra.com

**ATTACHMENT ONE:  
NOTICE TO INTERESTED PARTIES**

Client: London Borough of Harrow

Report	LA20006 CL 001
Date	May 2020
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## NOTICE TO INTERESTED PARTIES

The purpose of our work is to provide general information on the environmental and/or geotechnical conditions existing at the site and related to soil and/or groundwater. The Client or others specified the scope of the investigation and the validity of our conclusions is limited by the scope of work specified. We are not responsible for any such limitations or omissions.

Where stated in this report, we have used information supplied by third parties. While we have evaluated as far as possible the validity of this information, we cannot guarantee its accuracy in any way whatsoever.

No investigation technique is capable of completely identifying all of the contaminants that might be present in the soil or groundwater under a site. Where specified in our report, we have examined the ground by constructing a number of boreholes and/or trial pits. We recovered samples of soil and/or groundwater from available exposures.

The depth and spacing of our Sampling locations were selected to ensure with a reasonable probability that they would be representative of the actual conditions across the whole site. However, safety considerations relating to existing site infrastructure may have restricted our ability to investigate all potential contaminant sources. Specifically, we were unable to investigate the soil and groundwater condition immediately adjacent to the underground structures and/or buried services. These limitations must be borne in mind when considering the conclusions reached in this report.

Soil is intrinsically variable and the spread of contaminants within the soil is therefore subject to a degree of non-uniformity. For these reasons no sampling technique can completely eliminate the possibility of obtaining samples that are not representative of the actual conditions. Our sampling techniques are intended to reduce the possibility to an acceptable level, within the limits imposed by the scope of the investigation.

Groundwater levels and soil vapour levels that we report were accurate at the time of the investigation. Groundwater and soil vapour levels are variable. Long term monitoring may be required to ensure that the levels recorded during our investigation are representative of long term and possible 'worst case' conditions. In accepting our recommendations and/or conclusions the Client acknowledges that further, more detailed investigation would allow a more accurate assessment of site conditions to be made and that this would reduce any consequential risk to the Client.

Our investigation was carried out to assess the significance of contamination resulting from use of the site as identified in this report. Unless we have indicated otherwise, no assessment of the potential impact of any other previous uses has been made. No investigation was carried out to determine whether or not any deleterious or hazardous materials (such as asbestos) have been used in the construction of the buildings present on the site. Unless otherwise stated no investigation or assessment has been made of the presence or otherwise of invasive plant species including but not limited to Japanese Knotweed.

Unless specifically stated otherwise, we have not assessed the effect of any proposed future construction activities on existing structures on or near to the site. Nor, unless stated otherwise, have we assessed the likely effect of trees on existing or proposed structures on or near the site.

We do not accept any responsibility for the cost of remedial works or other costs incurred in whatever way whatsoever as a result of any omissions, errors or other shortcomings in this report unless we have been given reasonable opportunity to verify ourselves that such faults exist and we have been given a reasonable opportunity to carry out works to remedy such faults ourselves using the most practicable means available to us. We do not accept liability for any consequential losses incurred by you while either we or others carry out any remedial works we deem necessary.

This report has been prepared for the Client, as specified on the cover page of this report. In accepting our recommendations and/or conclusions the Client accepts that the terms of our appointment were as detailed in the Proposal, or Proposals, that we provided to the Client before being appointed and that these terms supersede any other terms and/or conditions set out in any contracts agreed between ourselves and the Client, regardless of when such terms and/or conditions were agreed to by us and/or signed by us.

Use of, and reliance on, this report by other third parties will be at such third parties own risk, and we do not accept any liability or responsibility to them.

Neither the whole nor any part of this report, or any reference to it, may be included in any published document circular or statement or published in any way without our prior written approval.

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Client: London Borough of Harrow

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**Antoneys Close, Harrow**

**SUBADRA**

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**ATTACHMENT TWO:  
ENVIRONMENTAL DATA REPORT AND HISTORICAL MAPS**

Client: London Borough of Harrow

Report	LA20006 CL 001
Date	May 2020
Page	Attachment Two - 1

## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

238804813\_1\_1

**Customer Reference:**

LA20006

**National Grid Reference:**

511680, 190180

**Slice:**

A

**Site Area (Ha):**

0.06

**Search Buffer (m):**

1000

#### Site Details:

46, Antoneys Close

PINNER

HA5 3LP

#### Client Details:

Mr S Partridge

Subadra Consulting Ltd

Unit 13 Triangle Business Park

Wendover

Bucks

HP22 5BL

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Waste	13
Hazardous Substances	-
Geological	14
Industrial Land Use	20
Sensitive Land Use	29
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Useful Contacts	37

### Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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### Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Agency &amp; Hydrological</b>					
BGS Groundwater Flooding Susceptibility					n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		2		3
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 2			2	2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 2			Yes	
Pollution Incidents to Controlled Waters	pg 3		2	2	11
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 5			1	
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 5	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 5	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones	pg 6			1	1
Extreme Flooding from Rivers or Sea without Defences	pg 6		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 6		Yes	n/a	n/a
Areas Benefiting from Flood Defences	pg 6		Yes	n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 6			8	48

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Waste</b>					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 13				1
Local Authority Landfill Coverage	pg 13	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
<b>Hazardous Substances</b>					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
<b>Geological</b>					
BGS 1:625,000 Solid Geology	pg 14	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 14		1	5	5
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability	pg 16	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 16		1	4	5
Natural Cavities	pg 17			1	1
Non Coal Mining Areas of Great Britain	pg 18	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 18	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 18	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 18	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 18	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Industrial Land Use</b>					
Contemporary Trade Directory Entries	pg 20		1	29	65
Fuel Station Entries	pg 28			1	
Gas Pipelines					
Underground Electrical Cables					
<b>Sensitive Land Use</b>					
Ancient Woodland	pg 29				1
Areas of Adopted Green Belt	pg 29				2
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 29	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<b>Discharge Consents</b> Operator: Trustees For The Time Being Of The Grail Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Ty Mair, The Grail Centre, 125 Waxwell Lane, Pinner, Middlesex Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CATM.2395 Permit Version: 1 Effective Date: 6th August 1996 Issued Date: 6th August 1996 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Onto Land Environment: Receiving Water: London Clay <b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b> Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	119	2	511750 190300
1	<b>Discharge Consents</b> Operator: The Grail Centre Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Mobile Home On Land North West Of The Grail, Waxwell Lane, Pinner Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTCU.1668 Permit Version: 1 Effective Date: 9th April 1984 Issued Date: 9th April 1984 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Reading Bedsstrata <b>Status: Transferred from Water Resources Act 1963</b> Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	150	2	511800 190300
2	<b>Discharge Consents</b> Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Cuckoo Hill Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0802 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 19th August 2014 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Hoodridings Stream <b>Status: Surrendered under EPR 2010</b> Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	532	2	511300 189800
2	<b>Discharge Consents</b> Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Cuckoo Hill Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0802 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 2nd September 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Hoodridings Stream <b>Status: Temporary Consents (Water Act 1989, Section 113)</b> Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	532	2	511300 189800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<b>Discharge Consents</b> Operator: The Grail Centre Property Type: Undefined Or Other Location: 125 Waxwell Lane, Pinner, Middlesex Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CNTW.0010 Permit Version: 1 Effective Date: 2nd October 1989 Issued Date: 2nd October 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Onto Land Environment: Receiving Water: Reading Beds <b>Status:</b> Transferred from Water Act 1989 Positional Accuracy: Located by supplier to within 100m	A18SE (N)	652	2	511710 190850
4	<b>Prosecutions Relating to Controlled Waters</b> Location: Woodridings Stream, Waxwell Lane, Pinner, Ha5 Prosecution Text: Building up a riverbank, contrary to local byelaws Prosecution Act: Trldr 81 Hearing Date: 4th December 2006 Verdict: Guilty Fine: 1000 Cost: 1213 Positional Accuracy: Manually positioned to the road within the address or location	A13NE (E)	208	2	511902 190208
5	<b>Local Authority Pollution Prevention and Controls</b> Name: Shell Pinner (269) Location: 21 Pinner Green, PINNER, Middlesex, HA5 2AF Authority: London Borough of Harrow, Environmental Health Services Permit Reference: EPA/AUTH/31 Dated: 19th April 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station <b>Status:</b> Authorised Positional Accuracy: Automatically positioned to the address	A12SE (SW)	380	3	511344 189991
6	<b>Local Authority Pollution Prevention and Controls</b> Name: Shic Dry Cleaners Location: 89 Bridge St, Pinner, Middlesex, HA5 3HZ Authority: London Borough of Harrow, Environmental Health Services Permit Reference: EPA/PPC/Permit/75 Dated: 11th October 2007 Process Type: Local Authority Air Pollution Control Description: PG6/46 Dry cleaning <b>Status:</b> Permitted Positional Accuracy: Manually positioned to the address or location	A8NE (SE)	480	3	511931 189753
7	<b>Local Authority Pollution Prevention and Controls</b> Name: Lilly Whites Dry Cleaners Location: 22a Bridge Street, Pinner, Middlesex, HA5 3JF Authority: London Borough of Harrow, Environmental Health Services Permit Reference: EPA/PPC/Permit/61 Dated: 24th July 2007 Process Type: Local Authority Air Pollution Control Description: PG6/46 Dry cleaning <b>Status:</b> Permitted Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	630	3	512088 189681
8	<b>Local Authority Pollution Prevention and Controls</b> Name: Star Dry Cleaners Location: 179 Marsh Road, PINNER, Middlesex, HA5 5PB Authority: London Borough of Harrow, Environmental Health Services Permit Reference: EPA/PPC/Permit/79 Dated: 28th November 2007 Process Type: Local Authority Air Pollution Control Description: PG6/46 Dry cleaning <b>Status:</b> Permitted Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	963	3	512192 189347
	<b>Nearest Surface Water Feature</b>	A13SW (SW)	253	-	511537 189961

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Elm Park Road, PINNER Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 11th June 1989 Incident Reference: N1890310 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	185	2	511601 190001
10	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Chalfont Walk, PINNER Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 13th July 1996 Incident Reference: N1960367 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	203	2	511500 190300
11	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Montasole Playing Field, PINNER Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Not Supplied Incident Date: 3rd September 1997 Incident Reference: THN11997029345 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	446	2	511350 190500
12	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Jubilee Close, PINNER Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Not Supplied Incident Date: 10th September 1997 Incident Reference: THN11997029478 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	482	2	511200 190300
13	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Paines Lane, PINNER Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 22nd January 1996 Incident Reference: N1960030 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	506	2	512010 190590
13	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Woodhall Avenue, PINNER Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Other Note: Not Supplied Incident Date: 9th November 1996 Incident Reference: N1960578 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	539	2	512050 190600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: PINNER Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 30th March 1993 Incident Reference: N1930120 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	648	2	512100 190700
15	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: PINNER Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 1st August 1994 Incident Reference: N1940281 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	692	2	512200 189700
16	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Chapel Lane, PINNER Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 20th February 1992 Incident Reference: N1920098 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	701	2	512100 189600
17	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: HATCH END Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Not Supplied Incident Date: 25th September 1998 Incident Reference: THNE1998040680 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	715	2	512200 190700
18	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Waxwell Road, HATCH END Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 27th May 1997 Incident Reference: THN11997032539 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	729	2	512100 190800
19	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: PINNER Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 11th July 1997 Incident Reference: THN11997032633 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	764	2	512200 189600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: HATCH END Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Not Supplied Incident Date: 9th July 1998 Incident Reference: THNE1998039541 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	822	2	512250 190800
21	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Nugents Park, HATCH END Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 10th January 1997 Incident Reference: THN11997030895 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	930	2	512400 190800
22	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Tolcarne Drive Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 20th February 1989 Incident Reference: N1890084 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	993	2	511200 189300
	<b>River Quality</b> Name: Pinn GQA Grade: River Quality B Reach: Harrow Weald - Cannon Bk Estimated Distance (km): 10.4 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A14SW (SE)	453	2	512082 189940
	<b>Groundwater Vulnerability Map</b> Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: 40-70% Superficial: <90% Patchiness: Superficial <3m Thickness: Superficial No Data Recharge:	A13NE (E)	0	4	511684 190183
	<b>Groundwater Vulnerability - Soluble Rock Risk</b> None				
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A13NE (E)	0	4	511684 190183
	<b>Superficial Aquifer Designations</b> No Data Available				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	<b>Source Protection Zones</b> Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A12NE (W)	393	2	511282 190251
24	<b>Source Protection Zones</b> Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A12NW (W)	956	2	510714 190214
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13NE (E)	201	2	511896 190196
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A13SE (E)	209	2	511904 190166
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (E)	217	2	511908 190132
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SE (E)	219	2	511910 190130
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (E)	216	2	511910 190200
	<b>Areas Benefiting from Flood Defences</b> Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	A13NE (E)	222	2	511918 190183
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				
25	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 31.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SW (SW)	257	5	511532 189959
26	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 640.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NE (E)	283	5	511979 190191
27	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 99.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NE (W)	365	5	511318 190289



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 150.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (NW)	371	5	511364 190399
29	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (SE)	386	5	512053 190028
30	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 89.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (SE)	388	5	512054 190027
31	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 6.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NE (NW)	431	5	511282 190379
32	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 88.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (SE)	469	5	512111 189958
33	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 142.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14SW (SE)	544	5	512182 189933
34	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Underground Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14SW (SE)	544	5	512182 189932
35	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 16.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14SW (SE)	546	5	512182 189928
36	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 662.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	548	5	512033 190626

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 47.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	549	5	512037 190624
38	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 1.2 Watercourse Level: Underground Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14SW (SE)	557	5	512185 189911
39	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: Underground Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14SW (SE)	557	5	512186 189910
40	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 30.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14SW (SE)	559	5	512187 189908
41	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 79.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14SW (E)	578	5	512257 190039
42	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 70.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14SW (SE)	585	5	512202 189883
43	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 21.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	596	5	512066 190661
44	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 140.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	618	5	512084 190674
45	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 194.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A9NW (SE)	641	5	512228 189818

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 159.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14SW (E)	645	5	512332 190067
47	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 125.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A9NW (SE)	715	5	512181 189649
48	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 14.7 Watercourse Level: Underground Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A9NW (SE)	715	5	512182 189649
49	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 15.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A9NW (SE)	717	5	512193 189658
50	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A9NW (SE)	719	5	512206 189667
51	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	730	5	512202 190718
52	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 34.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	732	5	512205 190719
53	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 1.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	763	5	512238 190730
54	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 180.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	764	5	512238 190731

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14SE (E)	775	5	512469 190115
56	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 36.1 Watercourse Level: Underground Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A9NW (SE)	778	5	512149 189540
57	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 128.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14SE (E)	779	5	512472 190114
58	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 22.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A9SW (SE)	806	5	512145 189504
59	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A9SW (SE)	819	5	512138 189483
60	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 17.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A9SW (SE)	820	5	512138 189482
61	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 226.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A9SW (SE)	834	5	512136 189464
62	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14SE (E)	877	5	512573 190181
63	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 37.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14NE (E)	880	5	512576 190184



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14NE (E)	897	5	512591 190229
65	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 48.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14NE (E)	897	5	512591 190229
66	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14NE (E)	899	5	512594 190217
67	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 15.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	933	5	512629 190150
68	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 42.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SE (NE)	937	5	512374 190840
69	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 76.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SE (NE)	937	5	512374 190839
70	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 34.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NE (E)	939	5	512631 190257
71	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 152.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A14NE (E)	939	5	512631 190257
72	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 22.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	945	5	512640 190160

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 16.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NE (E)	951	5	512646 190224
74	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 36.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NE (E)	953	5	512648 190211
75	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 7.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	962	5	512658 190174
76	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 28.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	968	5	512664 190179
77	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 77.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17NE (NW)	973	5	511130 190998
78	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 21.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	982	5	511603 191177
79	<b>OS Water Network Lines</b> Watercourse Form: Inland river Watercourse Length: 24.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	988	5	511582 191181
80	<b>OS Water Network Lines</b> Watercourse Form: Lake Watercourse Length: 61.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	990	5	512686 190161

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 105382 Location: Not Supplied Operator Name: Arrcam Ltd Operator Location: Not Supplied Authority: Environment Agency - South East Region, Kent & South London Area Site Category: Mobile Plant <b>Licence Status: Modified</b> Issued: 4th February 2013 Last Modified: 8th August 2014 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	836	2	512322 189621
	<b>Local Authority Landfill Coverage</b> Name: London Borough of Harrow - Has supplied landfill data		0	3	511684 190183
	<b>Local Authority Landfill Coverage</b> Name: London Borough of Hillingdon - Has not been able to supply Landfill data		652	6	511084 189901

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: Lambeth Group	A13NE (E)	0	1	511684 190183
82	<b>BGS Recorded Mineral Sites</b> Site Name: Pinner Chalk Mine Location: Pinner, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 220283 Type: Underground <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	205	1	511590 190380
83	<b>BGS Recorded Mineral Sites</b> Site Name: Uxbridge Road Chalk Mine Location: Pinner, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 220870 Type: Underground <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: Seaford Chalk Formation Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A13NE (N)	258	1	511733 190452
84	<b>BGS Recorded Mineral Sites</b> Site Name: Pinner Sand Pits Location: Pinner, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 106117 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A18SW (N)	335	1	511601 190523
85	<b>BGS Recorded Mineral Sites</b> Site Name: Pinner Chalk Mines Location: Pinner, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 11452 Type: Underground <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup (Upper Chalk) Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A18SW (N)	364	1	511552 190538
85	<b>BGS Recorded Mineral Sites</b> Site Name: Pinner Chalk Mines Location: Pinner, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 202559 Type: Underground <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A18SW (N)	384	1	511587 190570



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	<b>BGS Recorded Mineral Sites</b> Site Name: Pinner Chalk Mines Location: Pinner, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 202560 Type: Underground <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A18SW (N)	434	1	511598 190624
87	<b>BGS Recorded Mineral Sites</b> Site Name: Pinner Hill Road Chalk Mine Location: Pinner, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 202561 Type: Underground <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	772	1	511219 190815
88	<b>BGS Recorded Mineral Sites</b> Site Name: Pinner Chalk Mines Location: Pinner, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 106118 Type: Underground <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	838	1	511062 190765
88	<b>BGS Recorded Mineral Sites</b> Site Name: Pinner Hill Road Chalk Mine Location: Pinner Green, Pinner, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 220876 Type: Underground <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	848	1	511060 190778
88	<b>BGS Recorded Mineral Sites</b> Site Name: Pinner Hill Farm Chalk Mine Location: Pinner, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 220879 Type: Underground <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	874	1	511013 190765
89	<b>BGS Recorded Mineral Sites</b> Site Name: Pinner Chalk Mine Location: Pinner, Middlesex Source: British Geological Survey, National Geoscience Information Service Reference: 220281 Type: Underground <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	889	1	511069 190844

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Coal Mining Affected Areas</b> In an area that might not be affected by coal mining				
	<b>Mining Instability</b> Mining Evidence: Conclusive Rock Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (E)	0	-	511684 190183
	<b>Man-Made Mining Cavities</b> Easting: 511600 Northing: 190400 Distance: 218 Quadrant Reference: A13 Quadrant Reference: NW Bearing Ref: N Cavity Type: Shaft Entry Pillar and Stall Chalk Mine-Mined Ground Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A13NW (N)	218	7	511600 190400
	<b>Man-Made Mining Cavities</b> Easting: 511700 Northing: 190500 Distance: 302 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: Reference to Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A13NE (N)	302	7	511700 190500
	<b>Man-Made Mining Cavities</b> Easting: 511500 Northing: 190500 Distance: 353 Quadrant Reference: A13 Quadrant Reference: NW Bearing Ref: NW Cavity Type: Shaft Entry Pillar and Stall Chalk Mine-Mined Ground Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A13NW (NW)	353	7	511500 190500
	<b>Man-Made Mining Cavities</b> Easting: 511600 Northing: 190600 Distance: 410 Quadrant Reference: A18 Quadrant Reference: SW Bearing Ref: N Cavity Type: Shaft Entry Pillar and Stall Chalk Mine-Extent Unknown Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A18SW (N)	410	7	511600 190600
	<b>Man-Made Mining Cavities</b> Easting: 511400 Northing: 190600 Distance: 492 Quadrant Reference: A18 Quadrant Reference: SW Bearing Ref: NW Cavity Type: Shaft Entry Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A18SW (NW)	492	7	511400 190600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Man-Made Mining Cavities</b> Easting: 511700 Northing: 190700 Distance: 502 Quadrant Reference: A18 Quadrant Reference: SE Bearing Ref: N Cavity Type: Shaft Entry Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A18SE (N)	502	7	511700 190700
	<b>Man-Made Mining Cavities</b> Easting: 511220 Northing: 190600 Distance: 610 Quadrant Reference: A17 Quadrant Reference: SE Bearing Ref: NW Cavity Type: Shaft Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Chalk Group Superficial Geology No Details Detail:	A17SE (NW)	610	7	511220 190600
	<b>Man-Made Mining Cavities</b> Easting: 511190 Northing: 190570 Distance: 613 Quadrant Reference: A17 Quadrant Reference: SE Bearing Ref: NW Cavity Type: Pillar And Stall Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Chalk Group Superficial Geology No Details Detail:	A17SE (NW)	613	7	511190 190570
	<b>Man-Made Mining Cavities</b> Easting: 511100 Northing: 190800 Distance: 836 Quadrant Reference: A17 Quadrant Reference: SE Bearing Ref: NW Cavity Type: Shaft Entry Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A17SE (NW)	836	7	511100 190800
	<b>Man-Made Mining Cavities</b> Easting: 511000 Northing: 190800 Distance: 907 Quadrant Reference: A17 Quadrant Reference: SW Bearing Ref: NW Cavity Type: Shaft Entry Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A17SW (NW)	907	7	511000 190800
	<b>Natural Cavities</b> Easting: 511500 Northing: 190500 Distance: 353 Quadrant Reference: A13 Quadrant Reference: NW Bearing Ref: NW Cavity Type: Solution Pipe x 4 Solid Geology Detail: Chalk Group, Lambeth Group, London Clay Formation Superficial Geology Worked Ground Detail:	A13NW (NW)	353	7	511500 190500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Natural Cavities</b> Easting: 511220 Northing: 190630 Distance: 630 Quadrant Reference: A17 Quadrant Reference: SE Bearing Ref: NW Cavity Type: Vadose Cave Solid Geology Detail: Chalk Group, Lambeth Group, London Clay Formation Superficial Geology: No Details Detail:	A17SE (NW)	630	7	511220 190630
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	511684 190183
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	105	1	511633 190290
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	155	1	511612 190336
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	166	1	511684 190000
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	209	1	511726 190403
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	511684 190183
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	166	1	511684 190000
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	511684 190183
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	166	1	511684 190000
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	511684 190183
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	166	1	511684 190000
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	511684 190183
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	166	1	511684 190000
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	511684 190183
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	166	1	511684 190000
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	511684 190183
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	166	1	511684 190000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	511684 190183
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	511684 190183

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	<b>Contemporary Trade Directory Entries</b> Name: Flawless Relieve Location: 6, Antoneys Close, Pinner, Middlesex, HA5 3LP Classification: Commercial Cleaning Services <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A13NW (W)	118	-	511552 190183
91	<b>Contemporary Trade Directory Entries</b> Name: West End Lane Motors Location: West End Lane, Pinner, Middlesex, HA5 3NQ Classification: Garage Services <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A13SW (SW)	252	-	511571 189941
92	<b>Contemporary Trade Directory Entries</b> Name: The Print Shop Location: 4, Pinner Green, Pinner, Middlesex, HA5 2AA Classification: Printers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A13SW (W)	310	-	511370 190108
93	<b>Contemporary Trade Directory Entries</b> Name: Maid 2 Clean Location: Flat 77/A, Elm Park Court, Elm Park Road, Pinner, Middlesex, HA5 3LL Classification: Cleaning Services - Domestic <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A13SW (SW)	312	-	511504 189912
94	<b>Contemporary Trade Directory Entries</b> Name: Dare Us Cleaners Location: 5, Pinner Green, Pinner, Middlesex, HA5 2AF Classification: Cleaning Services - Domestic <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A13SW (SW)	324	-	511381 190041
94	<b>Contemporary Trade Directory Entries</b> Name: Rigbys Location: 7, Pinner Green, Pinner, Middlesex, HA5 2AF Classification: Fireplaces & Mantelpieces <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A13SW (SW)	329	-	511378 190036
95	<b>Contemporary Trade Directory Entries</b> Name: Shell Pinner Location: Service Station, 21, Pinner Green, Pinner, HA5 2AF Classification: Petrol Filling Stations <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SE (SW)	380	-	511344 189991
95	<b>Contemporary Trade Directory Entries</b> Name: Shell Service Station Location: Service Station, 21, Pinner Green, Pinner, HA5 2AF Classification: Petrol Filling Stations <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SE (SW)	380	-	511344 189991
95	<b>Contemporary Trade Directory Entries</b> Name: Shell UK Ltd Location: 21, Pinner Green, Pinner, Middlesex, HA5 2AF Classification: Petrol Filling Stations <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SE (SW)	380	-	511344 189991
95	<b>Contemporary Trade Directory Entries</b> Name: Shell Service Station Location: Service Station, 21, Pinner Green, Pinner, HA5 2AF Classification: Petrol Filling Stations <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A12SE (SW)	380	-	511344 189991
95	<b>Contemporary Trade Directory Entries</b> Name: Dare Us Cleaners Location: 5c Pinner Green, Pinner, Middlesex, HA5 2AF Classification: Cleaning Services - Domestic <b>Status: Inactive</b> Positional Accuracy: Manually positioned within the geographical locality	A12SE (SW)	381	-	511344 189991
96	<b>Contemporary Trade Directory Entries</b> Name: Foremost Supplies Location: 6, Elm Park Road, Pinner, Middlesex, HA5 3LA Classification: Cleaning Materials & Equipment <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A13SE (SE)	387	-	511907 189848

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	<b>Contemporary Trade Directory Entries</b> Name: K D Haulage Ltd Location: 91, Barrow Point Avenue, Pinner, Middlesex, HA5 3HE Classification: Road Haulage Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	403	-	512057 190367
98	<b>Contemporary Trade Directory Entries</b> Name: Thamesgas.Com Location: 542, Uxbridge Road, Pinner, Middlesex, HA5 3QA Classification: Boilers - Servicing, Replacements & Repairs <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	418	-	511874 190573
99	<b>Contemporary Trade Directory Entries</b> Name: Kaylex Location: 56, Pinner Green, Pinner, Middlesex, HA5 2AB Classification: Hardware <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	421	-	511282 190024
99	<b>Contemporary Trade Directory Entries</b> Name: Kaylex Electrical Location: 56, Pinner Green, Pinner, HA5 2AB Classification: Electrical Goods Sales, Manufacturers & Wholesalers <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	422	-	511281 190024
99	<b>Contemporary Trade Directory Entries</b> Name: Kaylex Electrical Location: 58-60, Pinner Green, Pinner, Middlesex, HA5 2AB Classification: Electrical Goods Sales, Manufacturers & Wholesalers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	429	-	511274 190023
99	<b>Contemporary Trade Directory Entries</b> Name: Pinner Green Mot & Service Centre Location: 74-76 Pinner Green, Rear Of Middlesex Cars, Pinner, Middlesex, HA5 2AB Classification: Mot Testing Centres <b>Status:</b> Active Positional Accuracy: Manually positioned within the geographical locality	A12SE (W)	433	-	511269 190024
99	<b>Contemporary Trade Directory Entries</b> Name: Middlesex Cars Location: 74a, Pinner Green, Pinner, HA5 2AB Classification: Car Dealers <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	461	-	511237 190029
99	<b>Contemporary Trade Directory Entries</b> Name: Pinner Green Auto Services Ltd Location: 74-76, Pinner Green, Pinner, Middlesex, HA5 2AB Classification: Garage Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	461	-	511237 190029
99	<b>Contemporary Trade Directory Entries</b> Name: Fisher Autos Location: 74-76, Pinner Green, Pinner, Middlesex, HA5 2AB Classification: Car Body Repairs <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	461	-	511237 190029
99	<b>Contemporary Trade Directory Entries</b> Name: Village Cars Location: 74-76, Pinner Green, Pinner, Middlesex, HA5 2AB Classification: Car Dealers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	461	-	511237 190029
99	<b>Contemporary Trade Directory Entries</b> Name: Parkside Carriages Ltd Location: 74-76, Pinner Green, Pinner, Middlesex, HA5 2AB Classification: Car Dealers - Used <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	461	-	511237 190029
99	<b>Contemporary Trade Directory Entries</b> Name: Drive Easy Location: 74-76, Pinner Green, Pinner, Middlesex, HA5 2AB Classification: Garage Services <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the address or location	A12SE (W)	461	-	511237 190029

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	<b>Contemporary Trade Directory Entries</b> Name: Premier Service Location: 74-76, Pinner Green, Pinner, HA5 2AB Classification: Garage Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	462	-	511236 190029
100	<b>Contemporary Trade Directory Entries</b> Name: Avatan Handling Equipment Location: 27, Blythwood Road, Pinner, Middlesex, HA5 3QD Classification: Mechanical Handling Engineers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	425	-	511694 190624
101	<b>Contemporary Trade Directory Entries</b> Name: Vectorgrange Location: 135, Hazeldene Drive, Pinner, Middlesex, HA5 3NR Classification: Cleaning Services - Domestic <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	447	-	511324 189902
102	<b>Contemporary Trade Directory Entries</b> Name: Shic Drycleaners Location: 89, Bridge Street, Pinner, Middlesex, HA5 3HZ Classification: Dry Cleaners <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	479	-	511929 189753
102	<b>Contemporary Trade Directory Entries</b> Name: Shic Location: 89, Bridge Street, Pinner, Middlesex, HA5 3HZ Classification: Dry Cleaners <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the address or location	A8NE (SE)	479	-	511929 189753
102	<b>Contemporary Trade Directory Entries</b> Name: Shic Dry Cleaners Location: 89, Bridge Street, Pinner, HA5 3HZ Classification: Dry Cleaners <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A8NE (SE)	480	-	511929 189752
103	<b>Contemporary Trade Directory Entries</b> Name: Jet Stream Location: 18, Oakhill Avenue, Pinner, Middlesex, HA5 3DN Classification: Blast Cleaning <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	503	-	512195 190244
104	<b>Contemporary Trade Directory Entries</b> Name: National Tyres And Autocare Location: 58, Bridge Street, Pinner, Middlesex, HA5 3JF Classification: Tyre Dealers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	509	-	511999 189765
104	<b>Contemporary Trade Directory Entries</b> Name: Tyre & Exhaust Centre Location: 58, Bridge Street, Pinner, Middlesex, HA5 3JF Classification: Tyre Dealers <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A8NE (SE)	509	-	511999 189765
104	<b>Contemporary Trade Directory Entries</b> Name: Wonder Wheels (Uk) Ltd Location: 60, Bridge Street, Pinner, Middlesex, HA5 3JF Classification: Car Accessories Manufacturers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	510	-	511988 189756
104	<b>Contemporary Trade Directory Entries</b> Name: Young Autos Ltd Location: 71 Bridge St, Pinner, Harrow, Middlesex, HA3 5HJ Classification: Car Body Repairs <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NE (SE)	511	-	511982 189749
104	<b>Contemporary Trade Directory Entries</b> Name: Metal Cross Vehicle Makeover Clinic Location: 56a, Bridge Street, Pinner, Middlesex, HA5 3JF Classification: Car Body Repairs <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	527	-	512008 189750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	<b>Contemporary Trade Directory Entries</b> Name: A N B Car Body Repairs Location: Bridge Street, Pinner, Middlesex, HA5 3HZ Classification: Car Body Repairs <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A8NE (SE)	547	-	511965 189696
105	<b>Contemporary Trade Directory Entries</b> Name: J & M Autos Location: 71, Bridge Street, Pinner, Middlesex, HA5 3HZ Classification: Car Body Repairs <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A8NE (SE)	547	-	511965 189696
105	<b>Contemporary Trade Directory Entries</b> Name: Data Spray Location: 71, Bridge Street, Pinner, Middlesex, HA5 3HZ Classification: Car Body Repairs <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A8NE (SE)	547	-	511965 189696
105	<b>Contemporary Trade Directory Entries</b> Name: Cryogatt Systems Location: M S Business Centre, 22, Chapel Lane, Pinner, Middlesex, HA5 1AZ Classification: Laboratory Equipment, Instruments & Supplies <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A8NE (SE)	593	-	511984 189653
105	<b>Contemporary Trade Directory Entries</b> Name: Sterling Connection (Uk) Location: M S Business Centre, 22, Chapel Lane, Pinner, Middlesex, HA5 1AZ Classification: Jewellery Manufacturers & Repairers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A8NE (SE)	593	-	511984 189653
106	<b>Contemporary Trade Directory Entries</b> Name: Dowell Enterprises (Uk) Ltd Location: 16-18, Love Lane, Pinner, Middlesex, HA5 3EF Classification: Gum & Resin Manufacturers & Distributors <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	574	-	512071 189739
107	<b>Contemporary Trade Directory Entries</b> Name: Mavic Ltd Location: 38, Latimer Gardens, Pinner, Middlesex, HA5 3RA Classification: Linen Manufacturers & Wholesalers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	575	-	511261 190592
108	<b>Contemporary Trade Directory Entries</b> Name: Vmc Fixing Location: 27, Rickmansworth Road, Pinner, Middlesex, HA5 3TE Classification: Window Frames - Sales & Service <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SE (W)	592	-	511090 190067
109	<b>Contemporary Trade Directory Entries</b> Name: Leaf It Out In Style Ltd Location: Unit 3b, M S Business Centre, 22, Chapel Lane, Pinner, HA5 1AZ Classification: Printers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A8NE (SE)	601	-	511990 189648
110	<b>Contemporary Trade Directory Entries</b> Name: Bemaco Trucking Ltd Location: Westbury House, 23-25, Bridge Street, Pinner, Middlesex, HA5 3HR Classification: Freight Forwarders <b>Status: Inactive</b> Positional Accuracy: Automatically positioned in the proximity of the address	A9NW (SE)	625	-	512054 189660
110	<b>Contemporary Trade Directory Entries</b> Name: Andrik Printers Location: 10-12, Love Lane, Pinner, HA5 3EF Classification: Printers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	628	-	512118 189710
110	<b>Contemporary Trade Directory Entries</b> Name: Andrik & Chorleywood Press Location: 10-12, Love Lane, Pinner, Middlesex, HA5 3EE Classification: Printers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	628	-	512118 189710



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	<b>Contemporary Trade Directory Entries</b> Name: Lillywhite Drycleaners Location: 22a, Bridge Street, Pinner, HA5 3JF Classification: Ironing & Home Laundry Services <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	629	-	512088 189682
110	<b>Contemporary Trade Directory Entries</b> Name: Ironing Service Location: 22a, Bridge Street, Pinner, Middlesex, HA5 3JF Classification: Ironing & Home Laundry Services <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	629	-	512088 189682
110	<b>Contemporary Trade Directory Entries</b> Name: Lillywhites Ironing Service Location: 22a, Bridge Street, Pinner, Middlesex, HA5 3JF Classification: Dry Cleaners <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	629	-	512088 189682
110	<b>Contemporary Trade Directory Entries</b> Name: Sketchley Retail Ltd Location: 31, Bridge Street, Pinner, Middlesex, HA5 3HR Classification: Dry Cleaners <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	639	-	512066 189652
110	<b>Contemporary Trade Directory Entries</b> Name: Metalin Location: 23, Bridge Street, Pinner, Middlesex, HA5 3HR Classification: Distribution Services <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	665	-	512086 189634
111	<b>Contemporary Trade Directory Entries</b> Name: Dalton & Ditcham Agencies Ltd Location: 14, Leighton Avenue, Pinner, Middlesex, HA5 3BW Classification: Glass Products - Manufacturers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	648	-	512245 189832
112	<b>Contemporary Trade Directory Entries</b> Name: Farrell Engineering Ltd Location: Westbury House, 23-25, Bridge Street, Pinner, Middlesex, HA5 3HR Classification: Die-Casting Equipment & Services <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	659	-	512075 189634
113	<b>Contemporary Trade Directory Entries</b> Name: A D B Location: 23, Abbey Close, Pinner, Middlesex, HA5 2AW Classification: Commercial Cleaning Services <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12SE (W)	699	-	511014 189946
114	<b>Contemporary Trade Directory Entries</b> Name: Supasnaps Location: 9, Bridge Street, Pinner, Middlesex, HA5 3HR Classification: Photographic Processors <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	706	-	512105 189597
114	<b>Contemporary Trade Directory Entries</b> Name: 1 Hour Photoplace Location: 10, Bridge Street, Pinner, Middlesex, HA5 3JE Classification: Photographic Processors <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	715	-	512146 189618
115	<b>Contemporary Trade Directory Entries</b> Name: European Catering Appliances Ltd Location: 90, Marsworth Avenue, Pinner, Middlesex, HA5 4TT Classification: Catering Equipment <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A18NW (N)	713	-	511638 190910
116	<b>Contemporary Trade Directory Entries</b> Name: Z Fudge Location: 42, Moss Lane, Pinner, Middlesex, HA5 3AX Classification: Electrolysis <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A14NE (E)	714	-	512402 190291

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	<b>Contemporary Trade Directory Entries</b> Name: Abbicci Ltd Location: 26, Albury Drive, Pinner, Middlesex, HA5 3RE Classification: Clothing & Fabrics - Manufacturers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	733	-	511241 190783
118	<b>Contemporary Trade Directory Entries</b> Name: Amyoil Location: 30, Greenway, PINNER, Middlesex, HA5 3SP Classification: Oil Companies <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12NW (W)	736	-	510985 190459
119	<b>Contemporary Trade Directory Entries</b> Name: JclK Ltd Location: Rear of 13a, Bishops Walk, Pinner, Middlesex, HA5 5QQ Classification: Cleaning Services - Domestic <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	752	-	512203 189619
119	<b>Contemporary Trade Directory Entries</b> Name: Emaire Fireplaces Location: 9a, High Street, Pinner, Middlesex, HA5 5PJ Classification: Fireplaces & Mantelpieces <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	763	-	512192 189594
119	<b>Contemporary Trade Directory Entries</b> Name: Regent Of Pinner Ltd Location: 1, Bishops Walk, Pinner, Middlesex, HA5 5QQ Classification: Furniture - Reproduction <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	765	-	512225 189622
119	<b>Contemporary Trade Directory Entries</b> Name: London Boys Scrap Yards In Pinner Location: Pinner House, 2, Barbers Walk, Pinner, Middlesex, HA5 5LU Classification: Car Breakers & Dismantlers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	795	-	512226 189582
120	<b>Contemporary Trade Directory Entries</b> Name: D W Digital Printer Location: 85, Albury Drive, Pinner, Middlesex, HA5 3RL Classification: Printers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A18NW (N)	776	-	511486 190948
121	<b>Contemporary Trade Directory Entries</b> Name: Hyperion Wall Furniture Location: 39, High Street, Pinner, Middlesex, HA5 5PJ Classification: Furniture Manufacturers - Home & Office <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	798	-	512294 189647
122	<b>Contemporary Trade Directory Entries</b> Name: C A Lines Ltd Location: 26, High Street, Pinner, Middlesex, HA5 5PW Classification: Wallpapers & Wall Coverings <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	806	-	512248 189588
122	<b>Contemporary Trade Directory Entries</b> Name: Lines Of Pinner Location: 26, High Street, Pinner, Middlesex, HA5 5PW Classification: Wallpapers & Wall Coverings <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	806	-	512248 189588
123	<b>Contemporary Trade Directory Entries</b> Name: Tara Inspirations Location: 59, High View, Pinner, Middlesex, HA5 3PE Classification: Greeting Card Publishers & Wholesalers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A7SE (SW)	831	-	511273 189445
124	<b>Contemporary Trade Directory Entries</b> Name: C B J International Ltd Location: 94, Evelyn Drive, Pinner, Middlesex, HA5 4RW Classification: Photographic Equipment & Supplies - Wholesale <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A18NW (N)	838	-	511676 191037

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
125	<b>Contemporary Trade Directory Entries</b> Name: Lehner-Morris Ltd Location: 64, Birchmead Avenue, Pinner, Middlesex, HA5 2BH Classification: Manufacturers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A8SW (S)	838	-	511370 189389
126	<b>Contemporary Trade Directory Entries</b> Name: Planning & Engineering Services Location: Annexe, Elthorne Gate, 64, High Street, Pinner, HA5 5QA Classification: Engineers - General <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NE (SE)	839	-	512366 189670
127	<b>Contemporary Trade Directory Entries</b> Name: Le Valet Location: 12, Station Approach, Pinner, HA5 5LZ Classification: Dry Cleaners <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	847	-	512224 189511
127	<b>Contemporary Trade Directory Entries</b> Name: Le Valet Location: 12, Station Approach, Pinner, Middlesex, HA5 5LZ Classification: Dry Cleaners <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A9NW (SE)	865	-	512266 189523
128	<b>Contemporary Trade Directory Entries</b> Name: Epic Image Ltd Location: 203, Tolcarne Drive, Pinner, Middlesex, HA5 2DN Classification: Greeting Card Publishers & Wholesalers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A12SW (W)	854	-	510866 189898
129	<b>Contemporary Trade Directory Entries</b> Name: Hyperian Contract Ltd Location: Monument House, 215, Marsh Road, Pinner, Middlesex, HA5 5NE Classification: Mechanical Engineers <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	854	-	512154 189451
129	<b>Contemporary Trade Directory Entries</b> Name: Meditrac Uk Location: Monument House, 215, Marsh Road, Pinner, HA5 5NE Classification: Medical Equipment Manufacturers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9SW (SE)	854	-	512154 189451
130	<b>Contemporary Trade Directory Entries</b> Name: Wdp Communications Ltd Location: The Folly, Pinner Hill Farm, Pinner Hill Road, Pinner, Middlesex, HA5 3YQ Classification: Printers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	862	-	511032 190769
130	<b>Contemporary Trade Directory Entries</b> Name: The Nuttery Location: High Barn, Pinner Hill Road, Pinner, Middlesex, HA5 3YQ Classification: Manufacturers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	864	-	511018 190756
131	<b>Contemporary Trade Directory Entries</b> Name: Kingfisher Design & Print Location: 2, St. Thomas Court, St. Thomas Drive, Pinner, Middlesex, HA5 4SP Classification: Printers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A19SW (NE)	866	-	512300 190813
132	<b>Contemporary Trade Directory Entries</b> Name: Ace-Pro Location: 237, Tolcarne Drive, Pinner, Middlesex, HA5 2DW Classification: Carpet, Curtain & Upholstery Cleaners <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A7NW (SW)	867	-	510890 189809
133	<b>Contemporary Trade Directory Entries</b> Name: Adler Electrics Ltd Location: 83, Evelyn Drive, Pinner, Middlesex, HA5 4RN Classification: Electrical Engineers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A18NE (N)	872	-	511836 191057

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
134	<b>Contemporary Trade Directory Entries</b> Name: Wickgrove Ltd Location: Una Cottage, Cuckoo Hill, Pinner, Middlesex, HA5 2BB Classification: Veneer Manufacturers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	886	-	511165 189449
135	<b>Contemporary Trade Directory Entries</b> Name: Homeflair Diy Ltd Location: 209-211, Marsh Road, Pinner, Middlesex, HA5 5NE Classification: Wallpapers & Wall Coverings <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	887	-	512151 189410
135	<b>Contemporary Trade Directory Entries</b> Name: A B P Location: 199-201, Marsh Road, Pinner, Middlesex, HA5 5NE Classification: Printers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	918	-	512164 189382
135	<b>Contemporary Trade Directory Entries</b> Name: Star Dry Cleaners Location: 179, Marsh Road, Pinner, Middlesex, HA5 5PB Classification: Dry Cleaners <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	964	-	512191 189344
135	<b>Contemporary Trade Directory Entries</b> Name: Star Dry Cleaners Location: 179, Marsh Road, Pinner, Middlesex, HA5 5PB Classification: Dry Cleaners <b>Status:</b> Active Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	964	-	512191 189344
136	<b>Contemporary Trade Directory Entries</b> Name: P M C Of Pinner Location: Rear of 11, School Lane, Pinner, Middlesex, HA5 5NF Classification: Garage Services <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A9SW (SE)	899	-	512209 189435
137	<b>Contemporary Trade Directory Entries</b> Name: Bespoke Shutters Ltd Location: 70 Lawson Gdns, Pinner, Middlesex, HA5 2EB Classification: Blinds, Awnings & Canopies <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NW (SW)	929	-	510870 189716
138	<b>Contemporary Trade Directory Entries</b> Name: B & N Building Services Location: 28, St. Thomas Drive, Pinner, Middlesex, HA5 4SS Classification: Air Conditioning Equipment & Systems <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	946	-	512479 190721
138	<b>Contemporary Trade Directory Entries</b> Name: Pinner Air Conditioning Location: 28, St. Thomas Drive, Pinner, Middlesex, HA5 4SS Classification: Air Conditioning & Refrigeration Contractors <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	946	-	512479 190721
139	<b>Contemporary Trade Directory Entries</b> Name: Sentryguard Ltd Location: 76, Lyndhurst Avenue, Pinner, Middlesex, HA5 3XA Classification: Damp & Dry Rot Control <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A17SW (W)	988	-	510742 190530
140	<b>Contemporary Trade Directory Entries</b> Name: Honiss Automobiles Location: Unit 11 Jubilee Parade, West End Avenue, Pinner, Middlesex, HA5 1BB Classification: Car Body Repairs <b>Status:</b> Active Positional Accuracy: Manually positioned within the geographical locality	A9SW (SE)	993	-	512188 189309

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	<b>Fuel Station Entries</b> Name: Shell Pinner Location: 21, Pinner Green , , Pinner, Outer London, HA5 2AF Brand: SHELL Premises Type: Petrol Station <b>Status: Open</b> Positional Accuracy: Automatically positioned to the address	A12SE (SW)	380	-	511344 189991



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	<b>Ancient Woodland</b> Name: Pinner Wood Reference: 1495682 Area(m²): 23600.91 Type: Ancient and Semi-Natural Woodland	A17NE (NW)	1000	8	511277 191112
143	<b>Areas of Adopted Green Belt</b> Authority: London Borough of Harrow Plan Name: Proposal Map Status: <b>Adopted</b> Plan Date: 4th July 2013	A17NE (NW)	789	9	511323 190900
144	<b>Areas of Adopted Green Belt</b> Authority: London Borough of Harrow Plan Name: Proposal Map Status: <b>Adopted</b> Plan Date: 4th July 2013	A14NE (E)	831	9	512517 190306
145	<b>Nitrate Vulnerable Zones</b> Name: Colne And Guc (From Confluence With Chess To Ash) Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NE (E)	0	4	511684 190183

Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Watford Borough Council - Environmental Health Department Three Rivers District Council - Environmental Health Department London Borough of Hillingdon - Environmental Protection Unit London Borough of Ealing - Environmental Health and Trading Standards Division London Borough of Harrow - Environmental Health Services Hertsmere Borough Council - Environmental Health Department London Borough of Brent - Environmental Health Department	April 2014 January 2015 March 2015 October 2013 October 2014 September 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - Thames Region	January 2020	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - Thames Region	March 2013	Annual Rolling Update
<b>Integrated Pollution Controls</b> Environment Agency - Thames Region	October 2008	Variable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region	January 2020 January 2020	Quarterly Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> London Borough of Hillingdon - Environmental Health Department London Borough of Harrow - Environmental Health Services Three Rivers District Council - Environmental Health Department Hertsmere Borough Council - Environmental Health Department London Borough of Ealing - Environmental Health and Trading Standards Division Watford Borough Council - Environmental Health Department London Borough of Brent - Environmental Health Department	August 2014 December 2014 February 2015 January 2015 July 2015 June 2014 March 2016	Variable Variable Variable Variable Variable Variable Variable
<b>Local Authority Pollution Prevention and Controls</b> London Borough of Hillingdon - Environmental Health Department London Borough of Harrow - Environmental Health Services Three Rivers District Council - Environmental Health Department Hertsmere Borough Council - Environmental Health Department London Borough of Ealing - Environmental Health and Trading Standards Division Watford Borough Council - Environmental Health Department London Borough of Brent - Environmental Health Department	August 2014 December 2014 February 2015 January 2015 July 2015 June 2014 March 2016	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> London Borough of Hillingdon - Environmental Health Department London Borough of Harrow - Environmental Health Services Three Rivers District Council - Environmental Health Department Hertsmere Borough Council - Environmental Health Department London Borough of Ealing - Environmental Health and Trading Standards Division Watford Borough Council - Environmental Health Department London Borough of Brent - Environmental Health Department	August 2014 December 2014 February 2015 January 2015 July 2015 June 2014 March 2016	Variable Variable Variable Variable Variable Variable Variable
<b>Nearest Surface Water Feature</b> Ordnance Survey	January 2020	
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - Thames Region	September 1999	Not Applicable
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - Thames Region	March 2013	Annual Rolling Update
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - Thames Region	March 2013	Annual Rolling Update
<b>Registered Radioactive Substances</b> Environment Agency - Thames Region	June 2016	
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable

Agency & Hydrological	Version	Update Cycle
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>Substantiated Pollution Incident Register</b> Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	January 2020 January 2020	Quarterly Quarterly
<b>Water Abstractions</b> Environment Agency - Thames Region	January 2020	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - Thames Region	October 2017	Quarterly
<b>Groundwater Vulnerability Map</b> Environment Agency - Head Office	June 2018	As notified
<b>Groundwater Vulnerability - Soluble Rock Risk</b> Environment Agency - Head Office	June 2018	As notified
<b>Bedrock Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually
<b>Superficial Aquifer Designations</b> Environment Agency - Head Office	January 2018	Annually
<b>Source Protection Zones</b> Environment Agency - Head Office	October 2019	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	November 2019	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	November 2019	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	November 2019	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	November 2019	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	November 2019	Quarterly
<b>OS Water Network Lines</b> Ordnance Survey	January 2020	Quarterly
<b>BGS Groundwater Flooding Susceptibility</b> British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
<b>Historical Landfill Sites</b> Environment Agency - Head Office	October 2019	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - Thames Region	October 2008	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	November 2019 November 2019	Quarterly Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - South East Region - Kent & South London Area Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	January 2020 January 2020 January 2020	Quarterly Quarterly Quarterly
<b>Local Authority Landfill Coverage</b> Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Environmental Health Department London Borough of Brent - Environmental Health Department London Borough of Ealing London Borough of Harrow - Environmental Health Services London Borough of Hillingdon - Environmental Health Department Three Rivers District Council - Environmental Health Department Watford Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Environmental Health Department London Borough of Brent - Environmental Health Department London Borough of Ealing London Borough of Harrow - Environmental Health Services London Borough of Hillingdon - Environmental Health Department Three Rivers District Council - Environmental Health Department Watford Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - Thames Region - North East Area	March 2003	Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - Thames Region - North East Area	March 2003	Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - Thames Region - North East Area	June 2015	Not Applicable

Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	April 2018	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	March 2017	Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> London Borough of Harrow Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Planning Department London Borough of Ealing Three Rivers District Council Watford Borough Council - Development Control London Borough of Brent London Borough of Hillingdon	April 2015 February 2016 February 2016 February 2016 February 2016 February 2016 January 2016 January 2016	Variable Variable Variable Variable Variable Variable Variable Variable
<b>Planning Hazardous Substance Consents</b> London Borough of Harrow Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Planning Department London Borough of Ealing Three Rivers District Council Watford Borough Council - Development Control London Borough of Brent London Borough of Hillingdon	April 2015 February 2016 February 2016 February 2016 February 2016 February 2016 January 2016 January 2016	Variable Variable Variable Variable Variable Variable Variable Variable



Geological	Version	Update Cycle
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	October 2019	Bi-Annually
<b>CBSCB Compensation District</b> Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Property Searches	March 2014	Annual Rolling Update
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	July 2011	Annually
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	July 2011	Annually
Industrial Land Use	Version	Update Cycle
<b>Contemporary Trade Directory Entries</b> Thomson Directories	January 2020	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	December 2019	Quarterly
<b>Gas Pipelines</b> National Grid	July 2014	
<b>Underground Electrical Cables</b> National Grid	October 2019	

Sensitive Land Use	Version	Update Cycle
<b>Ancient Woodland</b> Natural England	August 2018	Bi-Annually
<b>Areas of Adopted Green Belt</b> Hertsmere Borough Council - Planning Department London Borough of Brent London Borough of Ealing London Borough of Harrow London Borough of Hillingdon Three Rivers District Council Watford Borough Council	February 2020 February 2020 February 2020 February 2020 February 2020 February 2020 February 2020	As notified As notified As notified As notified As notified As notified As notified
<b>Areas of Unadopted Green Belt</b> Hertsmere Borough Council - Planning Department London Borough of Brent London Borough of Ealing London Borough of Harrow London Borough of Hillingdon Three Rivers District Council Watford Borough Council	February 2020 February 2020 February 2020 February 2020 February 2020 February 2020 February 2020	As notified As notified As notified As notified As notified As notified As notified
<b>Areas of Outstanding Natural Beauty</b> Natural England	June 2019	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	January 2017	
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	March 2019	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	July 2019	Bi-Annually
<b>National Nature Reserves</b> Natural England	July 2019	Bi-Annually
<b>National Parks</b> Natural England	April 2017	Bi-Annually
<b>Nitrate Vulnerable Zones</b> Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
<b>Ramsar Sites</b> Natural England	April 2019	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	March 2019	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	June 2019	Bi-Annually
<b>Special Protection Areas</b> Natural England	April 2019	Bi-Annually

A selection of organisations who provide data within this report

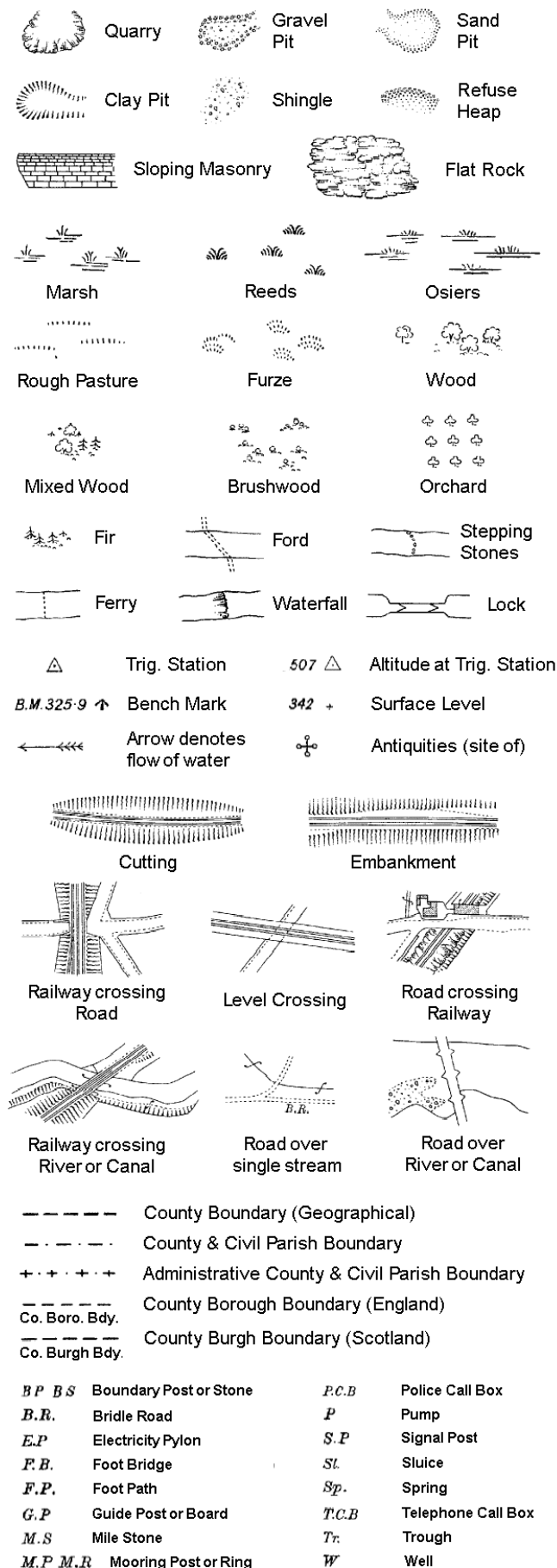
Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 <b>British Geological Survey</b> NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 <b>Centre for Ecology &amp; Hydrology</b> NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	<b>London Borough of Harrow - Environmental Health Services</b> P O Box 18, Civic Centre, Harrow, Middlesex, HA1 2UT	Telephone: 020 8863 5611 Fax: 020 8863 8267 Website: www.harrow.gov.uk
4	<b>Environment Agency - Head Office</b> Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	<b>Ordnance Survey</b> Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	<b>London Borough of Hillingdon - Environmental Health Department</b> Civic Centre, High Street, Uxbridge, Middlesex, UB8 1UW	Telephone: 01895 250111 Fax: 01895 277443 Website: www.hillingdon.gov.uk
7	<b>Peter Brett Associates</b> Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
8	<b>Natural England</b> County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
9	<b>London Borough of Harrow</b> Civic Centre, Station Road, Harrow, Middlesex, HA1 2XF	Telephone: 020 8863 5611 Fax: 020 8863 8267 Website: www.harrow.gov.uk
10	<b>London Borough of Hillingdon</b> Civic Centre, High Street, Uxbridge, Middlesex, UB8 1UW	Telephone: 01895 250111 Fax: 01895 250830 Website: www.hillingdon.gov.uk
11	<b>Three Rivers District Council</b> Three Rivers House, Northway, Rickmansworth, Hertfordshire, WD3 1RL	Telephone: 01923 776611 Fax: 01923 896119 Website: www.threerivers.gov.uk
-	<b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

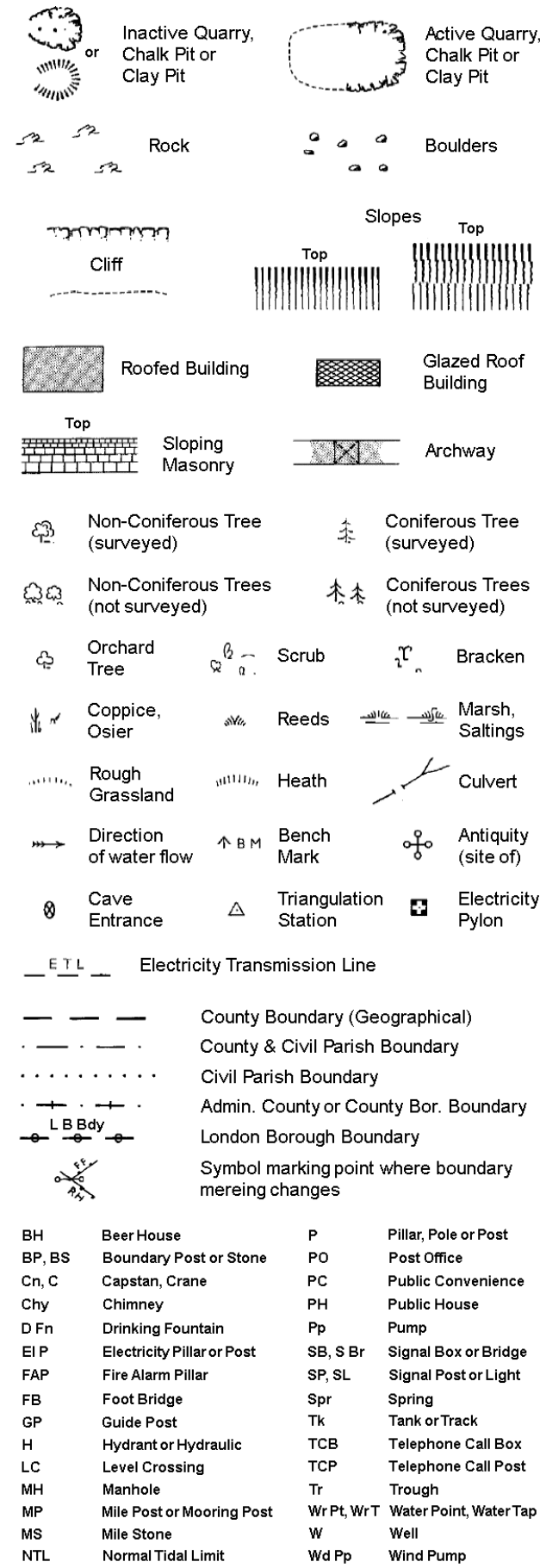
Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

# Historical Mapping Legends

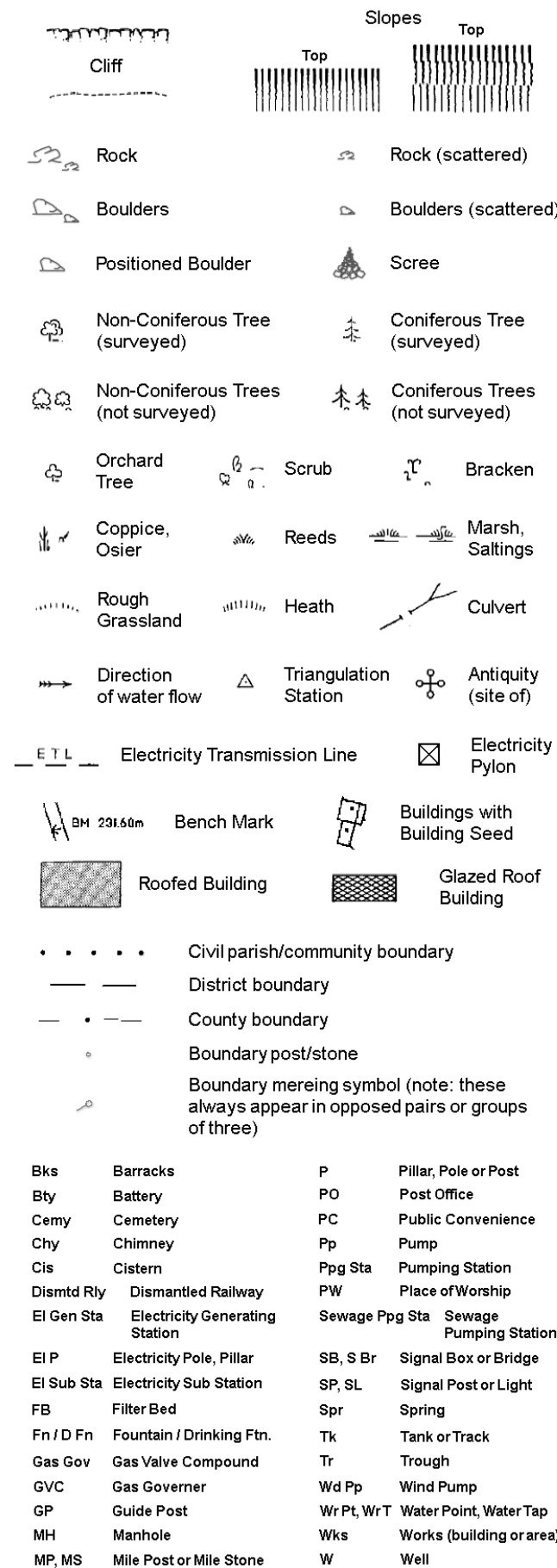
## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



## Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



## Large-Scale National Grid Data 1:2,500 and 1:1,250



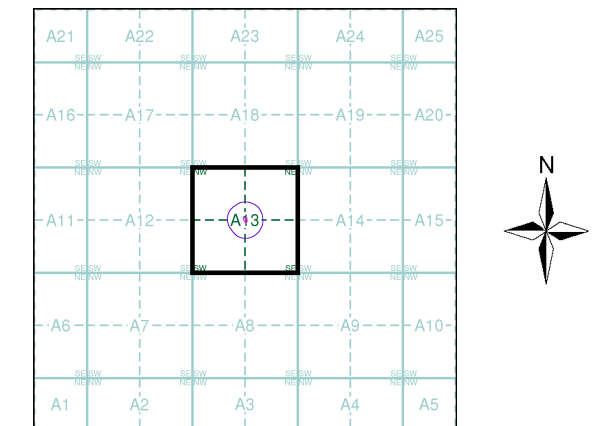
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## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Middlesex	1:2,500	1876	2
Middlesex	1:2,500	1896	3
Middlesex	1:2,500	1913	4
Middlesex	1:2,500	1932	5
Ordnance Survey Plan	1:1,250	1959 - 1964	6
Additional SIMs	1:1,250	1959 - 1987	7
Ordnance Survey Plan	1:2,500	1960 - 1966	8
Ordnance Survey Plan	1:1,250	1970 - 1983	9
Additional SIMs	1:1,250	1979 - 1985	10
Additional SIMs	1:1,250	1987	11
Large-Scale National Grid Data	1:1,250	1991 - 1992	12
Large-Scale National Grid Data	1:1,250	1992 - 1993	13

## Historical Map - Segment A13



## Order Details

Order Number: 238804813\_1\_1  
Customer Ref: LA20006  
National Grid Reference: 511680, 190180  
Slice: A  
Site Area (Ha): 0.06  
Search Buffer (m): 100

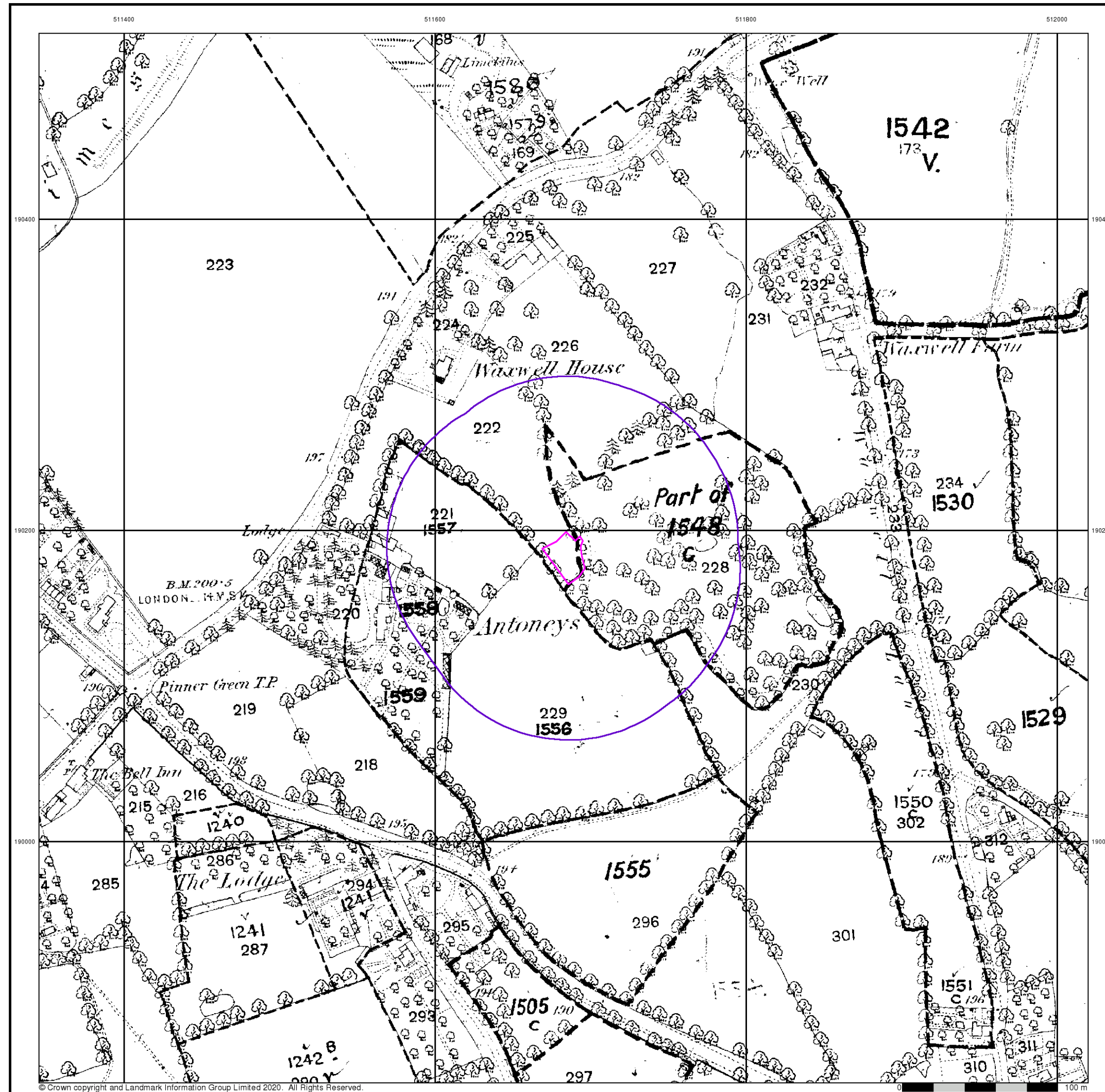
## Site Details

46, Antoneys Close, PINNER, HA5 3LP

**Landmark®**  
INFORMATION GROUP

Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk





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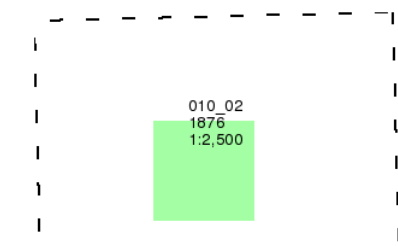
Middlesex

Published 1876

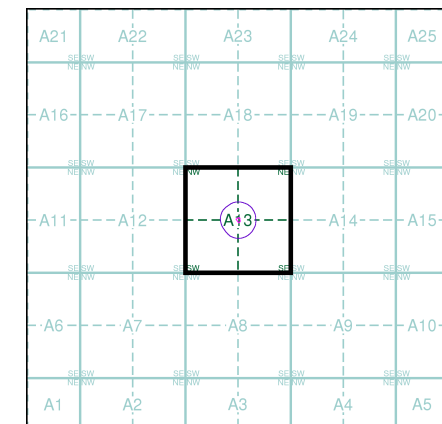
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)



## Historical Map - Segment A13



## Order Details

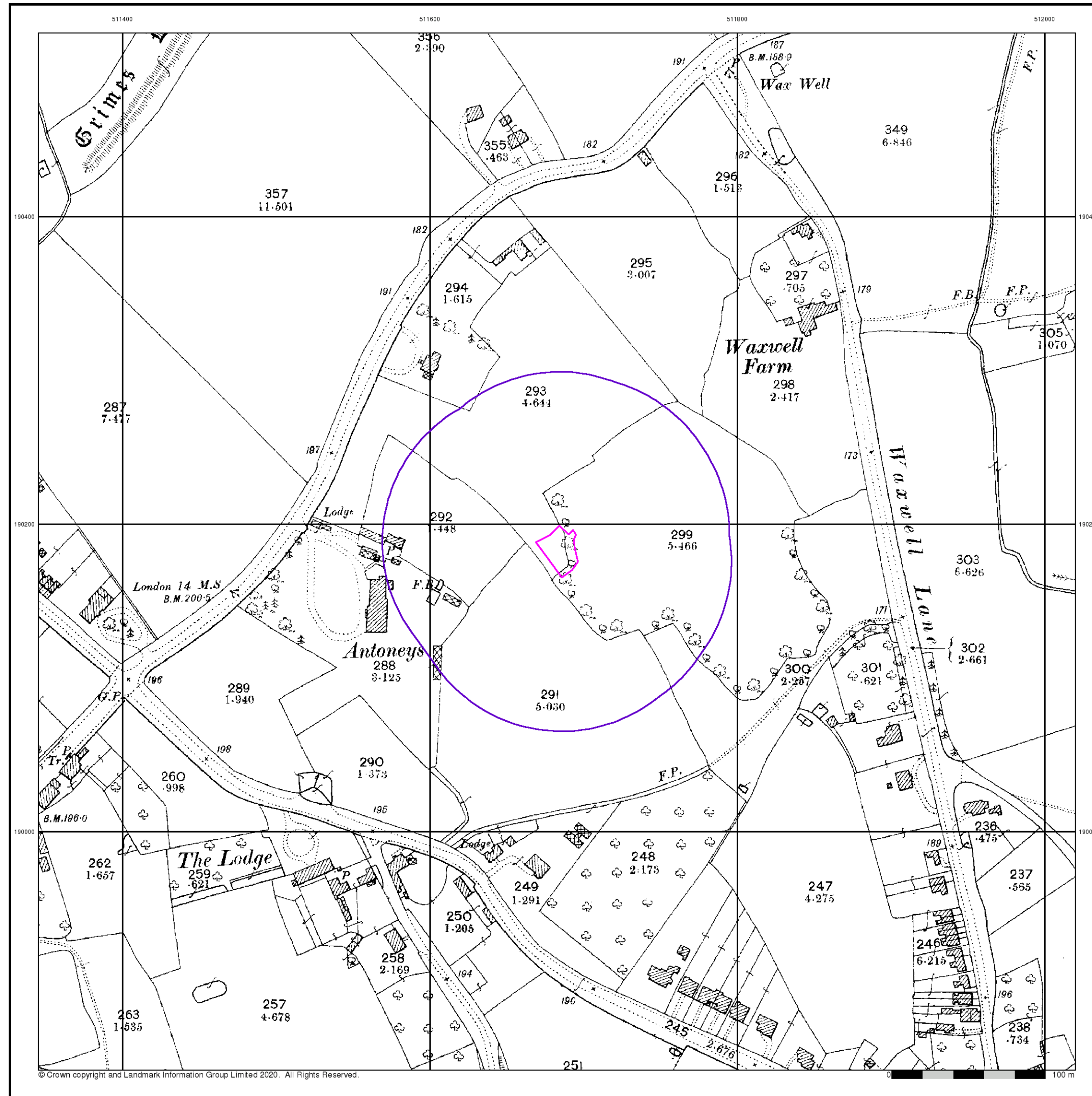
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Customer Ref: LA20006  
National Grid Reference: 511680, 190180  
Slice: A  
Site Area (Ha): 0.06  
Search Buffer (m): 100

## Site Details

46, Antoneys Close, PINNER, HA5 3LP

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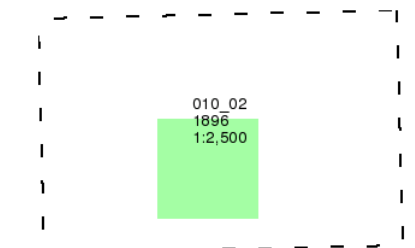
**Middlesex**

**Published 1896**

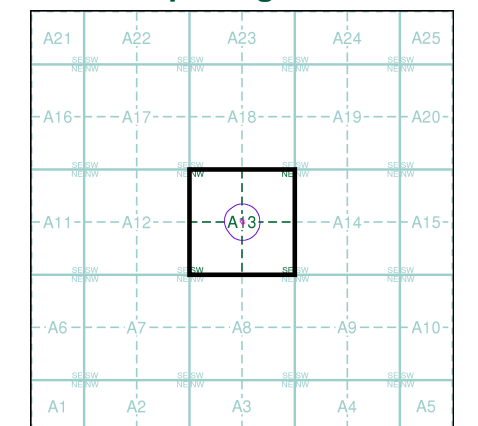
**Source map scale - 1:2,500**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A13**



**Order Details**

Order Number: 238804813\_1\_1  
Customer Ref: LA20006  
National Grid Reference: 511680, 190180  
Slice: A  
Site Area (Ha): 0.06  
Search Buffer (m): 100

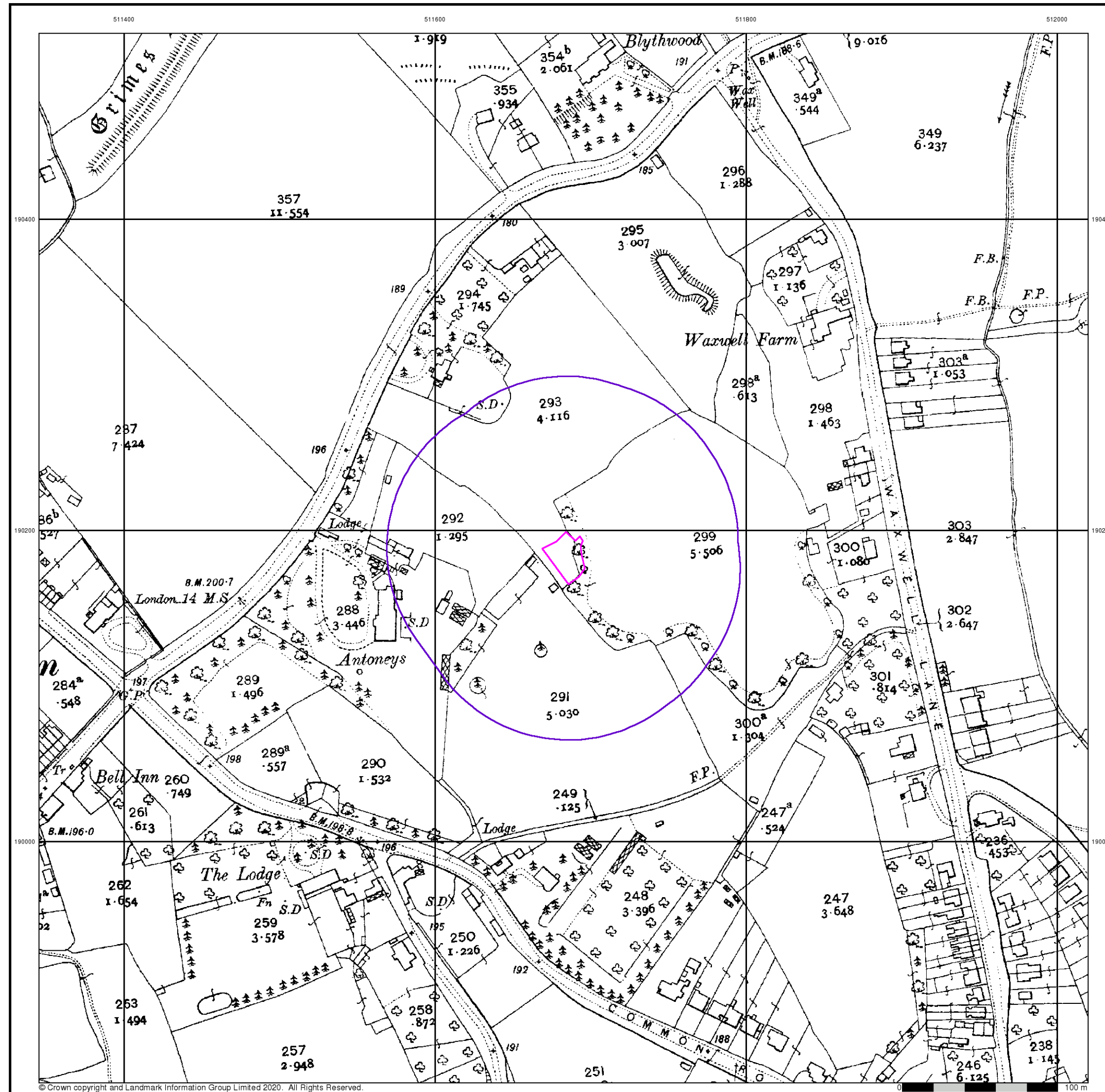
**Site Details**

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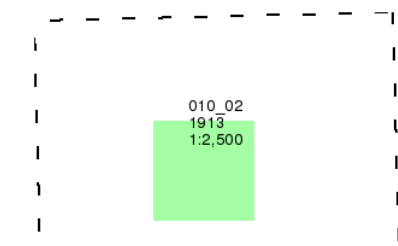
Middlesex

Published 1913

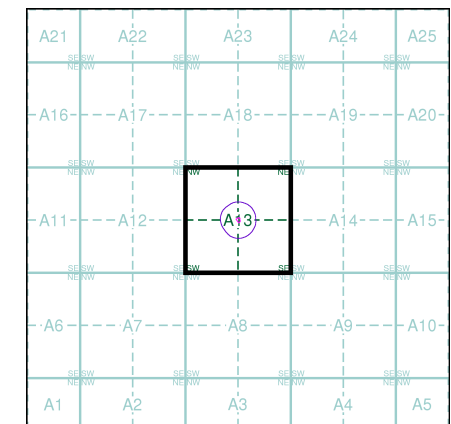
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

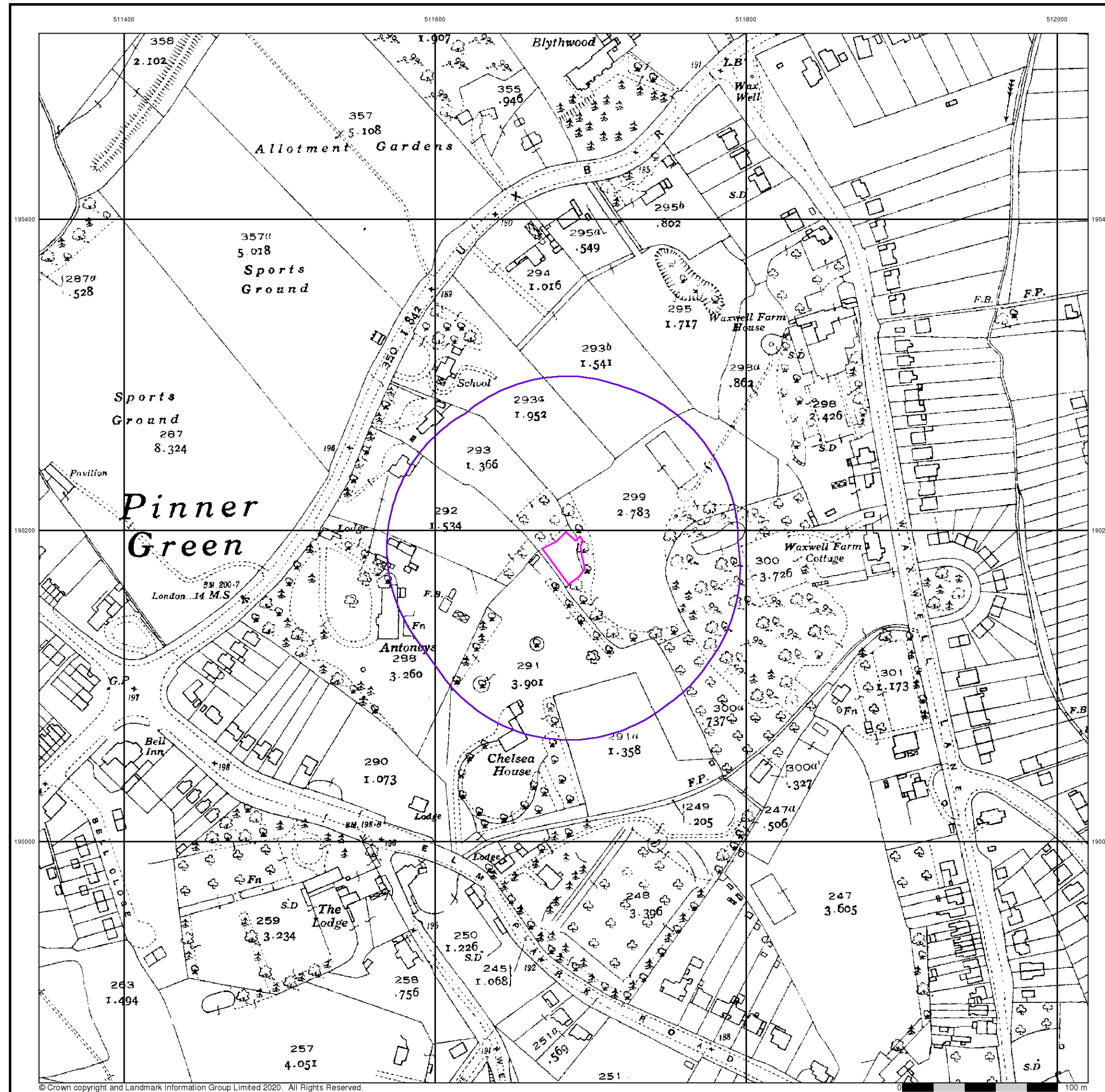
Order Number: 238804813\_1\_1  
Customer Ref: LA20006  
National Grid Reference: 511680, 190180  
Slice: A  
Site Area (Ha): 0.06  
Search Buffer (m): 100

Site Details

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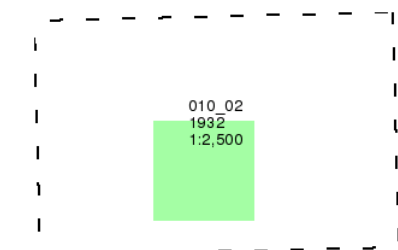
Middlesex

Published 1932

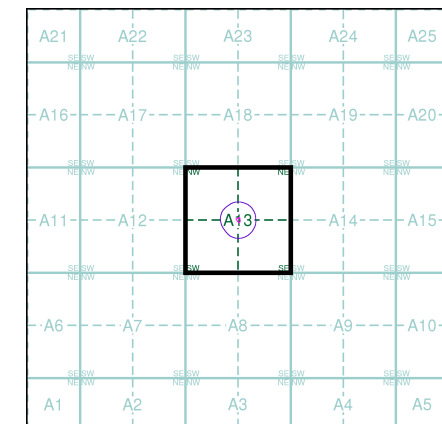
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 238804813\_1\_1  
Customer Ref: LA20006  
National Grid Reference: 511680, 190180  
Slice: A  
Site Area (Ha): 0.06  
Search Buffer (m): 100

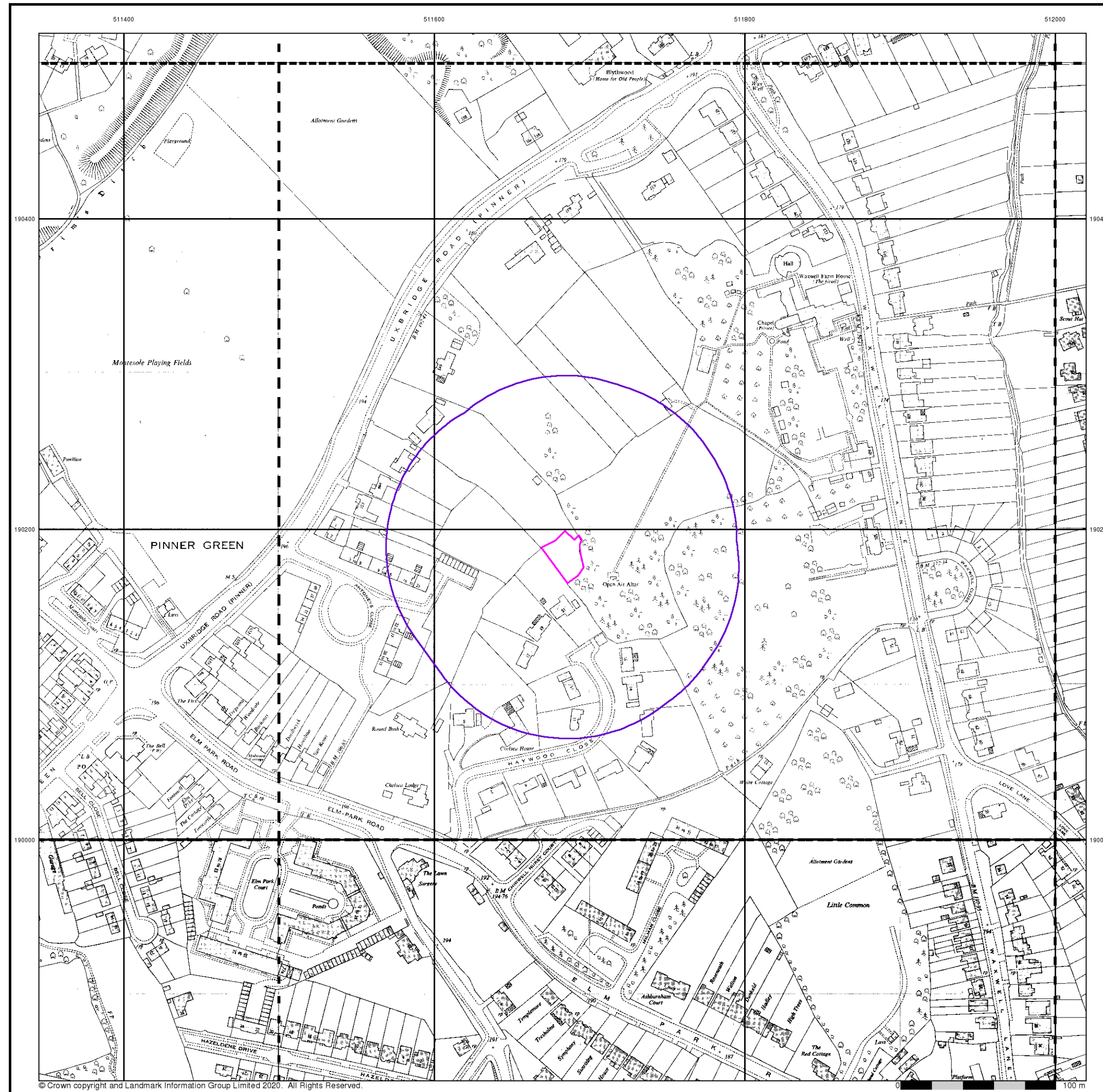
Site Details

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## Ordnance Survey Plan

Published 1959 - 1964

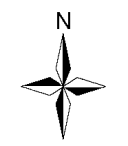
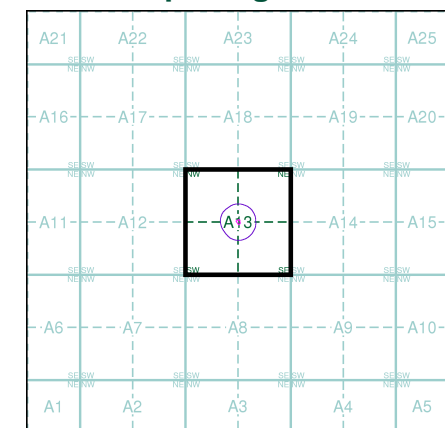
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

Q1190NW	Q1190NE	Q1290NW
1964	1964	1964
1:1,250	1:1,250	1:1,250
Q1190SW	Q1190SE	Q1290SW
1964	1964	1964
1:1,250	1:1,250	1:1,250
Q1189NW	Q1189NE	Q1289NW
1959	1959	1959
1:1,250	1:1,250	1:1,250

### Historical Map - Segment A13



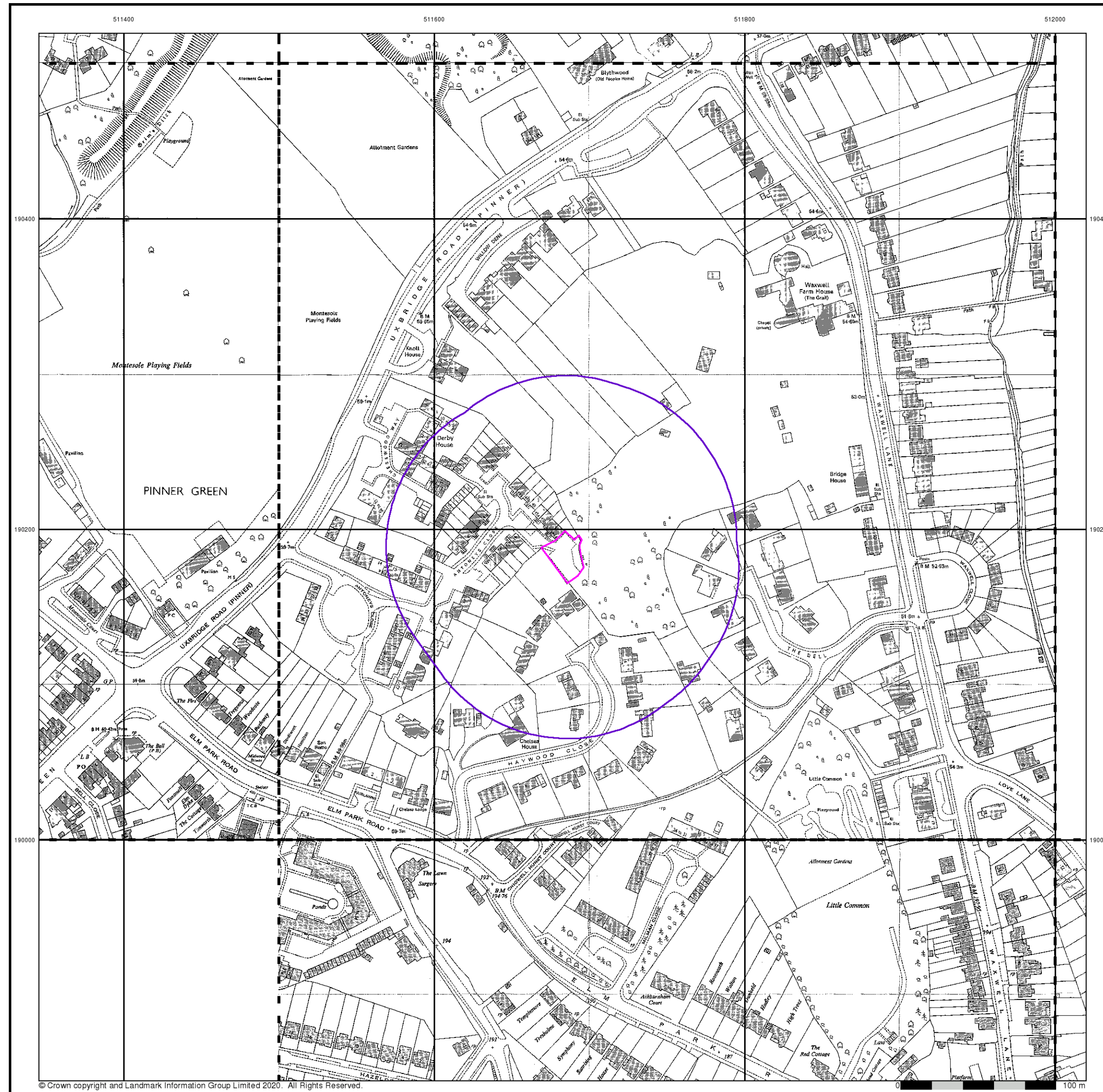
**Order Details**

Order Number: 238804813\_1\_1  
Customer Ref: LA20006  
National Grid Reference: 511680, 190180  
Slice: A  
Site Area (Ha): 0.06  
Search Buffer (m): 100

**Site Details**

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## Additional SIMs

Published 1959 - 1987

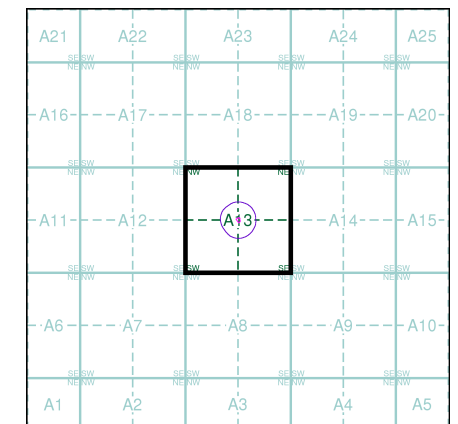
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)

TO1190NW	TO1190NE
1964	1964
1:1,250	1:1,250
TO1190SW	TO1190SE
1964	1977
1:1,250	1:1,250
TO1189NE	TO1289NW
1959	1987
1:1,250	1:1,250

## Historical Map - Segment A13



## Order Details

Order Number: 238804813\_1\_1  
Customer Ref: LA20006  
National Grid Reference: 511680, 190180  
Slice: A  
Site Area (Ha): 0.06  
Search Buffer (m): 100

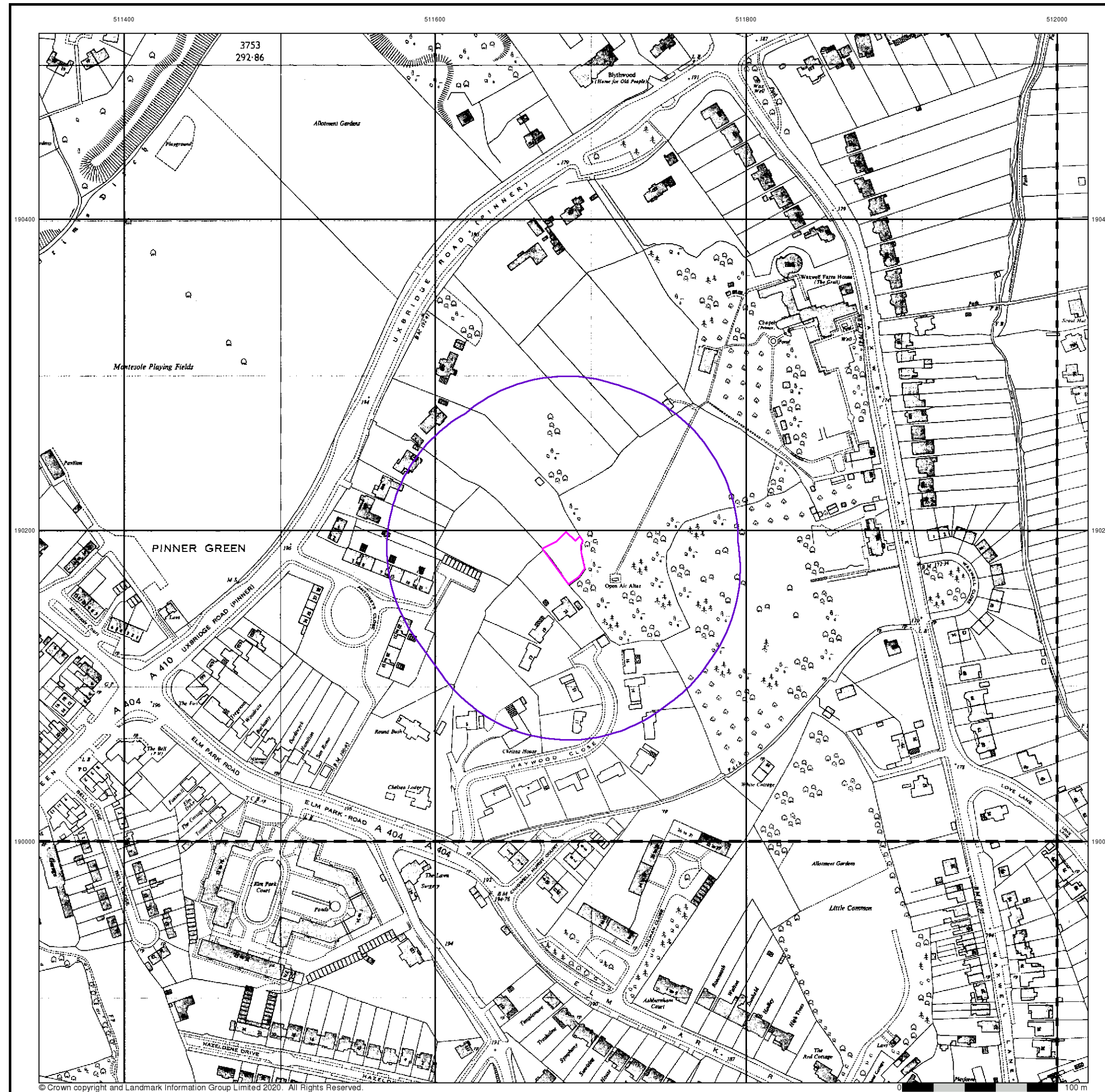
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## Ordnance Survey Plan

Published 1960 - 1966

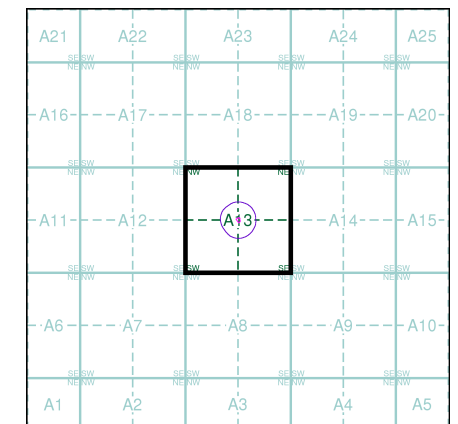
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)

TQ1190 1966 1:2,500	TQ1290 1966 1:2,500
TQ1189 1960 1:2,500	TQ1289 1960 1:2,500

## Historical Map - Segment A13



## Order Details

Order Number: 238804813\_1\_1  
Customer Ref: LA20006  
National Grid Reference: 511680, 190180  
Slice: A  
Site Area (Ha): 0.06  
Search Buffer (m): 100

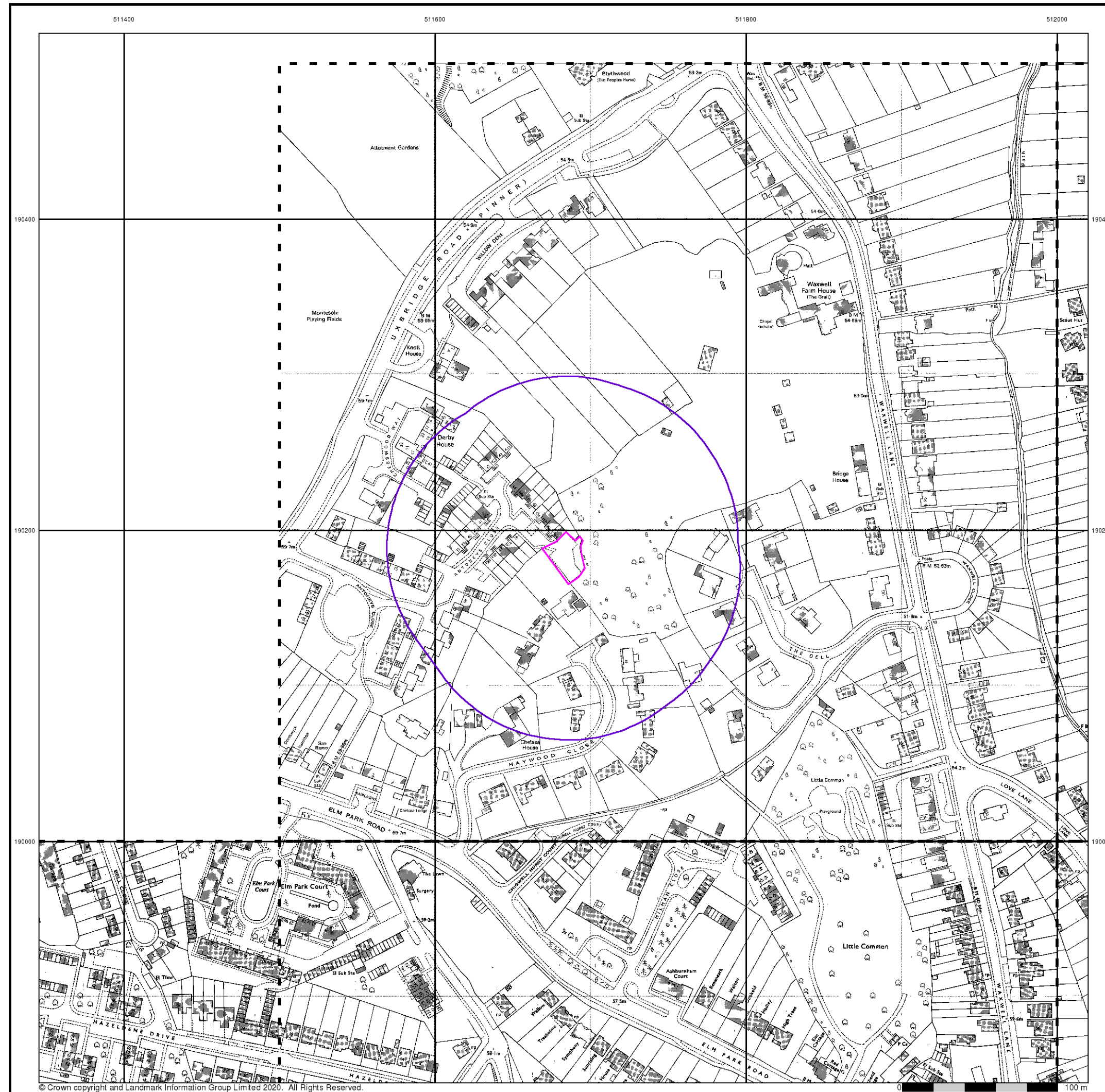
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## Ordnance Survey Plan

Published 1970 - 1983

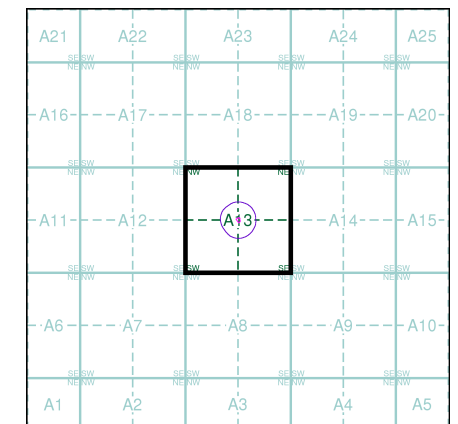
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)

		TQ1290NW	
		1977	
		1:1,250	
		TQ1190SE	TQ1290SW
		1983	1972
		1:1,250	1:1,250
TQ1189NW	TQ1189NE	TQ1289NW	
1970	1972	1972	
1:1,250	1:1,250	1:1,250	

## Historical Map - Segment A13



## Order Details

Order Number: 238804813\_1\_1  
Customer Ref: LA20006  
National Grid Reference: 511680, 190180  
Slice: A  
Site Area (Ha): 0.06  
Search Buffer (m): 100

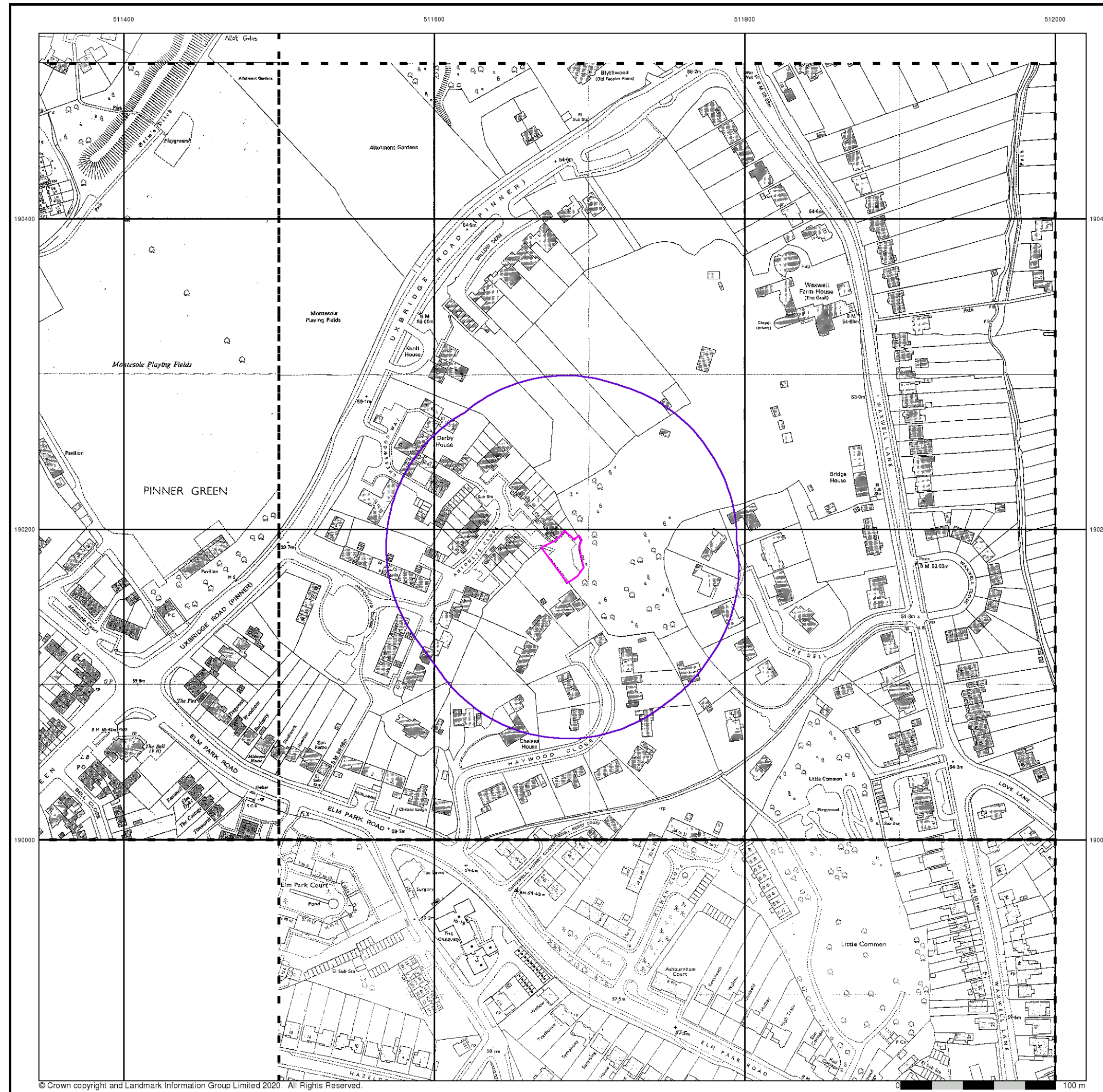
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## Additional SIMs

Published 1979 - 1985

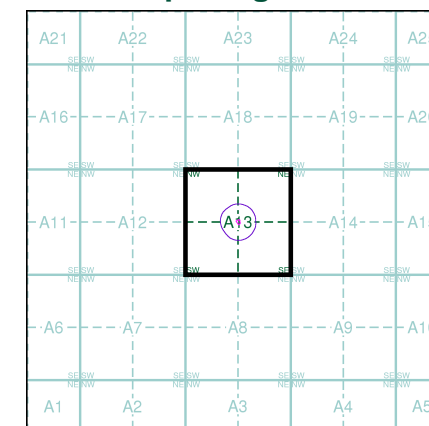
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)

Q1190NW	1985	1:1,250
Q1190SW	1979	1:1,250
Q1190SE	1983	1:1,250
Q1189NE	1980	1:1,250

## Historical Map - Segment A13



## Order Details

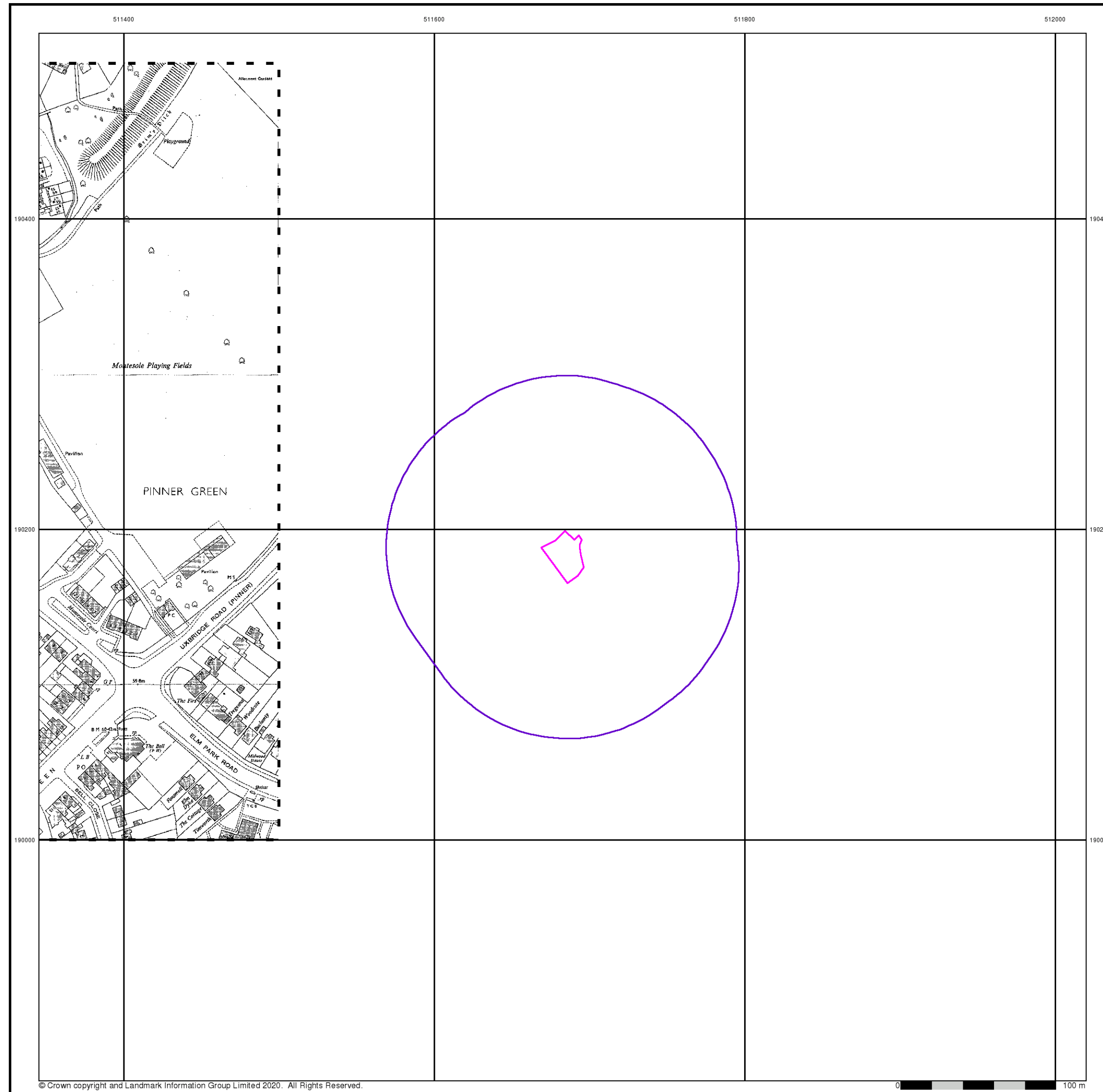
Order Number: 238804813\_1\_1  
Customer Ref: LA20006  
National Grid Reference: 511680, 190180  
Slice: A  
Site Area (Ha): 0.06  
Search Buffer (m): 100

## Site Details

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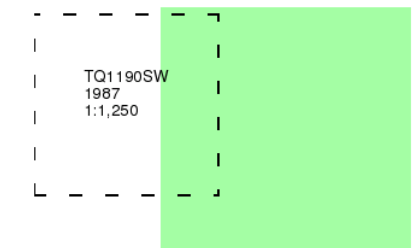
## Additional SIMs

Published 1987

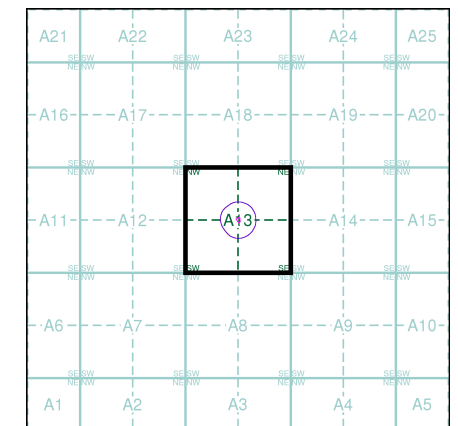
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)



## Historical Map - Segment A13



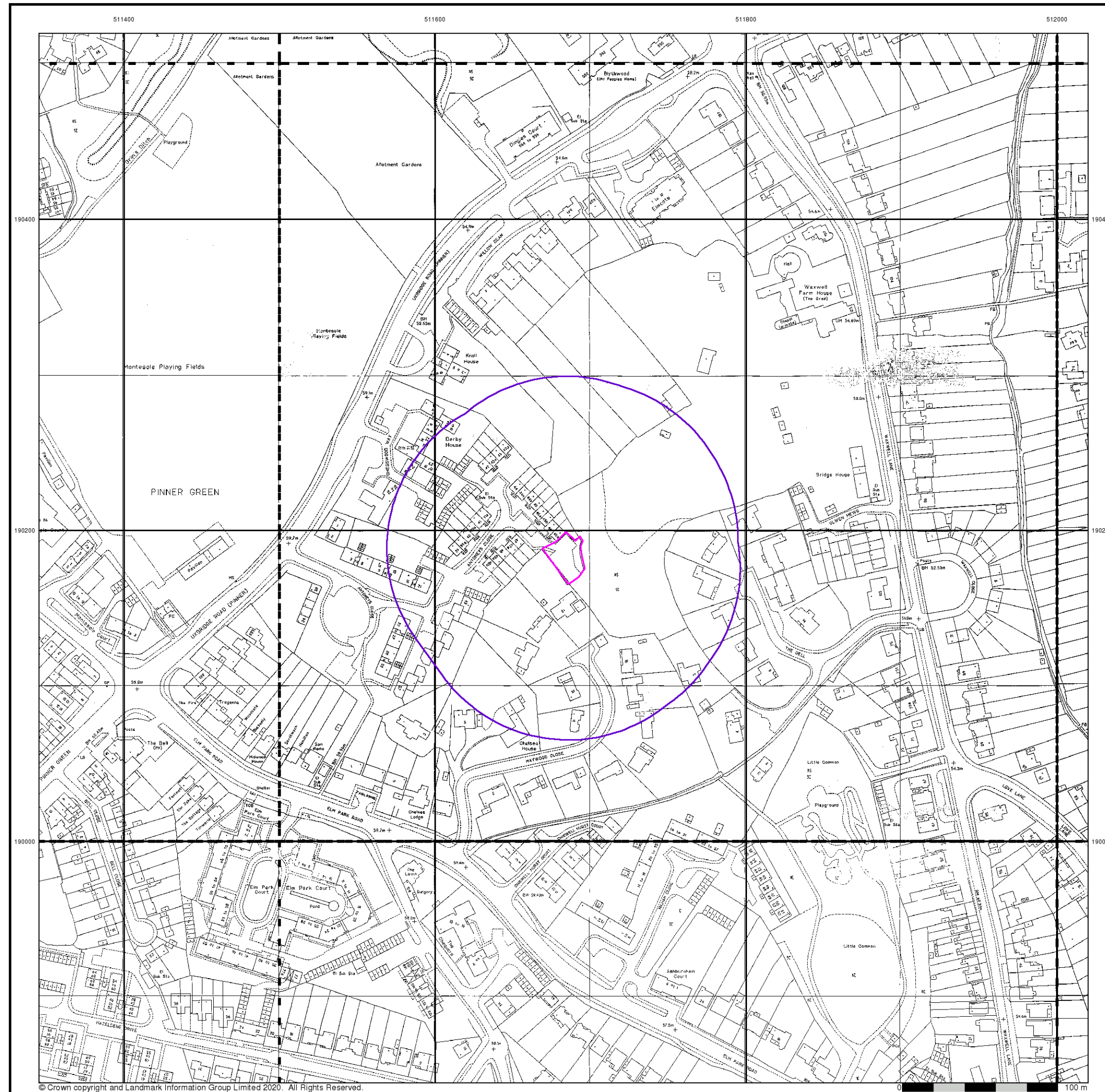
## Order Details

Order Number: 238804813\_1\_1  
Customer Ref: LA20006  
National Grid Reference: 511680, 190180  
Slice: A  
Site Area (Ha): 0.06  
Search Buffer (m): 100

## Site Details

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## Large-Scale National Grid Data

Published 1991 - 1992

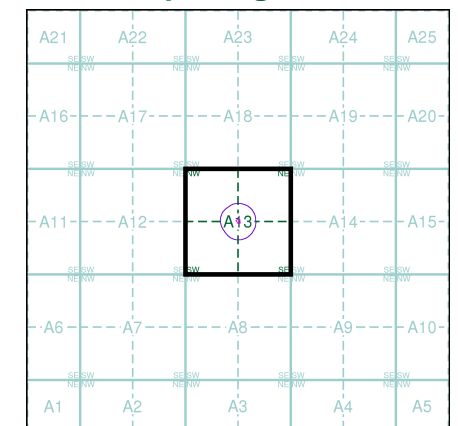
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

Q1190NW	Q1190NE	Q1290NW
1992	1992	1992
1:1,250	1:1,250	1:1,250
Q1190SW	Q1190SE	Q1290SW
1992	1992	1992
1:1,250	1:1,250	1:1,250
Q1189NW	Q1189NE	Q1289NW
1991	1991	1991
1:1,250	1:1,250	1:1,250

### Historical Map - Segment A13



### Order Details

Order Number: 238804813\_1\_1  
Customer Ref: LA20006  
National Grid Reference: 511680, 190180  
Slice: A  
Site Area (Ha): 0.06  
Search Buffer (m): 100

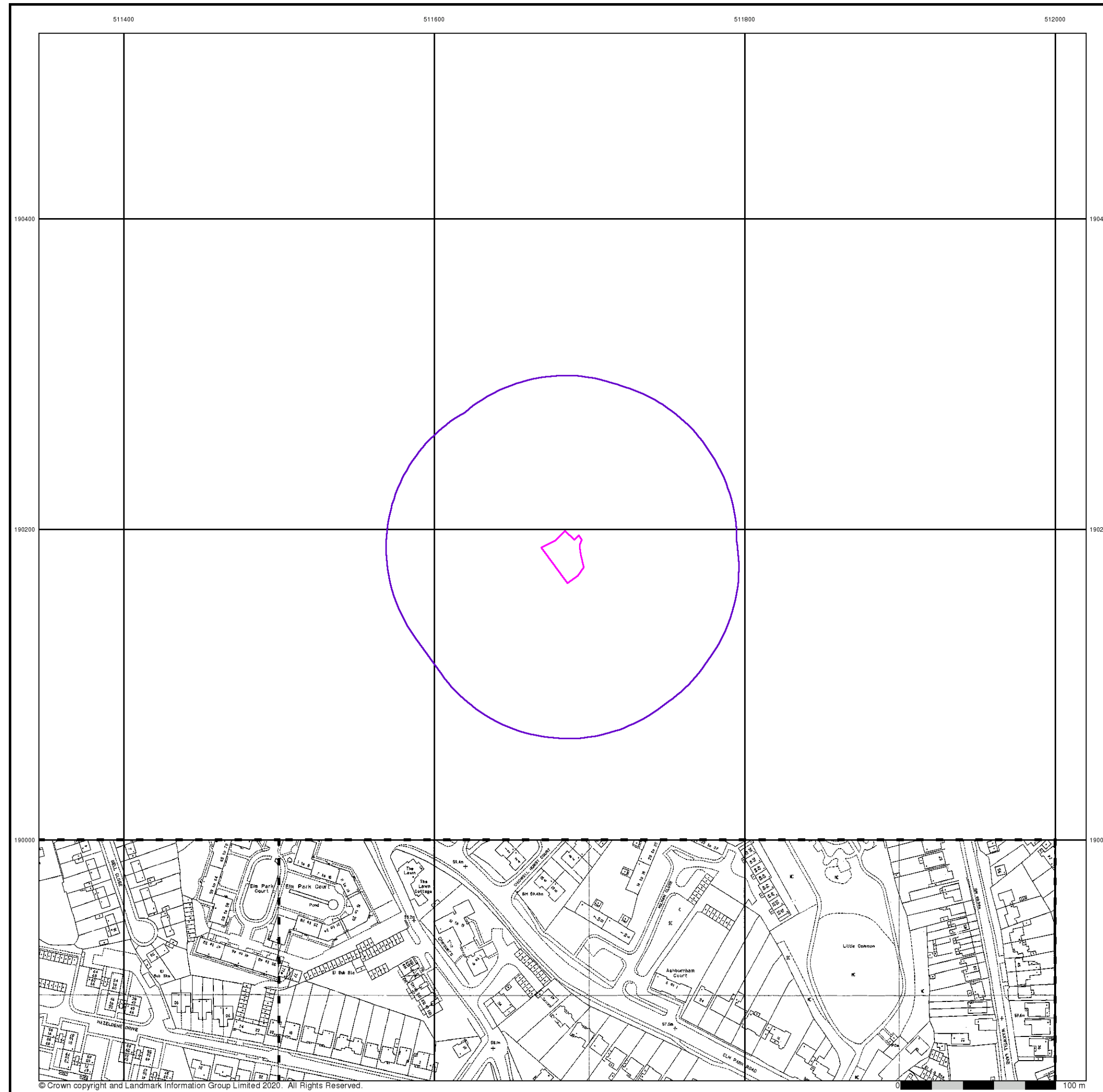
### Site Details

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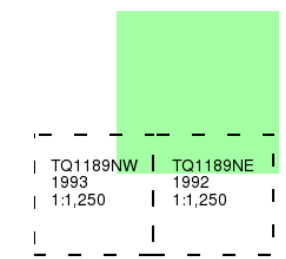
## Large-Scale National Grid Data

Published 1992 - 1993

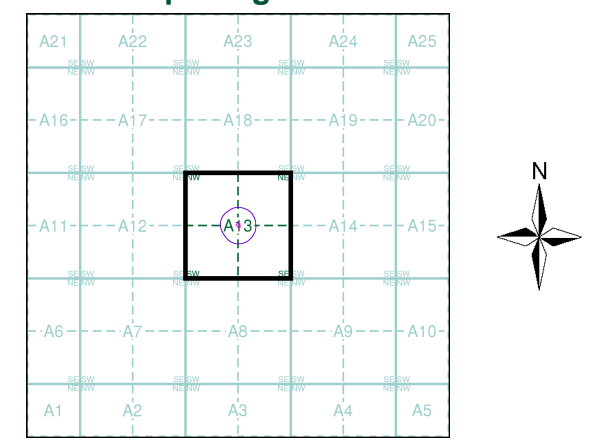
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

Order Number: 238804813\_1\_1  
Customer Ref: LA20006  
National Grid Reference: 511680, 190180  
Slice: A  
Site Area (Ha): 0.06  
Search Buffer (m): 100

### Site Details

46, Antoneys Close, PINNER, HA5 3LP

**Antoneys Close, Harrow**

**SUBADRA**

Environmental - Geotechnical - Laboratory - Foundations

13 Triangle Business Park, Wendover Road  
Stoke Mandeville, Bucks HP22 5BL

Tel. 01296 739400 Email: consultants@subadra.com

**ATTACHMENT THREE:  
GEO-HAZARDS REPORT**

Client: London Borough of Harrow

Report

LA20006 CL 001

Date

May 2020

Page

Attachment Three - 1

46, ANTONEYS CLOSE, PINNER, HA5 3LP

## Order Details

**Date:** 17/03/2020  
**Your ref:** 25910  
**Our Ref:** GS-6701567  
**Client:** Subadra Consulting

## Site Details

**Location:** 511686 190179  
**Area:** 0.05 ha



**Summary of findings**

p. 2 **Aerial image**

p. 5

**OS MasterMap site plan**

p. 8 [groundsure.com/insightuserguide](https://groundsure.com/insightuserguide)

Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

08444 159 000

## Summary of findings

Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">9</a>	<a href="#">1.1</a>	<a href="#">10k Availability</a>	Identified (within 500m)				
<a href="#">10</a>	<a href="#">1.2</a>	<a href="#">Artificial and made ground (10k)</a>	0	0	1	0	-
11	1.3	Superficial geology (10k)	0	0	0	0	-
11	1.4	Landslip (10k)	0	0	0	0	-
<a href="#">12</a>	<a href="#">1.5</a>	<a href="#">Bedrock geology (10k)</a>	1	0	3	1	-
13	1.6	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
<a href="#">14</a>	<a href="#">2.1</a>	<a href="#">50k Availability</a>	Identified (within 500m)				
<a href="#">15</a>	<a href="#">2.2</a>	<a href="#">Artificial and made ground (50k)</a>	0	0	1	0	-
16	2.3	Artificial ground permeability (50k)	0	0	-	-	-
17	2.4	Superficial geology (50k)	0	0	0	0	-
17	2.5	Superficial permeability (50k)	None (within 50m)				
17	2.6	Landslip (50k)	0	0	0	0	-
17	2.7	Landslip permeability (50k)	None (within 50m)				
<a href="#">18</a>	<a href="#">2.8</a>	<a href="#">Bedrock geology (50k)</a>	1	0	1	0	-
<a href="#">19</a>	<a href="#">2.9</a>	<a href="#">Bedrock permeability (50k)</a>	Identified (within 50m)				
19	2.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
20	3.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
<a href="#">21</a>	<a href="#">4.1</a>	<a href="#">Shrink swell clays</a>	Moderate (within 50m)				
<a href="#">22</a>	<a href="#">4.2</a>	<a href="#">Running sands</a>	Very low (within 50m)				
<a href="#">23</a>	<a href="#">4.3</a>	<a href="#">Compressible deposits</a>	Negligible (within 50m)				
<a href="#">24</a>	<a href="#">4.4</a>	<a href="#">Collapsible deposits</a>	Very low (within 50m)				
<a href="#">25</a>	<a href="#">4.5</a>	<a href="#">Landslides</a>	Very low (within 50m)				
<a href="#">26</a>	<a href="#">4.6</a>	<a href="#">Ground dissolution of soluble rocks</a>	Negligible (within 50m)				



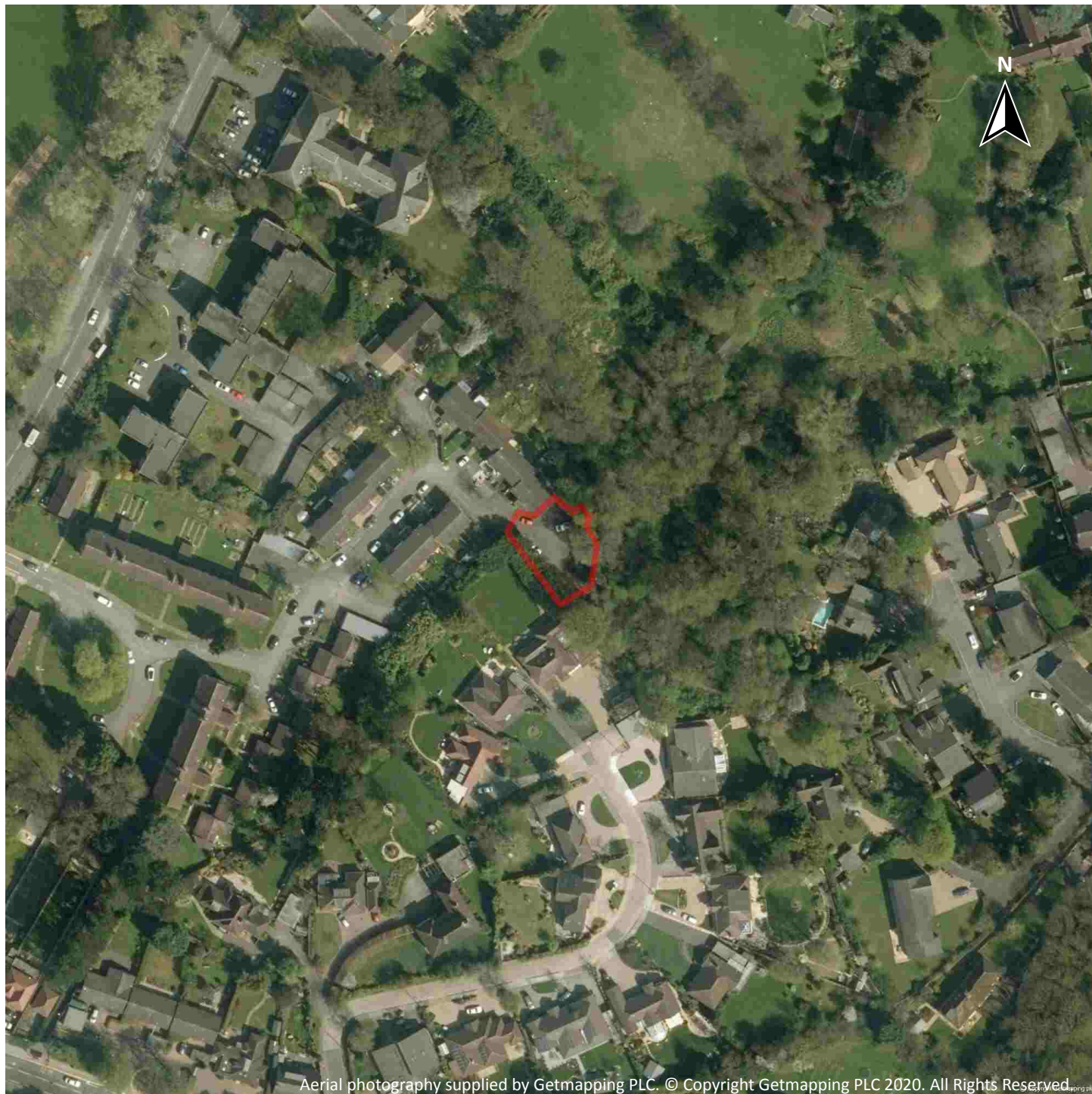
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">27</a>	<a href="#">5.1</a>	<a href="#">Natural cavities</a>	0	0	0	1	-
<a href="#">28</a>	<a href="#">5.2</a>	<a href="#">BritPits</a>	0	0	1	5	-
<a href="#">29</a>	<a href="#">5.3</a>	<a href="#">Surface ground workings</a>	0	0	7	-	-
30	5.4	Underground workings	0	0	0	0	0
30	5.5	Historical Mineral Planning Areas	0	0	0	0	-
<a href="#">30</a>	<a href="#">5.6</a>	<a href="#">Non-coal mining</a>	1	0	4	2	7
<a href="#">32</a>	<a href="#">5.7</a>	<a href="#">Mining cavities</a>	0	0	1	4	5
32	5.8	JPB mining areas	None (within 0m)				
32	5.9	Coal mining	None (within 0m)				
33	5.10	Brine areas	None (within 0m)				
33	5.11	Gypsum areas	None (within 0m)				
33	5.12	Tin mining	None (within 0m)				
33	5.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<a href="#">34</a>	<a href="#">6.1</a>	<a href="#">Radon</a>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">35</a>	<a href="#">7.1</a>	<a href="#">BGS Estimated Background Soil Chemistry</a>	1	0	-	-	-
<a href="#">35</a>	<a href="#">7.2</a>	<a href="#">BGS Estimated Urban Soil Chemistry</a>	1	3	-	-	-
36	7.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
37	8.1	Underground railways (London)	0	0	0	-	-
37	8.2	Underground railways (Non-London)	0	0	0	-	-
37	8.3	Railway tunnels	0	0	0	-	-
37	8.4	Historical railway and tunnel features	0	0	0	-	-
37	8.5	Royal Mail tunnels	0	0	0	-	-
38	8.6	Historical railways	0	0	0	-	-
38	8.7	Railways	0	0	0	-	-
38	8.8	Crossrail 1	0	0	0	0	-



38	8.9	Crossrail 2	0	0	0	0	-
38	8.10	HS2	0	0	0	0	-



## Recent aerial photograph



Capture Date: 20/04/2015

Site Area: 0.05ha





## Recent site history - 2013 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2020. All Rights Reserved

Capture Date: 28/04/2013

Site Area: 0.05ha





## Recent site history - 1999 aerial photograph



Capture Date: 29/08/1999

Site Area: 0.05ha



## OS MasterMap site plan

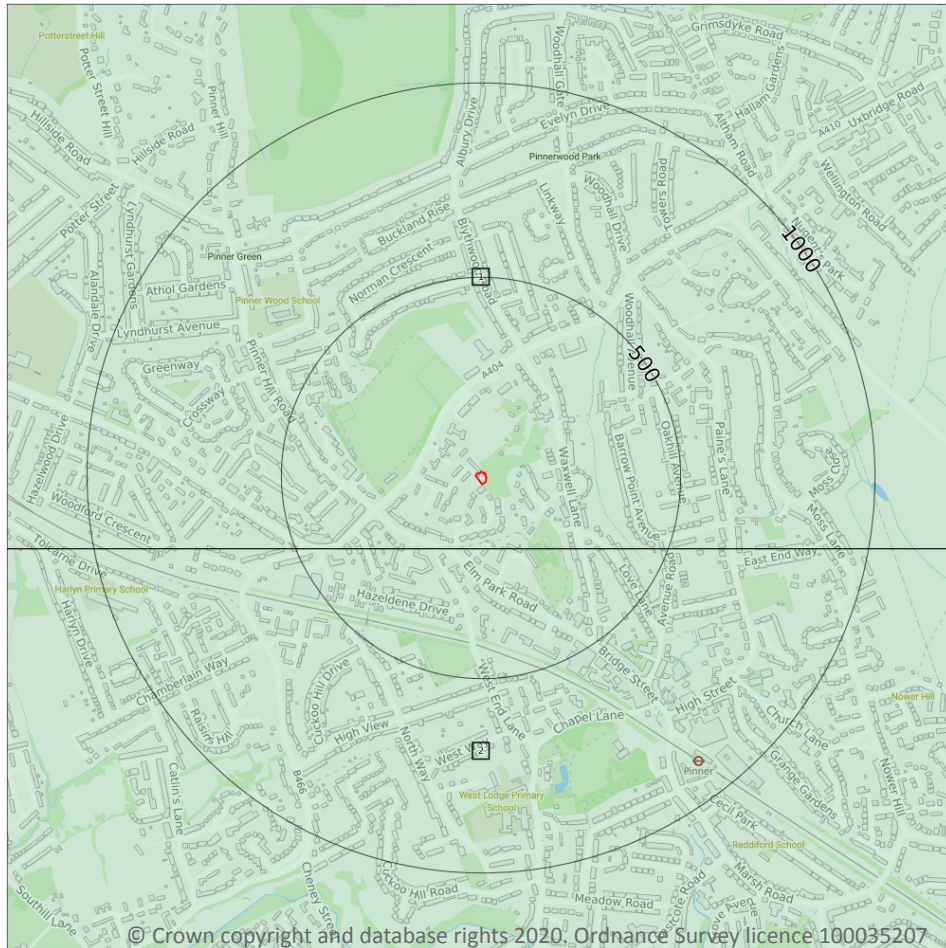


Site Area: 0.05ha





## 1 Geology 1:10,000 scale - Availability



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

### 1.1 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.

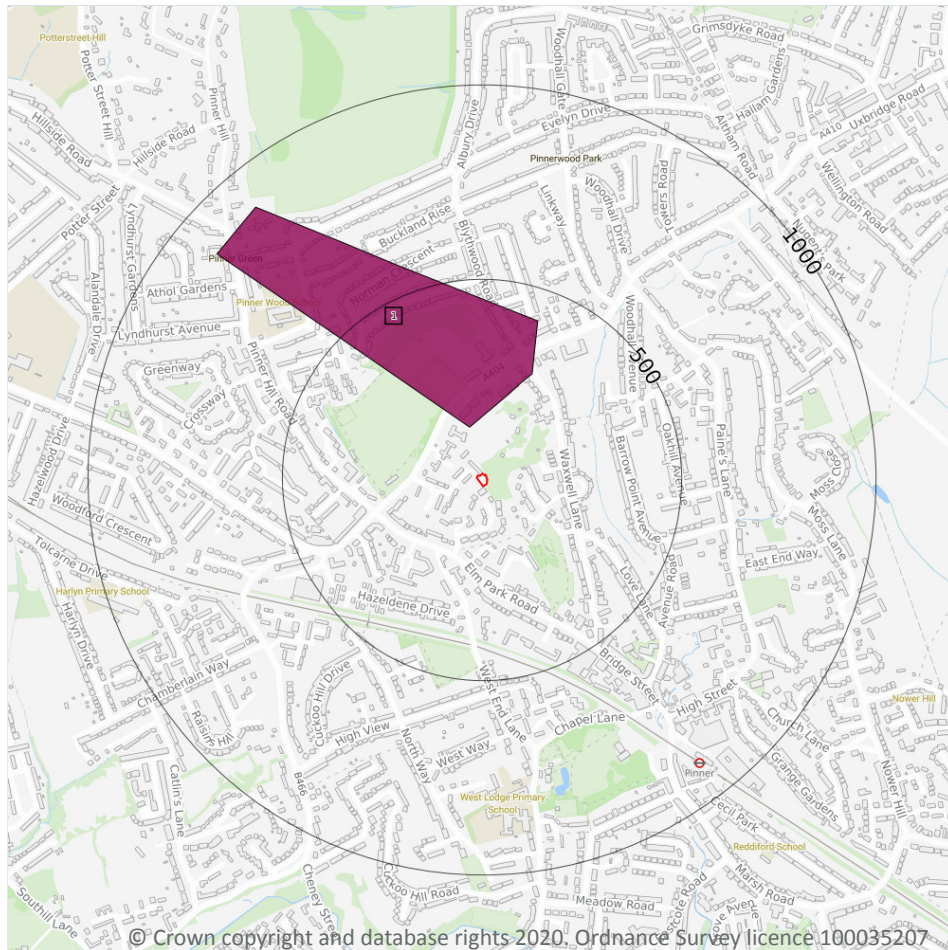
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 9**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TQ19SW
2	166m S	Full	Full	Full	No coverage	TQ18NW

*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

### 1.2 Artificial and made ground (10k)

Records within 500m

1

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

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

ID	Location	LEX Code	Description	Rock description
1	124m N	MGR-UKNOWN	Made Ground (Undivided)	Unknown/unclassified Entry

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Superficial

### 1.3 Superficial geology (10k)

Records within 500m

0

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.

*This data is sourced from the British Geological Survey.*

### 1.4 Landslip (10k)

Records within 500m

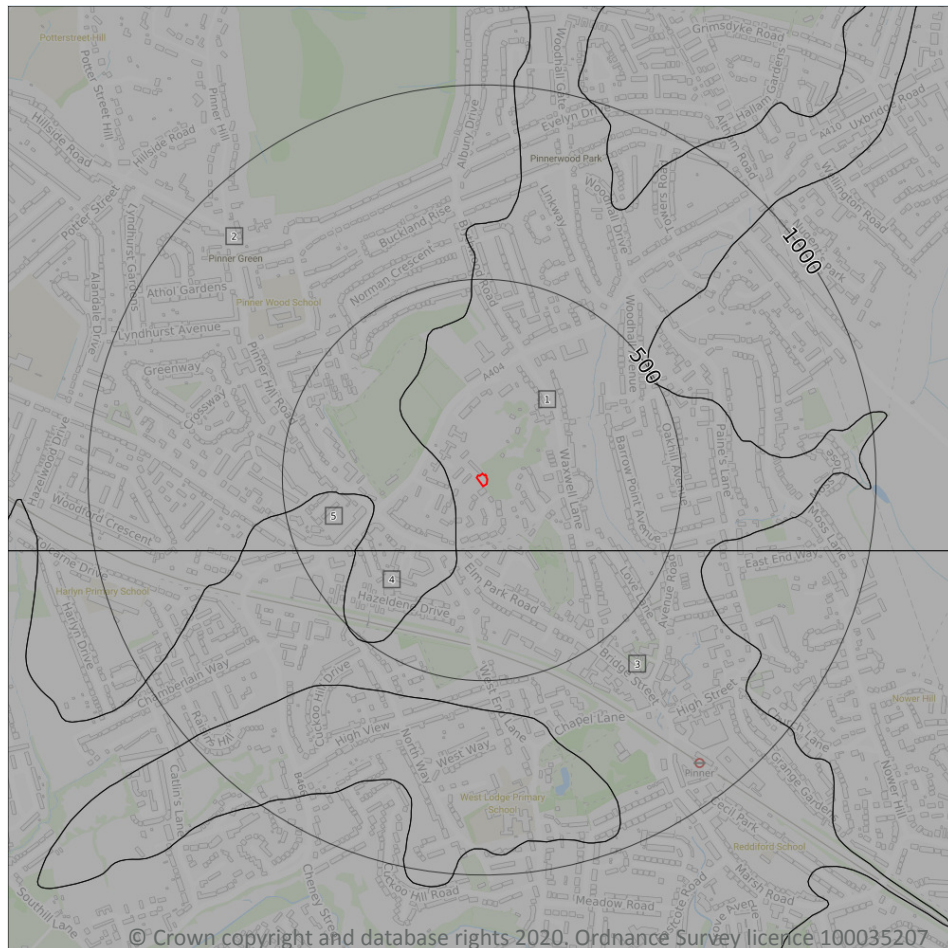
0

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

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Bedrock



**Site Outline**

Search buffers in metres (m)

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

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

### 1.5 Bedrock geology (10k)

Records within 500m

5

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 12**

ID	Location	LEX Code	Description	Rock age
1	On site	LMBE-SACL	Lambeth Group - Sandy Clay	Paleocene Epoch
2	71m W	LC-CLAY	London Clay Formation - Clay	Eocene Epoch
3	166m S	WRB-CLAY	Woolwich And Reading Beds Formation - Clay	Paleocene Epoch
4	180m SW	LC-CLAY	London Clay Formation - Clay	Eocene Epoch



ID	Location	LEX Code	Description	Rock age
5	274m W	LMBE-SACL	Lambeth Group - Sandy Clay	Paleocene Epoch

*This data is sourced from the British Geological Survey.*

## 1.6 Bedrock faults and other linear features (10k)

Records within 500m

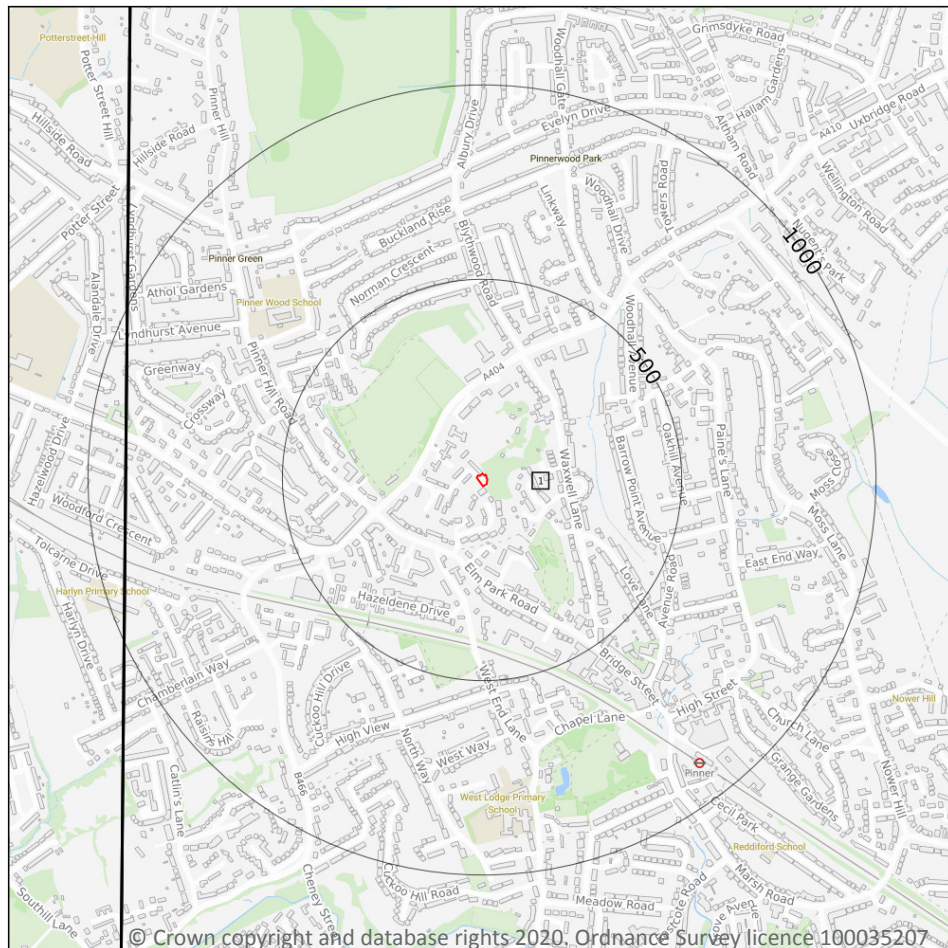
0

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.*



## 2 Geology 1:50,000 scale - Availability



— Site Outline  
Search buffers in metres (m)  
  
□ Geological map tile

### 2.1 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 14**

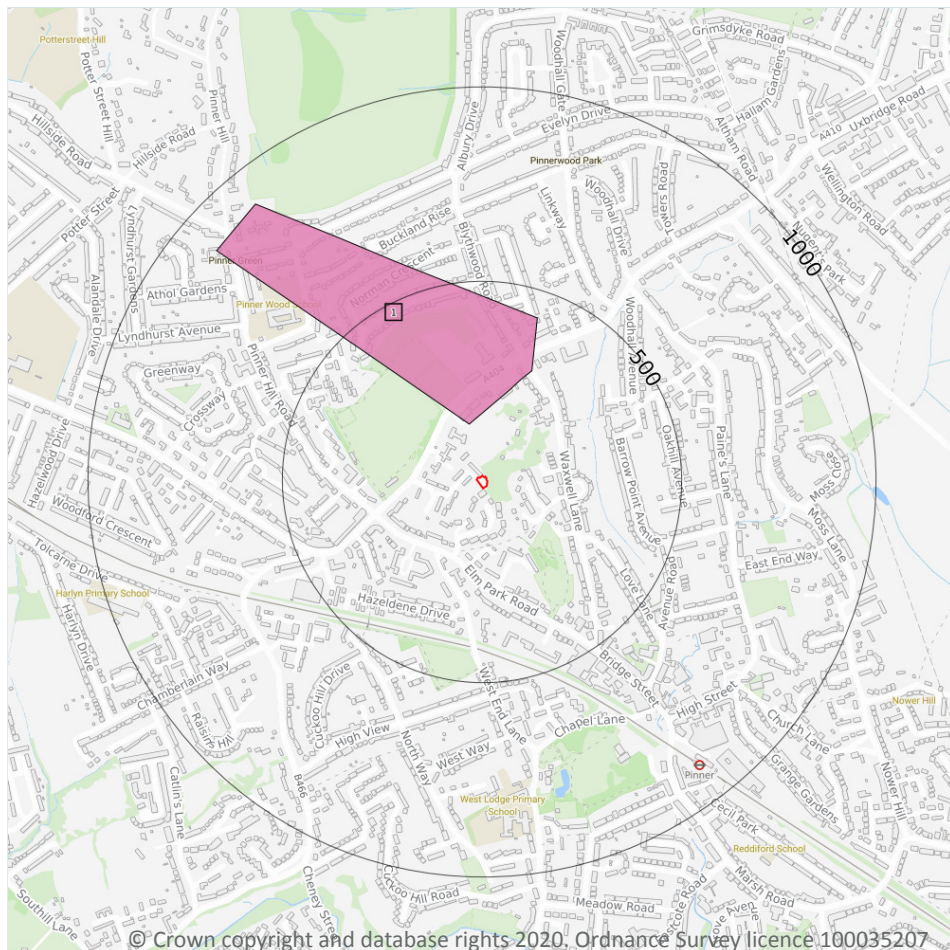
ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW256_north_london_v4

*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

### 2.2 Artificial and made ground (50k)

#### Records within 500m

1

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 15**

ID	Location	LEX Code	Description	Rock description
1	137m N	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

*This data is sourced from the British Geological Survey.*



## 2.3 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

### 2.4 Superficial geology (50k)

Records within 500m

0

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.

*This data is sourced from the British Geological Survey.*

### 2.5 Superficial 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 superficial deposits (the zone between the land surface and the water table).

*This data is sourced from the British Geological Survey.*

### 2.6 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.*

### 2.7 Landslip permeability (50k)

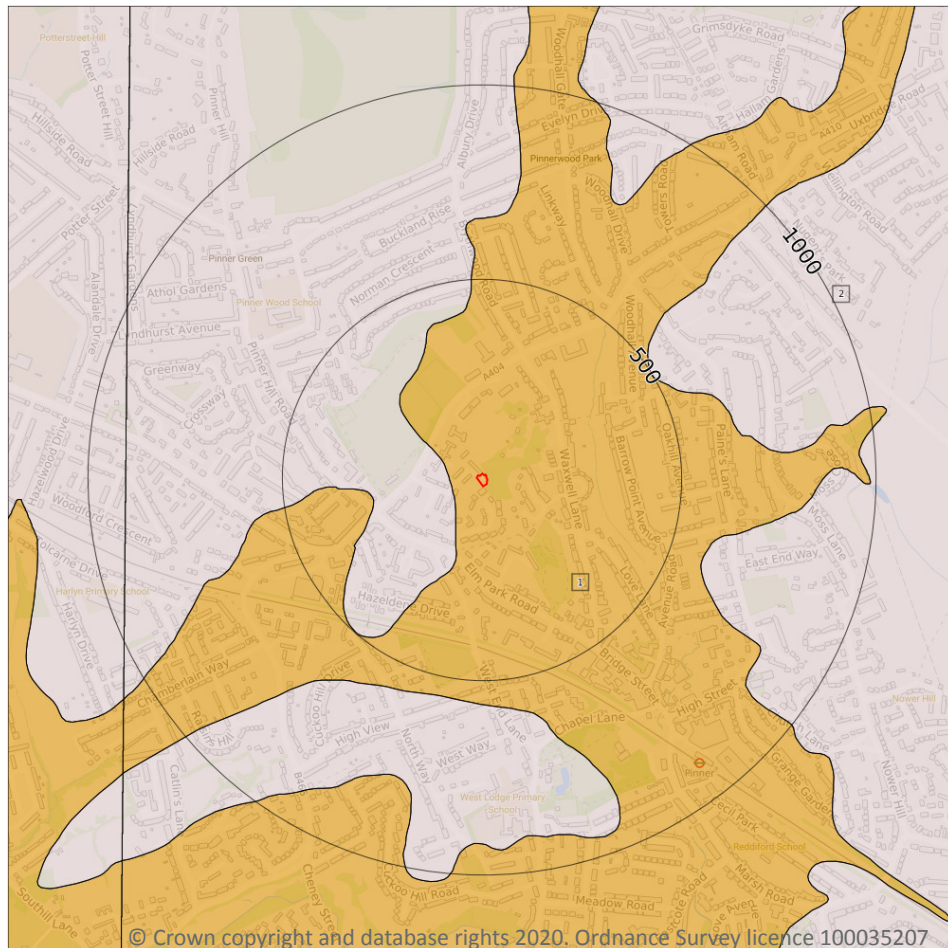
Records within 50m

0

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

*This data is sourced from the British Geological Survey.*

## Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

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

### 2.8 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 18**

ID	Location	LEX Code	Description	Rock age
1	On site	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN
2	68m W	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN

This data is sourced from the British Geological Survey.

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Moderate	Very Low

*This data is sourced from the British Geological Survey.*

## 2.10 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.*



## 3 Boreholes

### 3.1 BGS Boreholes

Records within 250m

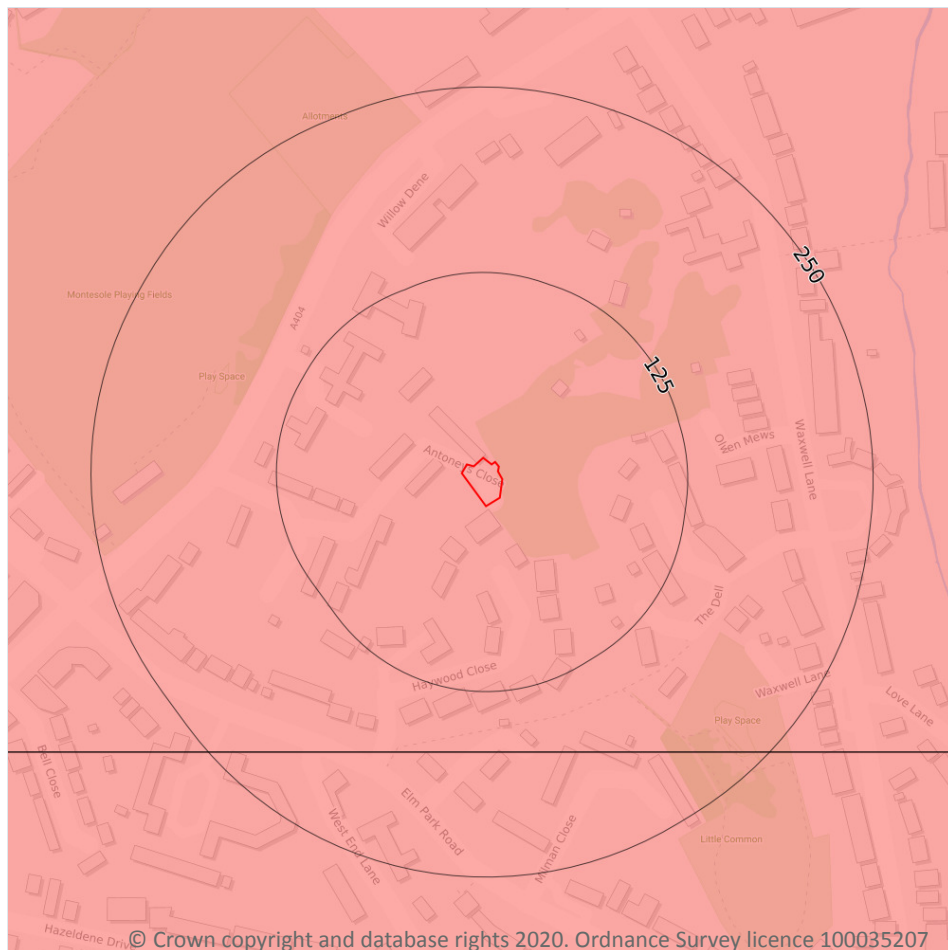
0

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.

*This data is sourced from the British Geological Survey.*



## 4 Natural ground subsidence - Shrink swell clays



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

### 4.1 Shrink swell clays

#### Records within 50m

1

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 21**

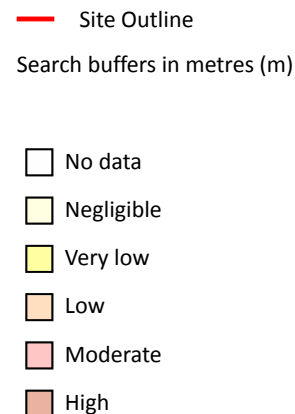
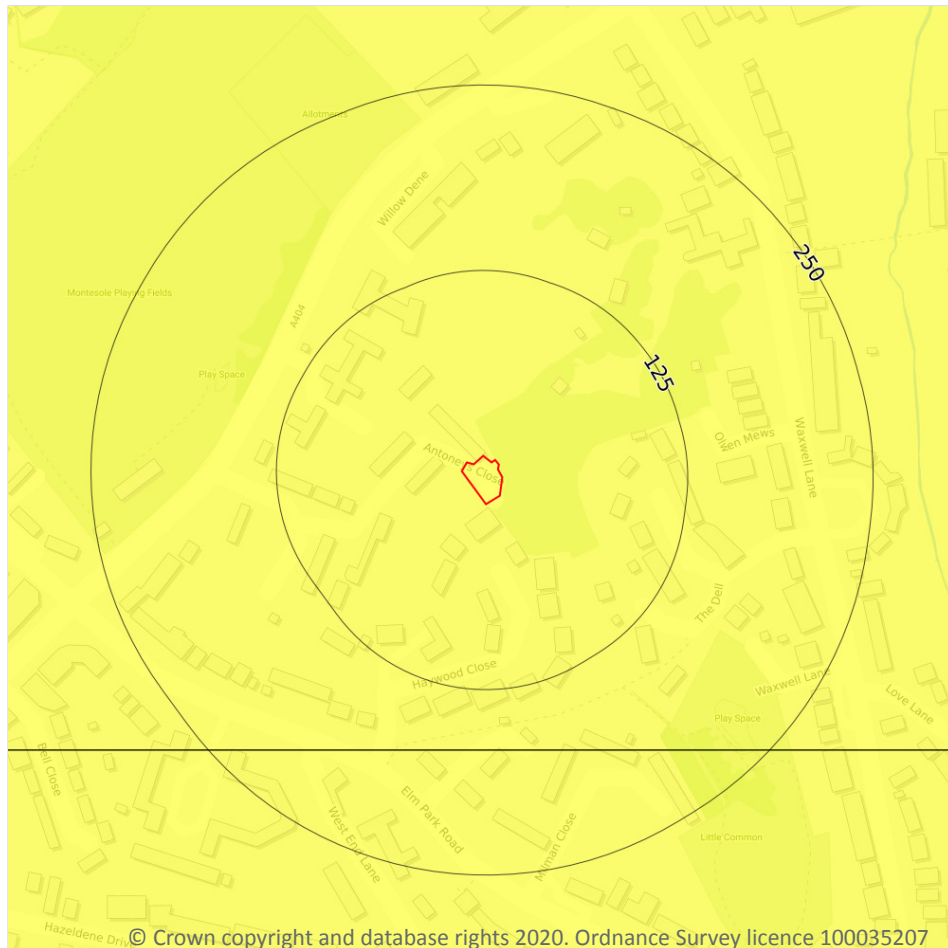
Location	Hazard rating	Details
On site	Moderate	Ground conditions predominantly high plasticity.

*This data is sourced from the British Geological Survey.*





## Natural ground subsidence - Running sands



### 4.2 Running sands

#### Records within 50m

1

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.

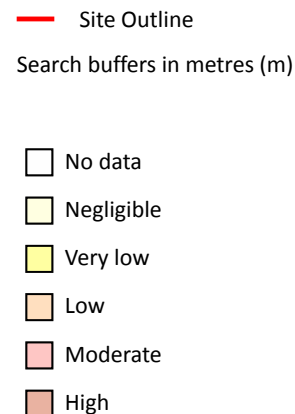
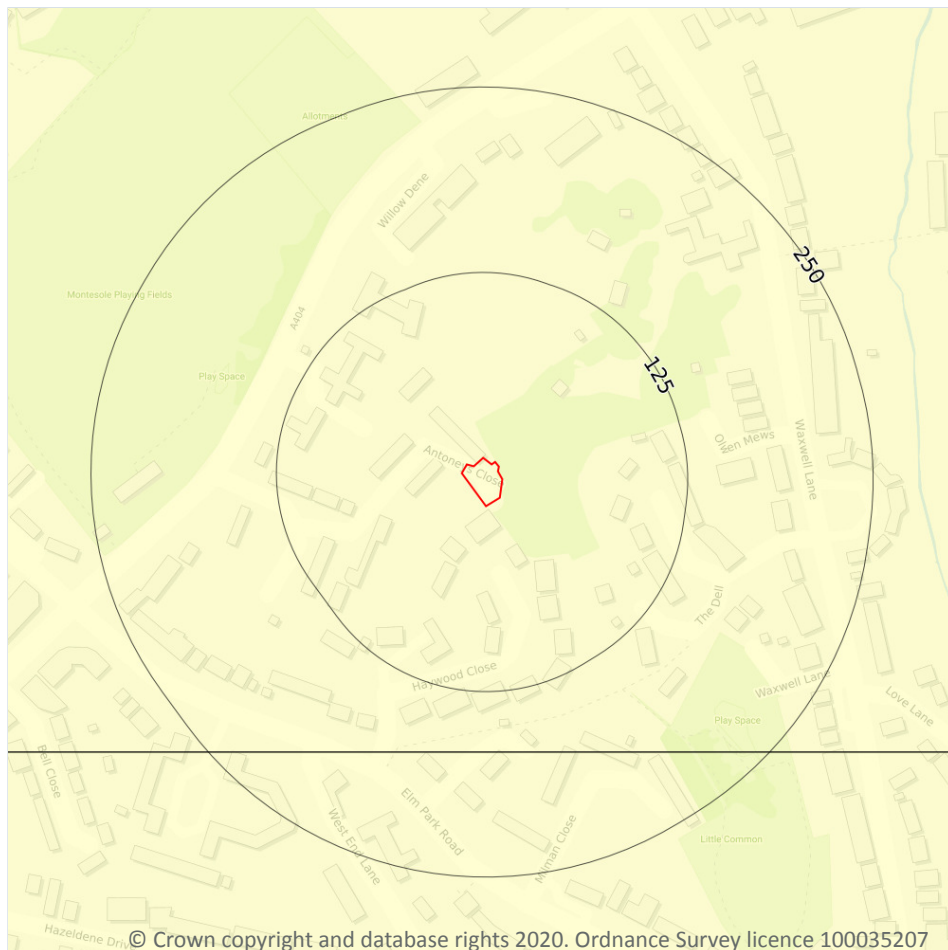
Features are displayed on the Natural ground subsidence - Running sands map on **page 22**

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

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Compressible deposits



### 4.3 Compressible deposits

#### Records within 50m

1

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

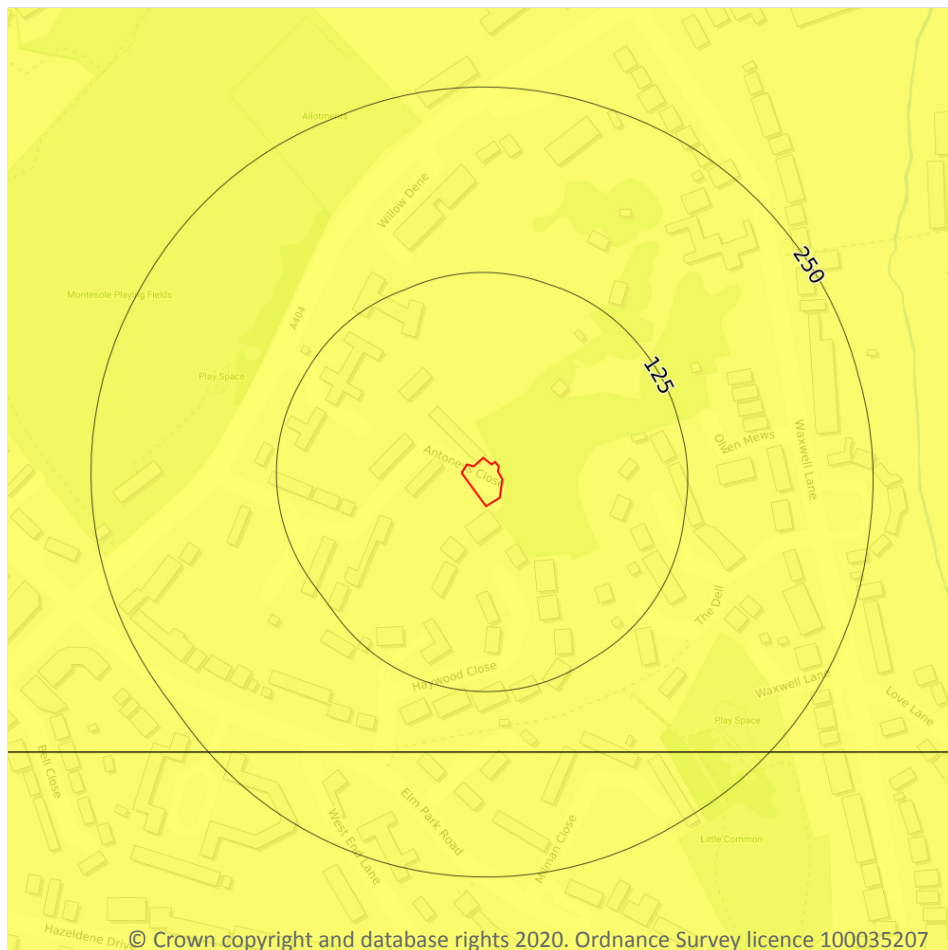
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 23**

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

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Collapsible deposits



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

### 4.4 Collapsible deposits

#### Records within 50m

1

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

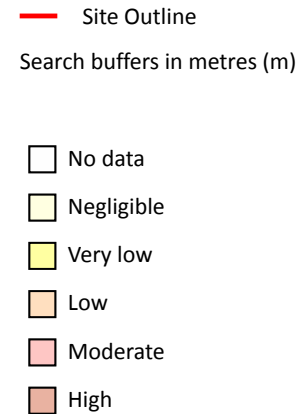
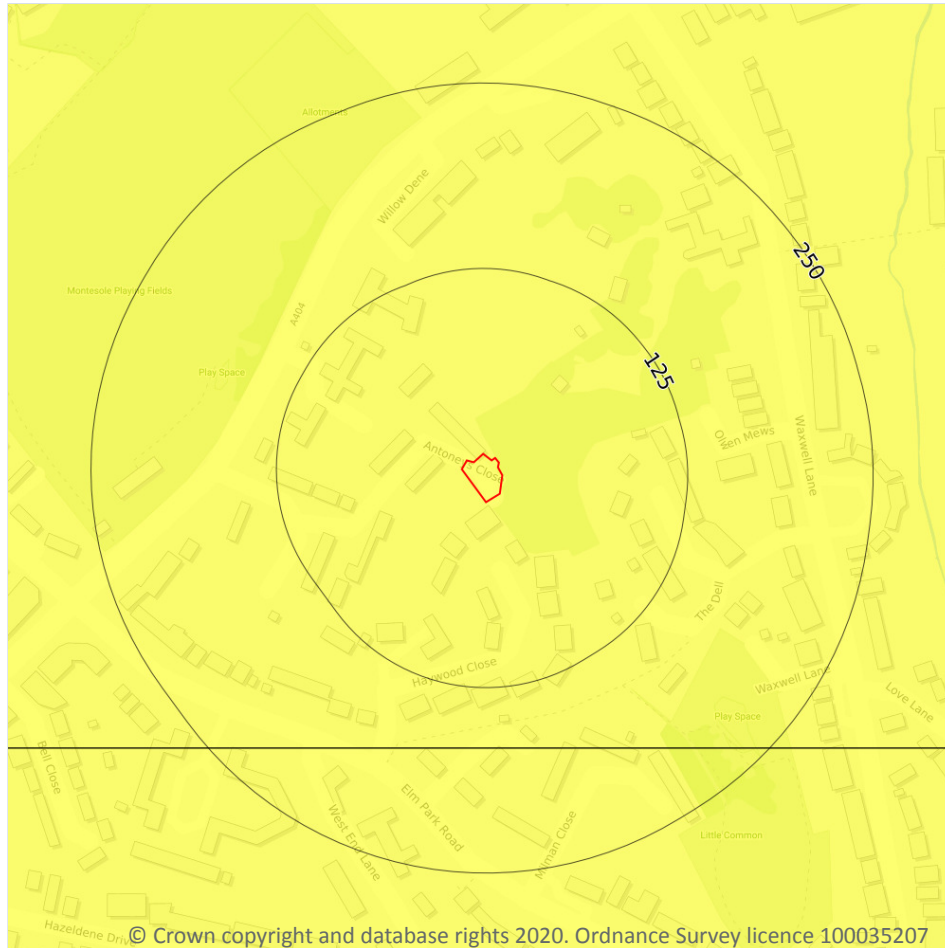
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 24**

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

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Landslides



### 4.5 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 25**

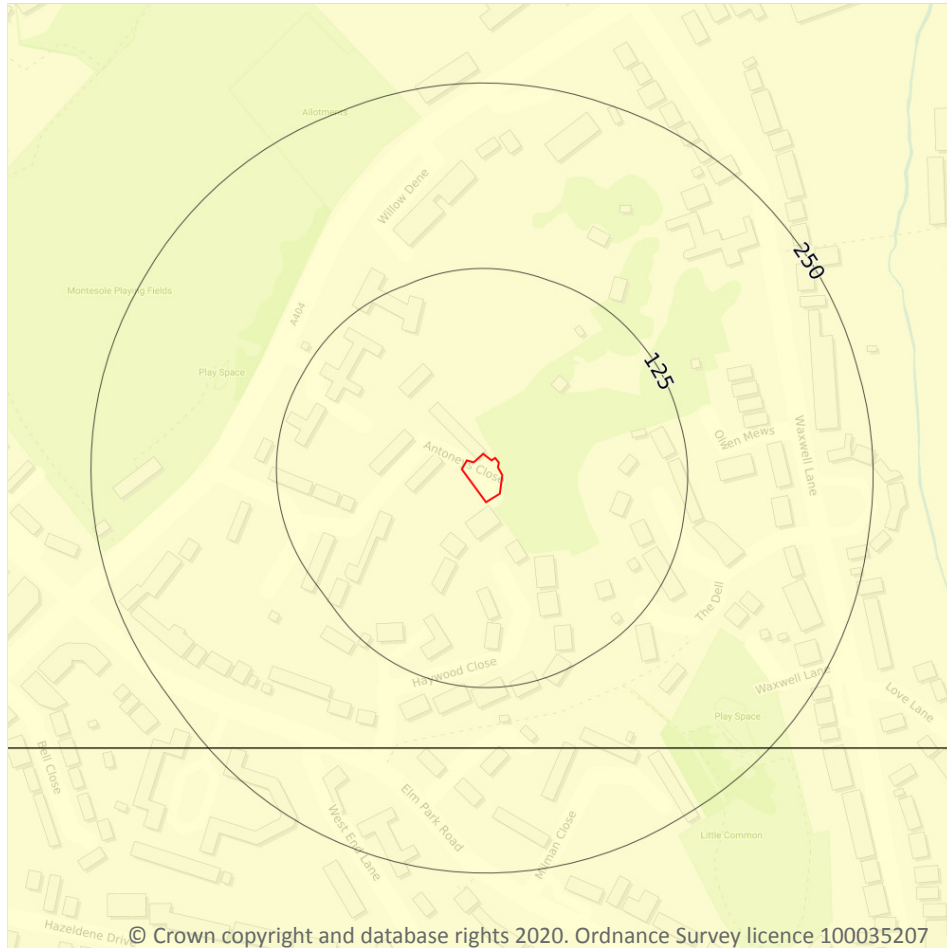
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

*This data is sourced from the British Geological Survey.*





## Natural ground subsidence - Ground dissolution of soluble rocks



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

### 4.6 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.

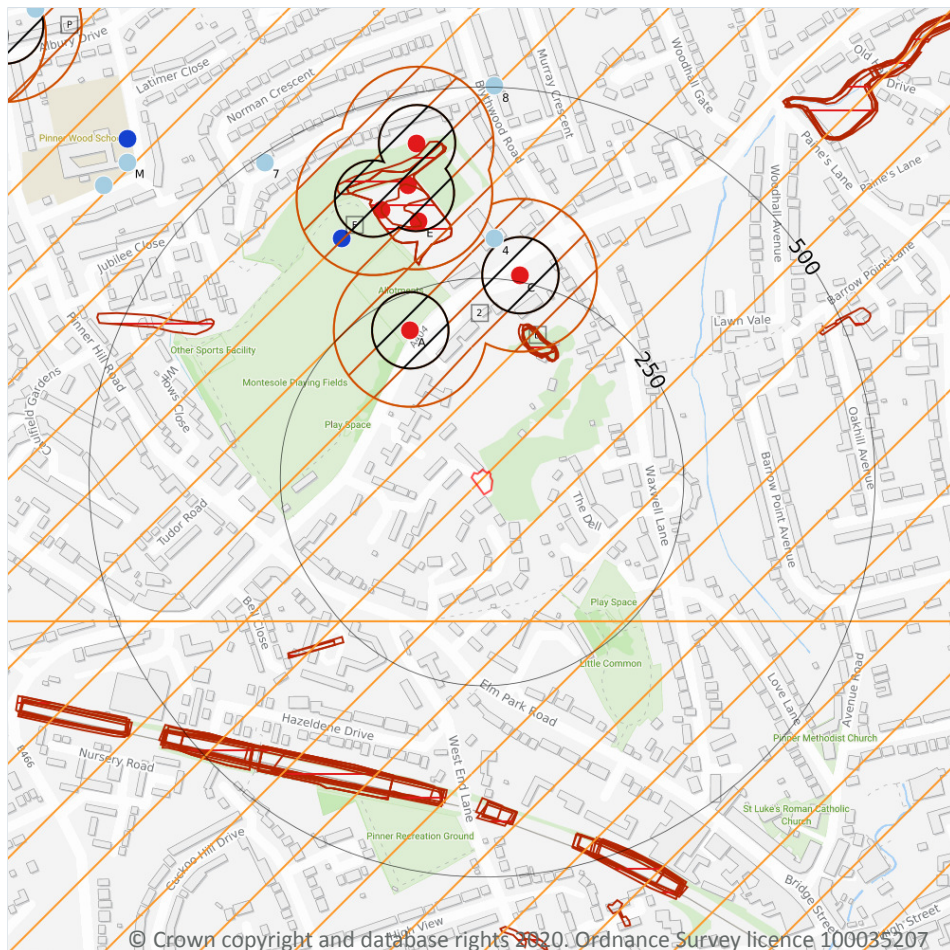
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 26**

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.*



## 5 Mining, ground workings and natural cavities



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

### 5.1 Natural cavities

#### Records within 500m

1

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 27**

ID	Location	Details	Source
F	351m NW	Type: Solution Pipe x 4 Superficial Geology: Worked Ground Bedrock Geology: Chalk Group, Lambeth Group, London Clay Formation	Simple Bibliography: - Full Bibliography: EDMONDS, C.N., The engineering geomorphology of karst development and the prediction of subsidence risk upon the chalk outcrop in England. Unpublished PhD thesis, University of London., , 1987; Confidentiality: Data source can be revealed, data can be used freely

*This data is sourced from Peter Brett Associates (PBA).*

## 5.2 BritPits

<b>Records within 500m</b>	<b>6</b>
----------------------------	----------

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 27**

ID	Location	Details	Description
A	203m NW	Name: Pinner Chalk Mine Address: PINNER, Middlesex Commodity: Chalk Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
C	258m N	Name: Uxbridge Road Chalk Mine Address: PINNER, Middlesex Commodity: Chalk Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
E	335m N	Name: Pinner Sand Pits Address: PINNER, Middlesex Commodity: Sand Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

ID	Location	Details	Description
E	364m N	Name: Pinner Chalk Mines Address: PINNER, Middlesex Commodity: Chalk Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
E	384m N	Name: Pinner Chalk Mines Address: PINNER, Middlesex Commodity: Chalk Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
E	434m N	Name: Pinner Chalk Mines Address: PINNER, Middlesex Commodity: Chalk Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

*This data is sourced from the British Geological Survey.*

## 5.3 Surface ground workings

### Records within 250m

7

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 27**

ID	Location	Land Use	Year of mapping	Mapping scale
B	164m NE	Unspecified Pit	1959	1:10560
B	164m N	Pond	1913	1:10560
B	165m NE	Unspecified Pit	1938	1:10560
B	165m NE	Pond	1911	1:10560
B	166m NE	Pond	1911	1:10560
B	168m NE	Unspecified Pit	1935	1:10560
B	168m NE	Unspecified Pit	1935	1:10560

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





## 5.4 Underground workings

### Records within 1000m

**0**

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

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

## 5.5 Historical Mineral Planning Areas

### Records within 500m

**0**

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

*This data is sourced from the British Geological Survey.*

## 5.6 Non-coal mining

### Records within 1000m

**14**

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 27**

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Chalk	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
2	104m NW	Not available	Chalk	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
A	154m NW	Not available	Chalk	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
3	166m S	Not available	Chalk	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered



ID	Location	Name	Commodity	Class	Likelihood
C	209m N	Not available	Chalk	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
E	272m N	Pinner Chalk Mine	Chalk	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
E	322m N	Pinner Chalk Mine	Chalk	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
P	747m NW	Not available	Chalk	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
Q	773m NW	Not available	Chalk	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
R	795m NW	Not available	Chalk	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
P	797m NW	Not available	Chalk	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
-	823m NW	Not available	Chalk	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
-	838m NW	Not available	Chalk	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
-	934m NW	Not available	Chalk	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered

*This data is sourced from the British Geological Survey.*



## 5.7 Mining cavities

### Records within 1000m

**10**

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 27**

ID	Location	Mine Address	Mineral	Data source	Publisher
A	219m NW	'Uxbridge Road Mine' (2), Pinner,	Chalk	-	Chelsea Speleological Society
4	302m N	Pinner,	Chalk	-	-
F	352m NW	'Uxbridge Road Mine' (1), Pinner,	Chalk	-	Chelsea Speleological Society
E	410m N	'The Dingle/pinner Mine' (1), Pinner,	Chalk	-	-
7	490m NW	'The Dingle/pinner Mine' (3), Pinner,	Chalk	-	-
8	502m N	'The Dingle/pinner Mine' (2), Pinner,	Chalk	-	-
M	609m NW	Pinner Wood School, Pinner, Greater London	Chalk	-	-
M	613m NW	Pinner, Greater London	Chalk	-	-
P	834m NW	'Pinner Hill Road Mine', Pinner,	Chalk	-	Chelsea Speleological Society
-	906m NW	'Pinner Hill Farm Mine', Pinner,	Chalk	-	Chelsea Speleological Society

*This data is sourced from Peter Brett Associates (PBA).*

## 5.8 JPB mining areas

### Records on site

**0**

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

*This data is sourced from Johnson Poole and Bloomer.*

## 5.9 Coal mining

### Records on site

**0**

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

*This data is sourced from the Coal Authority.*



## 5.10 Brine areas

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

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

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

## 5.11 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

## 5.12 Tin mining

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

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Mining Searches UK.*

## 5.13 Clay mining

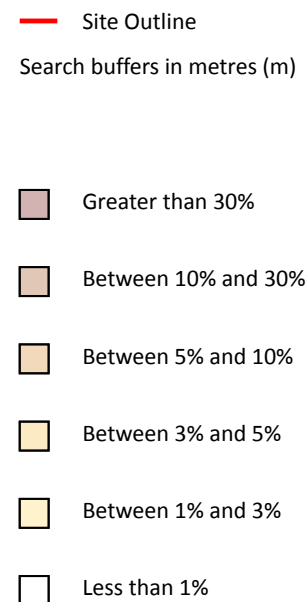
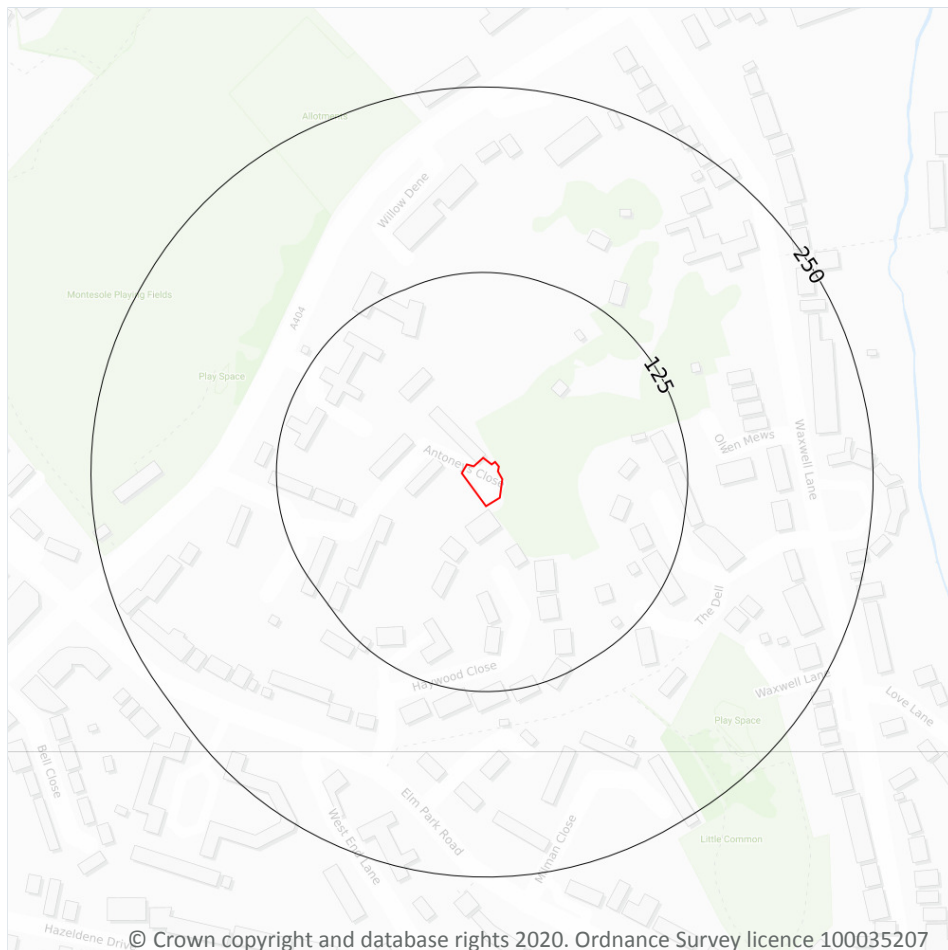
Records on site	0
-----------------	---

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

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



## 6 Radon



### 6.1 Radon

#### Records on site

1

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

Features are displayed on the Radon map on **page 34**

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

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



## 7 Soil chemistry

### 7.1 BGS Estimated Background Soil Chemistry

Records within 50m

1

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<sup>2</sup>. 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<sup>2</sup>; 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	No data	No data	No data	No data	No data	No data	No data

*This data is sourced from the British Geological Survey.*

### 7.2 BGS Estimated Urban Soil Chemistry

Records within 50m

4

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<sup>2</sup>).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	14	2.5	93	64	-	75	54	25	6
2m NW	14	2.5	85	58	-	75	61	24	6
3m SE	14	2.5	113	78	-	77	51	29	7
9m NE	15	2.6	113	78	-	78	57	30	7

*This data is sourced from the British Geological Survey.*



## 7.3 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<sup>2</sup>.

*This data is sourced from the British Geological Survey.*



## 8 Railway infrastructure and projects

### 8.1 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.*

### 8.2 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.*

### 8.3 Railway tunnels

**Records within 250m****0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

### 8.4 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.*

### 8.5 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.*

## 8.6 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.*

## 8.7 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.*

## 8.8 Crossrail 1

**Records within 500m**

**0**

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

*This data is sourced from publicly available information by Groundsure.*

## 8.9 Crossrail 2

**Records within 500m**

**0**

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

*This data is sourced from publicly available information by Groundsure.*

## 8.10 HS2

**Records within 500m**

**0**

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

*This data is sourced from HS2 Ltd.*



## Data providers

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

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