

Pinewood Close, Harrow

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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

LA20007 CL 002

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 on Pinewood, Close in Harrow and comprises a row of garage/lock-ups 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'¹. and Environment Agency Guidance on Requirements for Land Contamination Reports².

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 domestic lock-ups/garages, 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.

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

² 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 single row of garages/lock-up's along the site western boundary and a large paved area. The site is located at the end of Pinewood Close. The site slopes gently towards the south.		
Grid Reference	513616 191704	Location	The site is located in a suburb of Harrow, approximately 3.7km to the north west of Harrow town centre.
Elevation (approx)	75m AOD		
Size (approx)	0.07ha		

Table Two: Site Location and Setting

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Figure One: Site Location Map

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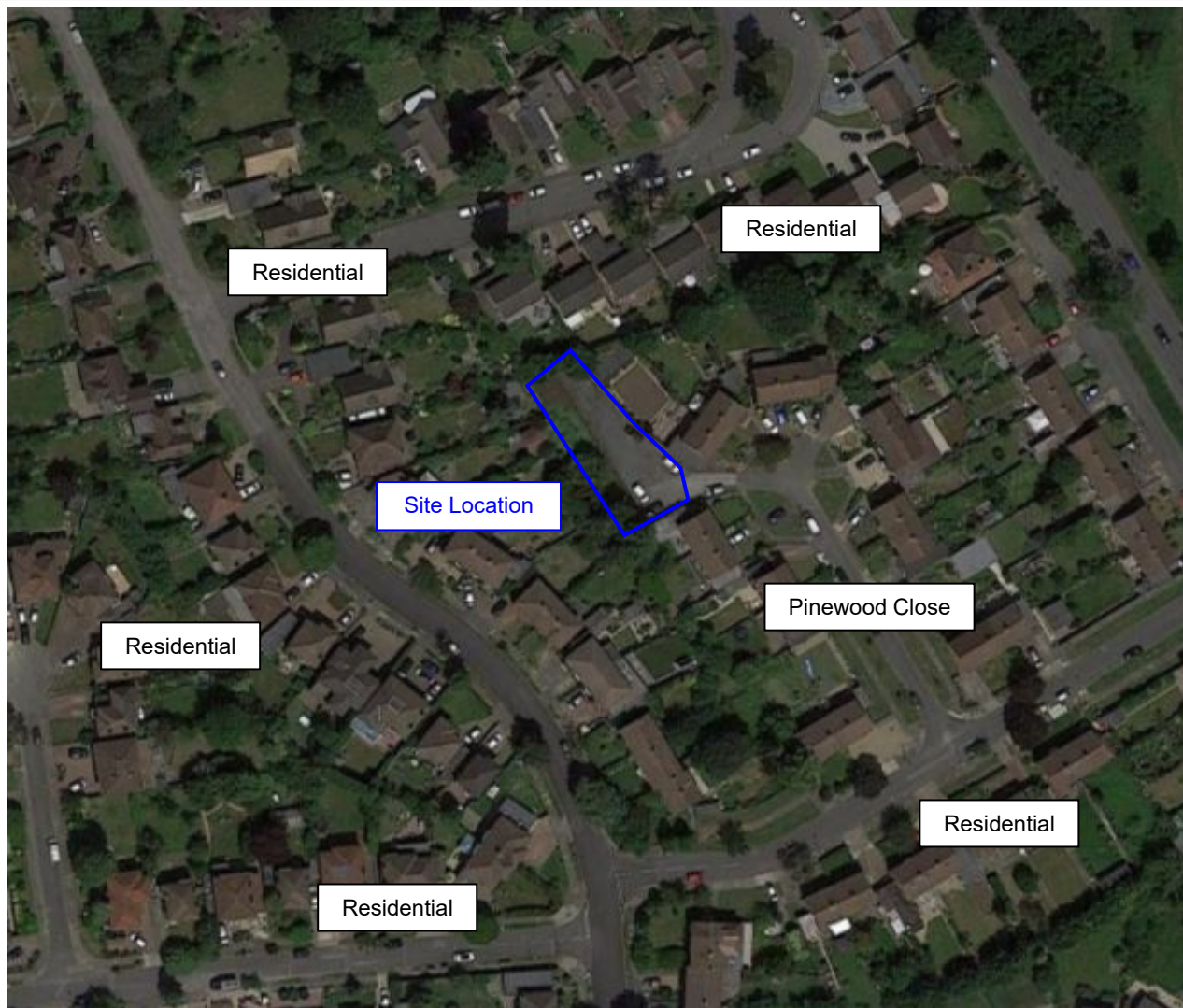


Figure Two: Aerial Photograph Showing Site and Surrounding Area

Direction	Details
North	There are residential properties located within 10m of the northern site boundary
East	There are residential properties located within 5m of the eastern site boundary
South	There are residential properties located within 5m of the southern site boundary
West	There are residential properties located within 10m 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	London Clay Formation	Blue-grey or grey-brown clay.	~20m	
	Seafood Chalk Formation And Newhaven Chalk Formation (undifferentiated)	Chalk	>100m	
Nearby Borehole Records	The BGS hold records for a borehole constructed ~600m to the south of the site (BGS ref. TQ19SW87). This records underlying geology to comprise brown grey clay to 19.5m depth (London Clay Formation) overlying chalk with flints (Seafood Chalk Formation And Newhaven Chalk Formation) to the maximum drilled depth of 83m.			

Table Four: Regional Geology

	Geological Unit	Environment Agency Aquifer Classification	Data Source
Drift Geology	None described at the site's localities		Environment Agency
Solid Geology	London Clay Formation	Unproductive Stratum	
	Seafood Chalk Formation And Newhaven Chalk Formation	Principal Aquifer	
Nearby Borehole Records	The BGS borehole referenced above recorded at-rest groundwater at 33.9m below ground level, within the chalk.		BGS

Table Five: Regional Hydrogeology

	Description	Distance	Direction	Data Source
Surface Water Features	Land Drain (possible flow to the south towards River Pinn - see below)	~110m	North East	Ordnance Survey
	River Pinn (Flow from east to west)	~330m	South	

Table Six: Regional Hydrology

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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

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) 1877 (1:2,500 Scale)	The site is unused. There is a small land drain located 40m to the south west and a road located 100m to the east.	None identified	None identified
1896 / 1898 1913 (1:2,500 Scale)	The site remains unused. There are residential properties (possible farms?) located 120 to the north. No other significant changes noted elsewhere.		
1935 (1:2,500 Scale) 1938 (1:10,560 Scale)	The site remains unused. There is a path/track located along the northern site boundary orientated east to west. There are tennis courts 175m to the west and residential properties 300m to the south and south west.		
1960 (1:10,000 Scale) 1963 (1:1,250 Scale)	The site has been developed into its present day layout, comprising a single row of garage/lock-ups along the sites western boundary. Nearby there are now residential properties located within 10m of the eastern, southern and western site boundary, like the present day layout. There is woodland located to the immediate north.	Potential storage of oils/lubricants for domestic purposes, although risk posed by this activity is considered very low.	

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Date	Review of Map – Description of Land Use at Site and in the Immediate Surrounding Area	Potentially Contaminative Land-use	
		On-site	Off-site
1972 / 1992 (1:1,250 Scale)	The site is unchanged. The woodland located to the north has been replaced with residential housing.	Potential storage of oils/lubricants for domestic purposes, although risk posed by this activity is considered very low.	None identified

Copies of representative historical maps are included as Attachment Two

Table Eight: Historical Maps Review

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 ⁻³ (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

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Risk	Description	Data Source
Degradable Material within Made Ground	Although the site has been developed, the garage/lock-ups are relatively small and we do not anticipate significant thickness of Made Ground to be associated with these structures.	Historic Mapping
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. Although there may have been potential storage of oils/lubricants for domestic purposes in the garage/lock-ups, we consider that this represents a very low risk of impacting underlying soils.	Historic Maps/ Ordnance Survey
Natural Deposits (e.g. Coal measure strata).	No viable source identified. Our geological review indicates surface geology comprises London Clay Formation, 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 was a land drain located 40m to the south west in the late 1890's and an existing land drain located 110m to the north east, the presence of low permeability London Clay Formation, present from near surface will inhibit lateral migration of potentially hazardous ground gases associated with these features,.	Historic Mapping
Conclusions	<p>We have not identified potentially viable hazardous ground gas sources and/or linkages 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 are no records of underground working, surface working and/or non-coal mining activities within 250m of the site.	Groundsure Report
Solution Feature Risk	<p>The site's location has been classified as 'Negligible Hazard' for risks associated with ground dissolution of soluble rocks</p> <p>This classification indicates the soluble rocks present at considerable depth beneath the site (Chalk is expected to be >20m depth) are not prone to dissolution at this location.</p>	

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Risk	Description	Data Source
Shrinking or Swelling Clay	<p>The site's location has been classified as 'Moderate Hazard' for risks associated shrinking or swelling clays.</p> <p>We consider this classification is associated with the underlying London Clay Formation, which are likely to be predominantly comprised of high plasticity soils.</p>	Groundsure Report
Compressible Deposits	<p>The site's location has been classified as 'Negligible Hazard' for risks associated with compressible deposits.</p> <p>We consider this classification is associated with the underlying London Clay Formation. 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 London Clay Formation beneath the site.</p>	
Collapsible Deposits	<p>The site's location has been classified as 'Very Low Hazard' for risks associated with collapsible deposits.</p> <p>We consider this classification is associated with the underlying London Clay Formation. This classification indicates deposits with potential to collapse when loaded and saturated are unlikely to be present within the London Clay Formation beneath the site.</p>	
Running Sands	<p>The site's location has been classified as 'Very Low Hazard' for risks associated with running sand.</p> <p>We consider this classification is associated with the underlying London Clay Formation. This classification indicates there is a very low potential for running sand problems within the London Clay Formation beneath the site.</p>	
Landslides	<p>The site's location has been classified as 'Very Low Hazard' for risks associated with landslides.</p> <p>We consider this classification is associated with the underlying London Clay Formation. This classification indicates slope instability problems within the London Clay Formation are unlikely to be present at the site.</p>	

Table Twelve: Other Geological Hazards

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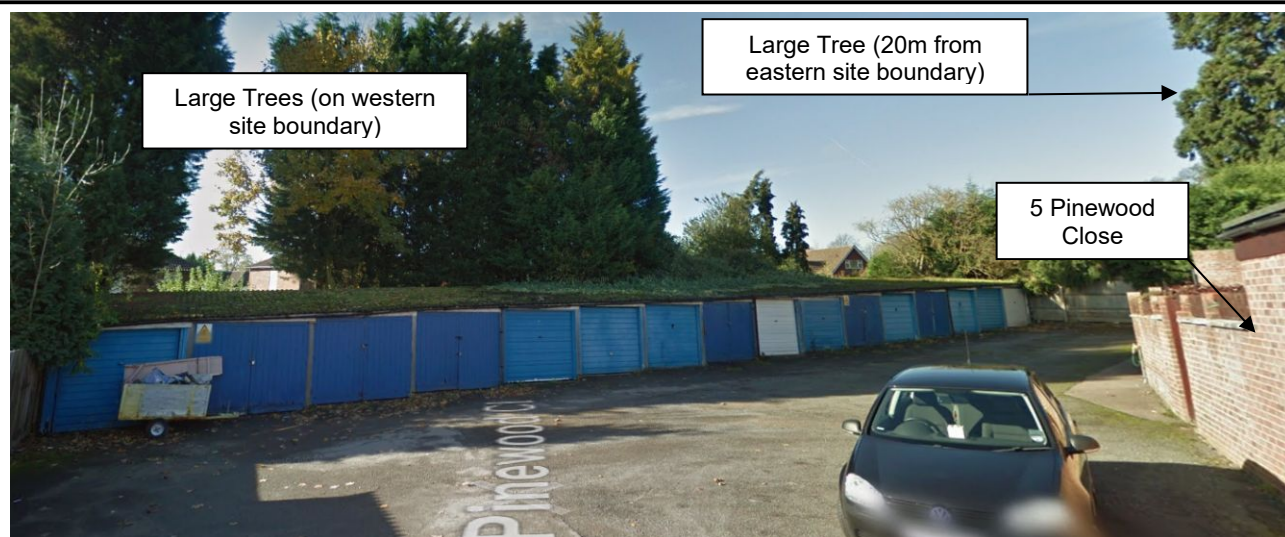
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3 Site Photographs

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 in November 2012



Photograph One: Overhead image of the site in early 2020

Note: Images collected from Google Streetview 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
<p>Our historic review indicates the site was unused prior to its use as domestic garages/lock-ups since the early 1960s.</p> <p>Although there may have been potential storage of oils/lubricants for domestic purposes in the garage/lock-ups, we consider this represents a very low risk, especially as the internal flooring is likely to be constructed from concrete which would act as a physical barrier from any surface spills.</p>	Ingestion and dermal contact	Future residents	Unlikely - Risks from domestic garage/locks-ups considered very very low as the internal flooring is likely to be constructed from concrete which would act as a physical barrier to underlying soils from any small surface spills.
	Permeation of volatile contaminants into drinking water supply service pipes		Unlikely - Risks from domestic garage/locks-ups considered very very low as the internal flooring is likely to be constructed from concrete which would act as a physical barrier to underlying soils from any small surface spills.
	Volatilisation of hydrocarbons to indoor/outdoor air (either direct from soils or dissolved in groundwater)		Unlikely - Risks from domestic garage/locks-ups considered very very low as the internal flooring is likely to be constructed from concrete which would act as a physical barrier to underlying soils from any low-level surface spills.
	Off-site migration of hydrocarbons: volatilisation to indoor/outdoor air (vapours from on-site soils or via lateral migration of dissolved compounds)	Neighbouring residents (<5m in all directions)	Unlikely - Risks from domestic garage/locks-ups considered very very low as the internal flooring is likely to be constructed from concrete which would act as a physical barrier to underlying soils from any low-level surface spills.
	Downward migration of contaminants to groundwater.	London Clay Formation (unproductive Aquifer)	No - No viable receptor identified.
	Off-site migration of contaminants dissolved in groundwater leading to direct impact of environmental receptors.	Land drain (110m North East)	No - No viable pathway identified.

Table Thirteen: Conceptual Site Model

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5 Conclusions and Recommendations

5.1 Environmental Conclusions

Site Details	<p>The site comprises a plot of domestic garages/lock-ups since the early 1960s, 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 environmental sensitivity.</p> <p>Geology maps indicate underlying geology comprises London Clay Formation which typically comprises stiff grey to grey blue clay. The Environment Agency classify this geological unit as an Unproductive Aquifer and is therefore unlikely to contain significant qualities of groundwater. A nearby borehole record identified clay to 19.5m (London Clay Formation), overlying chalk to 83m depth, no groundwater was present in the London Clay Formation and at-rest water levels were present at 33.9m below ground level within the chalk.</p> <p>The nearest surface water feature is a land drain located 110m north east. There are no surface water or groundwater abstractions located within 1km and the site is not located in a Source Protection Zone.</p>
Review of Site History and Potential Contaminant Sources	<p>Our historic review indicates the site was unused prior to its use as domestic garages/lock-ups since the early 1960s.</p> <p>Although there may have been potential storage of oils/lubricants for domestic purposes in the garage/lock-ups, we consider this represents a very low risk, especially as the internal flooring is likely to be constructed from concrete which would act as a physical barrier to underlying soils from any small surface spills.</p>
Conclusions	<p>Based on the results of our desk-top review, we have not identified any significant source of contamination. 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 London Clay Formation which typically comprises stiff grey to grey blue clay. The Environment Agency classify this geological unit as an Unproductive Aquifer and is therefore unlikely to contain significant qualities of groundwater. A nearby borehole record identified clay to 19.5m (London Clay Formation), overlying chalk to 83m depth, no groundwater was present in the London Clay Formation and at-rest water levels were present at 33.9m below ground level within the chalk.</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>
Existing Foundations	<p>We consider it likely the existing garage/lock-up's have raft foundations (although this would need to be verified on site).</p>
Trees	<p>The photographs taken of the site in 2012 and 2020 show the presence of a number of mature trees along/near to the western site boundary and a single mature tree 20m to the east. Given the soils beneath the site are likely to be of high plasticity, the presence of the tree is 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>The London Clay Formation is 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>Should Made Ground and/or soft regions of clay, 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 or non-hazardous 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>
Unexploded Ordnance (UXO)	<p>The site is classified by Zetica interactive mapping as being located in an area of Greater London with low bombing density. We understand that our client has commissioned a third-party a preliminary UXO risk assessment for the site.</p>
Presence of Unrecorded Buried Obstructions	<p>Prior to the construction of the existing garage/lock-up's the site was undeveloped but contained a pond in the southern portion. There is potentially buried obstructions present beneath the site associated with this in-filling of this pond.</p>

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Excavations and Ground Water	<p>The London Clay Formation's classification as an Unproductive Aquifer. In a nearby borehole, groundwater was not encountered in the London Clay Formation, but at 33.9m below ground level within the chalk. The data indicates de-watering of shallow excavations is unlikely to be required.</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	<p>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.</p>
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. 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>
Pre-demolition Asbestos	<p>We recommend an asbestos survey of the garage/lock-up's be undertaken prior to demolition in order to determine whether asbestos containing materials are present and, if so, to determine a suitable remedial strategy for their removal. We recommend that surveying and any removal/remediation is completed by a specialist contractor.</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	LA20007 CL 002
		Date	March 2020
		Page	17

Pinewood Close, Harrow

SUBADRA

Environmental - Geotechnical - Laboratory - Foundations

13 Triangle Business Park, Wendover Road
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**ATTACHMENT ONE:
NOTICE TO INTERESTED PARTIES**

Client: London Borough of Harrow

Report

LA20007 CL 002

Date

March 2020

Page

Attachment One - 1

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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Pinewood Close, Harrow

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

Client: London Borough of Harrow

Report	LA20007 CL 002
Date	March 2020
Page	Attachment Two - 1

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

238543349_1_1

Customer Reference:

LA20007

National Grid Reference:

513640, 191690

Slice:

A

Site Area (Ha):

0.07

Search Buffer (m):

1000

Site Details:

5, Pinewood Close

PINNER

HA5 4BW

Client Details:

Mr S Partridge

Subadra Consulting Ltd

Unit 13 Triangle Business Park

Wendover

Bucks

HP22 5BL

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	13
Hazardous Substances	-
Geological	14
Industrial Land Use	15
Sensitive Land Use	18
Data Currency	19
Data Suppliers	25
Useful Contacts	26

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)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1			Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1				1
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 1				3
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 1		Yes		
Pollution Incidents to Controlled Waters	pg 1				2
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 2			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 2	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 2	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 2		4	11	76

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
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	pg 13				1
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 14	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 14	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 14	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 14	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 14	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)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 15		2	7	21
Fuel Station Entries					
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 18				1
Areas of Adopted Green Belt	pg 18		1	1	1
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 18	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
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	488	1	513850 192150
1	Discharge Consents Operator: J Sainsbury Plc Property Type: SHOP INCL GARDEN CENTRE/RETAIL TRADE(NOT MOTOR VEHICLE) Location: New Store, Uxbridge Road, Hatchend, Harrow, Middlesex Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Cntw.0224 Permit Version: 1 Effective Date: 16th January 1990 Issued Date: 16th January 1990 Revocation Date: 8th April 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: River Pinn Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8SW (S)	708	2	513420 191000
2	Local Authority Pollution Prevention and Controls Name: Belmont Service Centre Limited Location: Chantry House, Chantry Place, Harrow, HA3 6ny Authority: London Borough of Harrow, Environmental Health Services Permit Reference: PPC/EP/Permit/94 Dated: 20th February 2013 Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Permitted Positional Accuracy: Manually positioned to the address or location	A8SE (S)	893	3	513687 190780
3	Local Authority Pollution Prevention and Controls Name: Perrys Nationwide Accident Repair Centres Location: Chantry Place, HARROW, Middlesex, HA3 6NY Authority: London Borough of Harrow, Environmental Health Services Permit Reference: Epa/Auth/12 Dated: 31st March 1994 Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles Status: Authorisation revoked Positional Accuracy: Manually positioned to the road within the address or location	A8SE (S)	893	3	513740 190784
4	Local Authority Pollution Prevention and Controls Name: Alpine Dry Cleaners Location: 262 Uxbridge Road, Hatch End, Pinner, Middlesex, HA5 4HS Authority: London Borough of Harrow, Environmental Health Services Permit Reference: EPA/PPC/Permit/48 Dated: 24th July 2007 Process Type: Local Authority Air Pollution Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A7NW (SW)	998	3	512768 191192
	Nearest Surface Water Feature	A13NE (NE)	114	-	513751 191755
5	Pollution Incidents to Controlled Waters Property Type: Not Given Location: HATCH END Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Natural Note: Confirmed As A Pollution Incident Incident Date: 16th November 1992 Incident Reference: N1920557 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	A12SW (W)	847	2	512800 191500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Wall Hall, ALDENHAM Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 11th June 1995 Incident Reference: N1950304 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	A17SW (NW)	933	2	512900 192300
	River Quality 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 (E)	438	2	514082 191572
	Groundwater Vulnerability Map Combined Classification: Unproductive Aquifer (may have productive aquifer beneath) Combined Vulnerability: Unproductive Combined Aquifer: Unproductive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NE (W)	0	4	513640 191693
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13NE (W)	0	4	513640 191693
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
7	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NE (NE)	114	5	513751 191755
8	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 137.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NE (NE)	134	5	513758 191778

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (NW)	223	5	513429 191822
10	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 199.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (NW)	246	5	513419 191848
11	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (NW)	271	5	513368 191807
12	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 114.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (NW)	276	5	513364 191808
13	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 301.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (SE)	283	5	513895 191528
14	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 143.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (SE)	283	5	513901 191537
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 277.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (S)	318	5	513673 191355
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13SE (E)	320	5	513976 191650
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 111.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (E)	328	5	513984 191664

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NE (W)	373	5	513255 191777
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NW (E)	393	5	514045 191757
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 450.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NW (E)	438	5	514077 191815
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 384.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A8NW (S)	450	5	513586 191225
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	536	5	513471 191165
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (N)	542	5	513449 192222
24	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (N)	563	5	513430 192237
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	564	5	513468 191137
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	567	5	513468 191134

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (N)	568	5	513425 192241
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (N)	579	5	513495 192275
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	580	5	513467 191120
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 562.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	583	5	513210 192121
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	589	5	513253 192167
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NW (S)	598	5	513467 191101
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 83.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	598	5	513287 192205
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 263.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (N)	620	5	513527 192323
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (N)	620	5	513527 192323

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 496.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SE (NW)	629	5	513187 192162
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 131.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (N)	634	5	513513 192335
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (NW)	637	5	513330 192275
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (NW)	638	5	513328 192275
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 188.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A8NW (S)	641	5	513398 191080
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 162.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SW (NW)	645	5	513334 192286
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 122.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 2	A8NW (SW)	652	5	513331 191100
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A8NW (SW)	652	5	513331 191100
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A8NW (SW)	656	5	513325 191099

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	696	5	513462 191000
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.3 Watercourse Level: Underground Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 2	A8SW (S)	696	5	513417 191014
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (S)	698	5	513456 191000
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 173.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A7NE (SW)	705	5	513288 191063
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 525.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Yeading Brook Catchment Name: Thames Primacy: 1	A14NE (E)	750	5	514402 191781
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1237.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Yeading Brook Catchment Name: Thames Primacy: 1	A9NW (SE)	786	5	514265 191182
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	790	5	513344 192448
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	792	5	512838 191592
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 250.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SW (SW)	799	5	513304 190950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	802	5	512829 191582
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	803	5	513364 192470
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 281.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	808	5	514305 192173
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 123.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	808	5	514305 192173
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 170.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SW (NW)	825	5	512862 192031
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A18NW (N)	828	5	513407 192508
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	828	5	513407 192508
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	831	5	513412 192514
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A18NW (N)	834	5	513401 192513

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A18NE (N)	835	5	513664 192547
64	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	835	5	513664 192547
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	839	5	513668 192551
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 167.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	839	5	512802 191892
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	843	5	513671 192555
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	843	5	512788 191584
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A7SE (SW)	845	5	513139 190995
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A18NE (N)	849	5	513652 192561
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	849	5	512788 191544

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	852	5	512776 191602
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	861	5	513453 192554
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	862	5	512760 191739
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	864	5	512758 191734
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 163.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	873	5	512780 191943
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	874	5	512748 191662
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 173.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (W)	875	5	512771 191503
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 109.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	878	5	513695 192588
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 316.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	884	5	514304 192293

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	884	5	512743 191806
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	884	5	514304 192293
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 194.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	885	5	514278 192321
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Underground Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A7SE (SW)	889	5	513082 190985
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 608.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Pinn Catchment Name: Thames Primacy: 1	A7SE (SW)	892	5	513079 190982
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	895	5	513506 192599
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 106.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19NW (NE)	898	5	514162 192439
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 124.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	920	5	513555 192629
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	971	5	513760 192676

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (W)	973	5	512720 191342
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	974	5	513752 192680
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	977	5	513757 192682
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	984	5	513318 192644
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A17SW (W)	991	5	512697 192064
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	995	5	513766 192699
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	996	5	512709 191309
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (SW)	1000	5	512707 191305

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	Licensed Waste Management Facilities (Locations) Licence Number: 405699 Location: Bannister Sports Centre, Uxbridge Road, Harrow, Middlesex, HA3 6SW Operator Name: Thames Materials Limited Operator Location: Not Supplied Authority: Environment Agency - Thames Region, North East Area Site Category: Use of waste in a deposit for recovery op Licence Status: Issued Issued: 21st October 2019 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SW (E)	580	2	514220 191540
	Local Authority Landfill Coverage Name: London Borough of Harrow - Has supplied landfill data		0	3	513640 191693
99	Local Authority Recorded Landfill Sites Location: Weald Wood, Old Redding Reference: Not Supplied Authority: London Borough of Harrow, Environmental Health Services Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Unknown Boundary Quality: Not Applicable	A18NE (N)	966	3	513915 192637

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Thames Group	A13NE (W)	0	1	513640 191693
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	513640 191693
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	513640 191693
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	513640 191693
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	513640 191693
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	211	1	513799 191846
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	513640 191693
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (W)	0	1	513640 191693
	Radon Potential - Radon Affected Areas 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 (W)	0	1	513640 191693
	Radon Potential - Radon Protection Measures 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 (W)	0	1	513640 191693

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	Contemporary Trade Directory Entries Name: Shaftesbury Location: 13, Sequoia Park, Pinner, Middlesex, HA5 4DG Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	99	-	513634 191811
101	Contemporary Trade Directory Entries Name: Zaccho Location: 1, Clonard Cottages, Rowlands Avenue, Pinner, Middlesex, HA5 4AP Classification: Footwear Manufacturers & Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	163	-	513525 191841
102	Contemporary Trade Directory Entries Name: Spice Guru Ltd Location: 17, Furham Field, Pinner, Middlesex, HA5 4DX Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	332	-	513379 191475
103	Contemporary Trade Directory Entries Name: R J Spring & Co Location: Highcroft, Oxhey Lane, Harrow, Middlesex, HA3 6SN Classification: Sports Equipment Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	420	-	513687 192129
104	Contemporary Trade Directory Entries Name: The Fireplace Co Location: Uxbridge Road, Harrow, Middlesex, HA3 6SW Classification: Fireplaces & Mantelpieces Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	465	-	514076 191479
105	Contemporary Trade Directory Entries Name: Adult & Community & Family Learning Courses Location: Uxbridge Road, Pinner, Middlesex, HA5 4EA Classification: Drain & Sewer Clearance - Equipment Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NW (S)	469	-	513488 191230
106	Contemporary Trade Directory Entries Name: Killnow Pest Control Ltd Location: 2a, Cedar Drive, Pinner, Middlesex, HA5 4DE Classification: Pest & Vermin Control Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	495	-	513172 191502
106	Contemporary Trade Directory Entries Name: Killnow Pest Control Ltd Location: A, 2, Cedar Drive, Pinner, Middlesex, HA5 4DE Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	495	-	513172 191502
106	Contemporary Trade Directory Entries Name: Network Angel Location: 2a, Cedar Drive, Pinner, Middlesex, HA5 4DE Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	495	-	513172 191502
107	Contemporary Trade Directory Entries Name: Doyle Manufacturing Co Ltd Location: 4, Artillery Place, Harrow, Middlesex, HA3 6QJ Classification: Sports Equipment Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	727	-	514300 191341
108	Contemporary Trade Directory Entries Name: Ultimate Carpet & Upholstery Cleaning Location: 19, Langton Road, HARROW, Middlesex, HA3 6QN Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	738	-	514173 191154
109	Contemporary Trade Directory Entries Name: Complete Pest Control Ltd Location: 105, Dove Park, Pinner, Middlesex, HA5 4EE Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	740	-	513048 191235

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
109	Contemporary Trade Directory Entries Name: Hatch End Carpet Cleaners Location: 57, Dove Park, Pinner, Middlesex, HA5 4ED Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	753	-	513057 191203
109	Contemporary Trade Directory Entries Name: Hatch End Carpet Cleaners Location: 57, Dove Park, Pinner, HA5 4ED Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	753	-	513056 191203
109	Contemporary Trade Directory Entries Name: Appliance World Location: 61, Dove Park, Pinner, Middlesex, HA5 4ED Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	753	-	513057 191203
110	Contemporary Trade Directory Entries Name: A D Muntean Location: 1, Thorndyke Court, Pinner, Middlesex, HA5 4JG Classification: Office Furniture & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	781	-	512876 191476
111	Contemporary Trade Directory Entries Name: Indus Chemie Ltd Location: 18, Dove Park, Pinner, HA5 4EB Classification: Chemical Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	792	-	512987 191232
112	Contemporary Trade Directory Entries Name: C Brewer & Sons Ltd Location: 12, Whittlesea Close, Harrow, Middlesex, HA3 6LU Classification: Builders' Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	822	-	514191 191056
113	Contemporary Trade Directory Entries Name: L R M Scaffolding Location: 16, Hutton Gardens, Harrow, HA3 6RA Classification: Scaffolding & Work Platforms Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (SE)	830	-	514422 191358
114	Contemporary Trade Directory Entries Name: Belmont Centre Location: Chantry House, Chantry Place, Harrow, Middlesex, HA3 6NY Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	903	-	513698 190770
114	Contemporary Trade Directory Entries Name: Edwin Motors Ltd Location: Chantry House, Chantry Place, Harrow, Middlesex, HA3 6NY Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	903	-	513698 190770
115	Contemporary Trade Directory Entries Name: Fair Retail Adventures Location: Headstone Lane, Harrow, HA3 6NW Classification: Boxes & Cartons Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	913	-	513814 190775
115	Contemporary Trade Directory Entries Name: Wave Enterprises Lighting Manufacturer Ltd Location: Headstone Lane, Harrow, Middlesex, HA3 6NW Classification: Lighting Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	920	-	513813 190767
115	Contemporary Trade Directory Entries Name: Headstone Cutter Co Location: Headstone Lane, HARROW, Middlesex, HA3 6NW Classification: Tool Sharpening, Repairing & Servicing Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	920	-	513813 190767

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	Contemporary Trade Directory Entries Name: Nationwide Crash Repair Centres Ltd Location: Unit 3, Chantry Place, Harrow, Middlesex, HA3 6NY Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	926	-	513811 190760
116	Contemporary Trade Directory Entries Name: Curtain Decor Ltd Location: 53, Sylvia Avenue, Pinner, Middlesex, HA5 4QN Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	936	-	512686 191739
117	Contemporary Trade Directory Entries Name: C & G Metals Location: 4, Whittlesea Path, Harrow, Middlesex, HA3 6LP Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	952	-	514186 190889
118	Contemporary Trade Directory Entries Name: Enviropack Ltd Location: Unit 4, Chantry Place, Harrow, HA3 6NY Classification: Catering Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	976	-	513797 190707
119	Contemporary Trade Directory Entries Name: The Fireplace Co Location: 258, Uxbridge Road, Pinner, Middlesex, HA5 4HS Classification: Fireplaces & Mantelpieces Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NW (SW)	997	-	512759 191208
119	Contemporary Trade Directory Entries Name: Fifth Gear Workshop Location: 258, Uxbridge Road, Pinner, Middlesex, HA5 4HS Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	997	-	512759 191208

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	Ancient Woodland Name: Not Supplied Reference: 1495731 Area(m²): 24896.82 Type: Ancient and Semi-Natural Woodland	A18NE (N)	837	6	513847 192522
121	Areas of Adopted Green Belt Authority: London Borough of Harrow Plan Name: Proposal Map Status: Adopted Plan Date: 4th July 2013	A13NE (NE)	113	7	513746 191761
122	Areas of Adopted Green Belt Authority: London Borough of Harrow Plan Name: Proposal Map Status: Adopted Plan Date: 4th July 2013	A8NE (S)	439	7	513649 191233
123	Areas of Adopted Green Belt Authority: London Borough of Harrow Plan Name: Proposal Map Status: Adopted Plan Date: 4th July 2013	A7NE (SW)	698	7	513281 191077
124	Nitrate Vulnerable Zones Name: Colne And Guc (From Confluence With Chess To Ash) Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NE (W)	0	4	513640 191693

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Watford Borough Council - Environmental Health Department London Borough of Barnet - 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 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 Annual Rolling Update
Discharge Consents Environment Agency - Thames Region	October 2019	Quarterly
Enforcement and Prohibition Notices Environment Agency - Thames Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - Thames Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region	January 2020 January 2020	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control London Borough of Barnet - Environmental Health Department 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	April 2013 August 2014 December 2014 February 2015 January 2015 July 2015 June 2014 March 2016	Variable Variable Variable Variable Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls London Borough of Hillingdon - Environmental Health Department London Borough of Barnet - 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 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 Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements London Borough of Hillingdon - Environmental Health Department London Borough of Barnet - 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 December 2014 February 2015 January 2015 July 2015 June 2014 March 2016	Variable Variable Variable Variable Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	January 2020	
Pollution Incidents to Controlled Waters Environment Agency - Thames Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Thames Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Thames Region	March 2013	Annual Rolling Update

Agency & Hydrological	Version	Update Cycle
Registered Radioactive Substances Environment Agency - Thames Region	June 2016	
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	January 2020 January 2020	Quarterly Quarterly
Water Abstractions Environment Agency - Thames Region	January 2020	Quarterly
Water Industry Act Referrals Environment Agency - Thames Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2019	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2019	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	November 2019	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	November 2019	Quarterly
Flood Defences Environment Agency - Head Office	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	January 2020	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

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

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements London Borough of Harrow Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Planning Department London Borough of Barnet 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 February 2016 January 2016 January 2016	Variable Variable Variable Variable Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents London Borough of Harrow Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Planning Department London Borough of Barnet 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 February 2016 January 2016 January 2016	Variable Variable Variable Variable Variable Variable Variable Variable Variable

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

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

A selection of organisations who provide data within this report

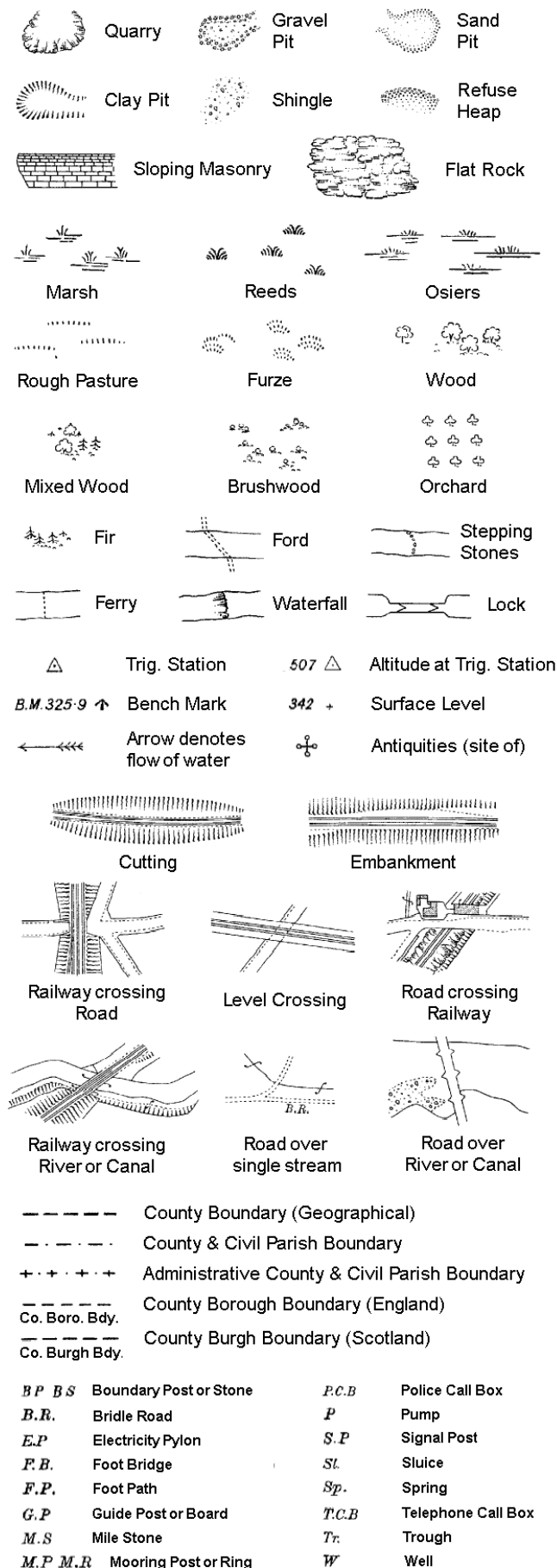
Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT 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	British Geological Survey - Enquiry Service 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	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	London Borough of Harrow - Environmental Health Services P O Box 18, Civic Centre, Harrow, Middlesex, HA1 2UT	Telephone: 020 8863 5611 Fax: 020 8863 8267 Website: www.harrow.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
7	London Borough of Harrow Civic Centre, Station Road, Harrow, Middlesex, HA1 2XF	Telephone: 020 8863 5611 Fax: 020 8863 8267 Website: www.harrow.gov.uk
8	Three Rivers District Council Three Rivers House, Northway, Rickmansworth, Hertfordshire, WD3 1RL	Telephone: 01923 776611 Fax: 01923 896119 Website: www.threerivers.gov.uk
9	Hertsmere Borough Council - Planning Department Civic Offices, Elstree Way, Borehamwood, Hertfordshire, WD6 1WA	Telephone: 020 8207 2277 Fax: 020 8207 7444 Website: www.hertsmere.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited 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

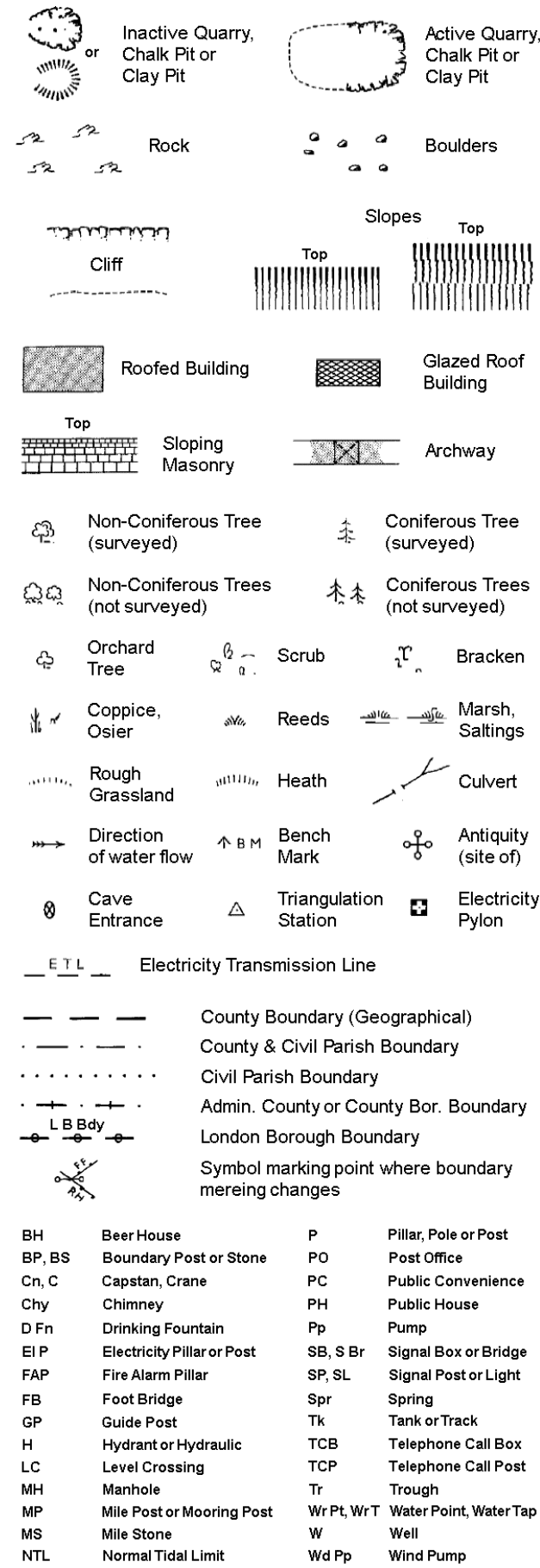
Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

Historical Mapping Legends

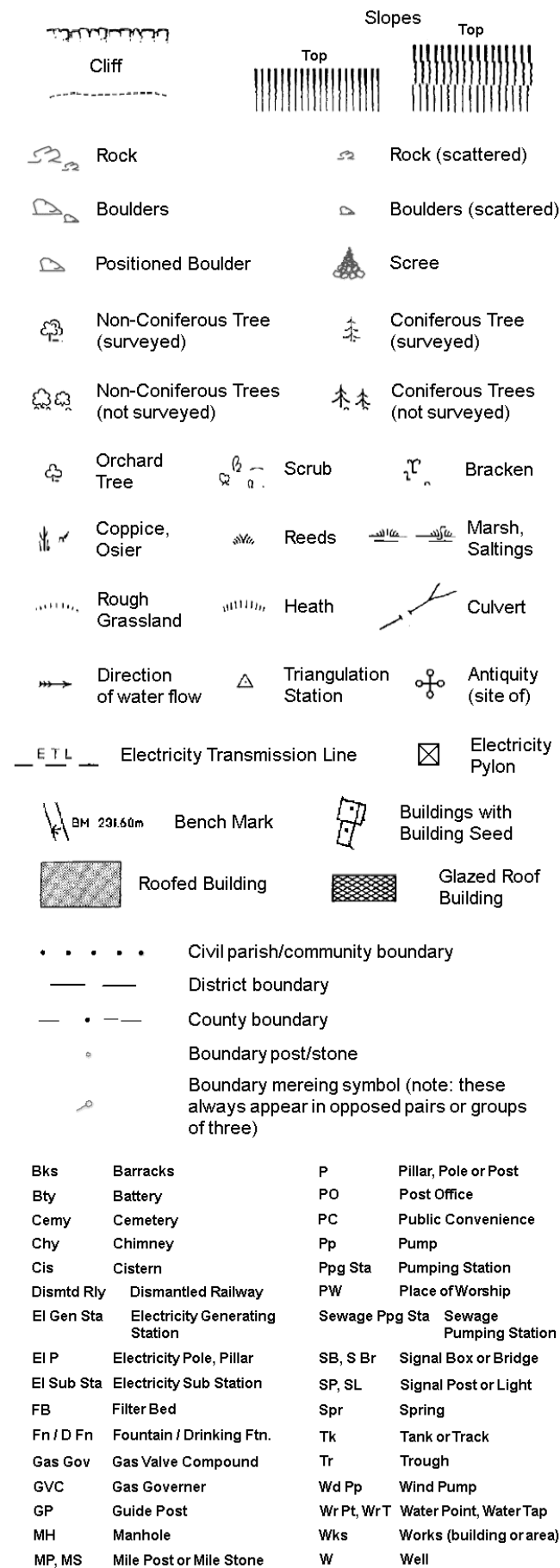
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



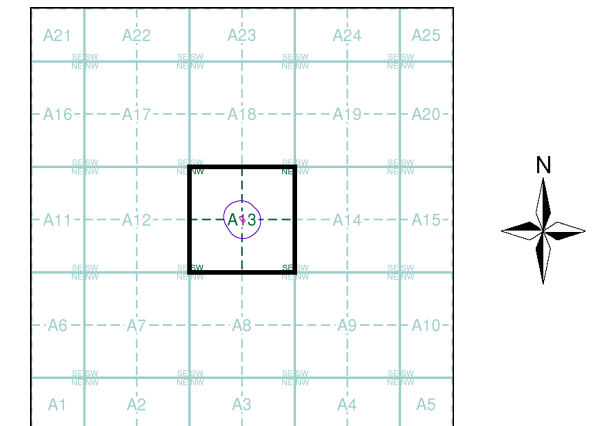
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hertfordshire	1:2,500	1871	2
Middlesex	1:2,500	1877	3
Middlesex	1:2,500	1896	4
Hertfordshire	1:2,500	1898	5
Hertfordshire	1:2,500	1913	6
Hertfordshire	1:2,500	1935	7
Ordnance Survey Plan	1:1,250	1963 - 1964	8
Additional SIMs	1:1,250	1963 - 1986	9
Ordnance Survey Plan	1:2,500	1964 - 1966	10
Ordnance Survey Plan	1:1,250	1972 - 1978	11
Large-Scale National Grid Data	1:1,250	1992	12
Large-Scale National Grid Data	1:1,250	1992	13

Historical Map - Segment A13



Order Details

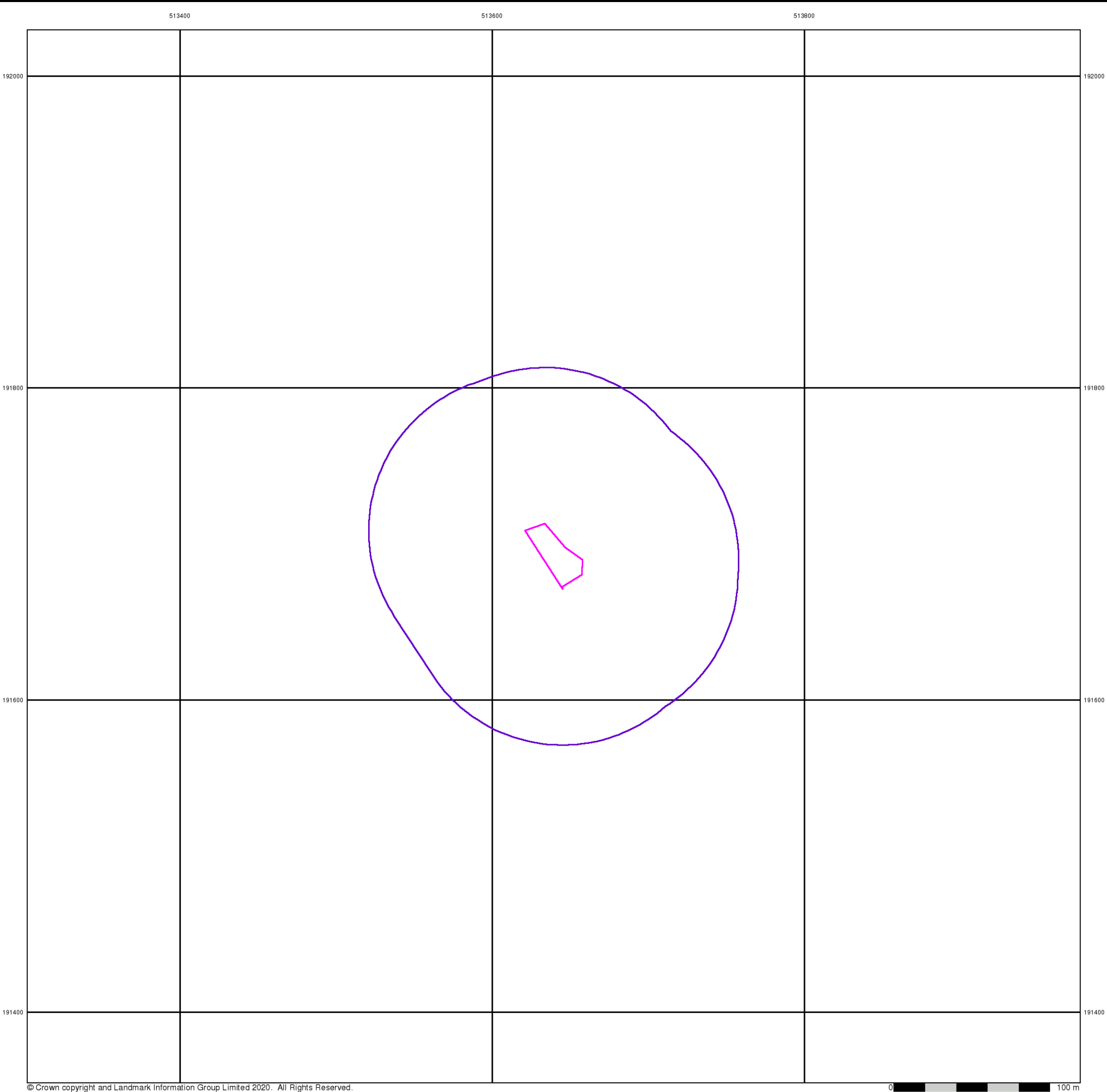
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National Grid Reference: 513640, 191690
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 100

Site Details

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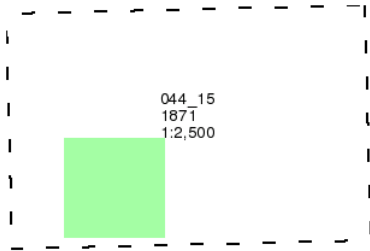
Hertfordshire

Published 1871

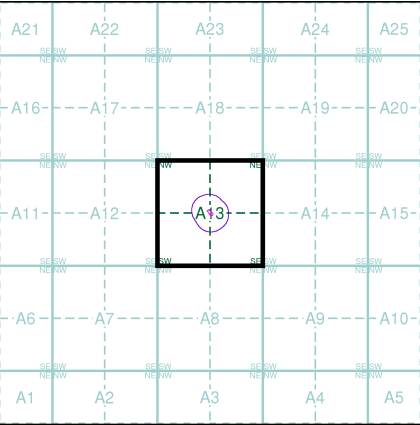
Source map scale - 1:2,500

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

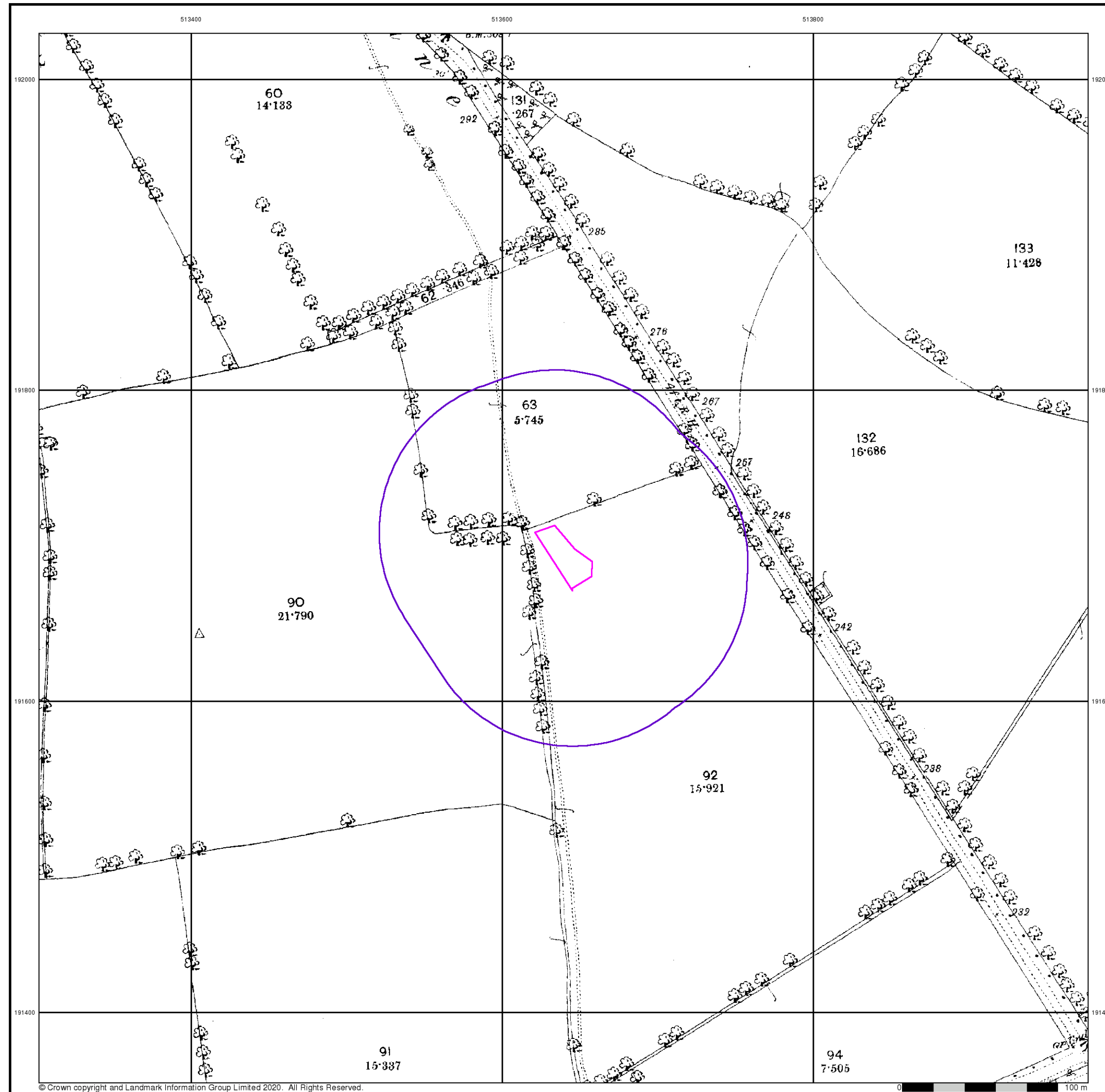
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Slice: A
Site Area (Ha): 0.07
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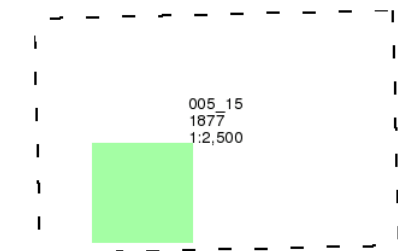
Middlesex

Published 1877

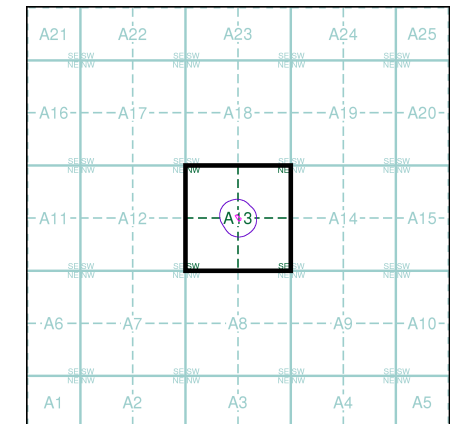
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered 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

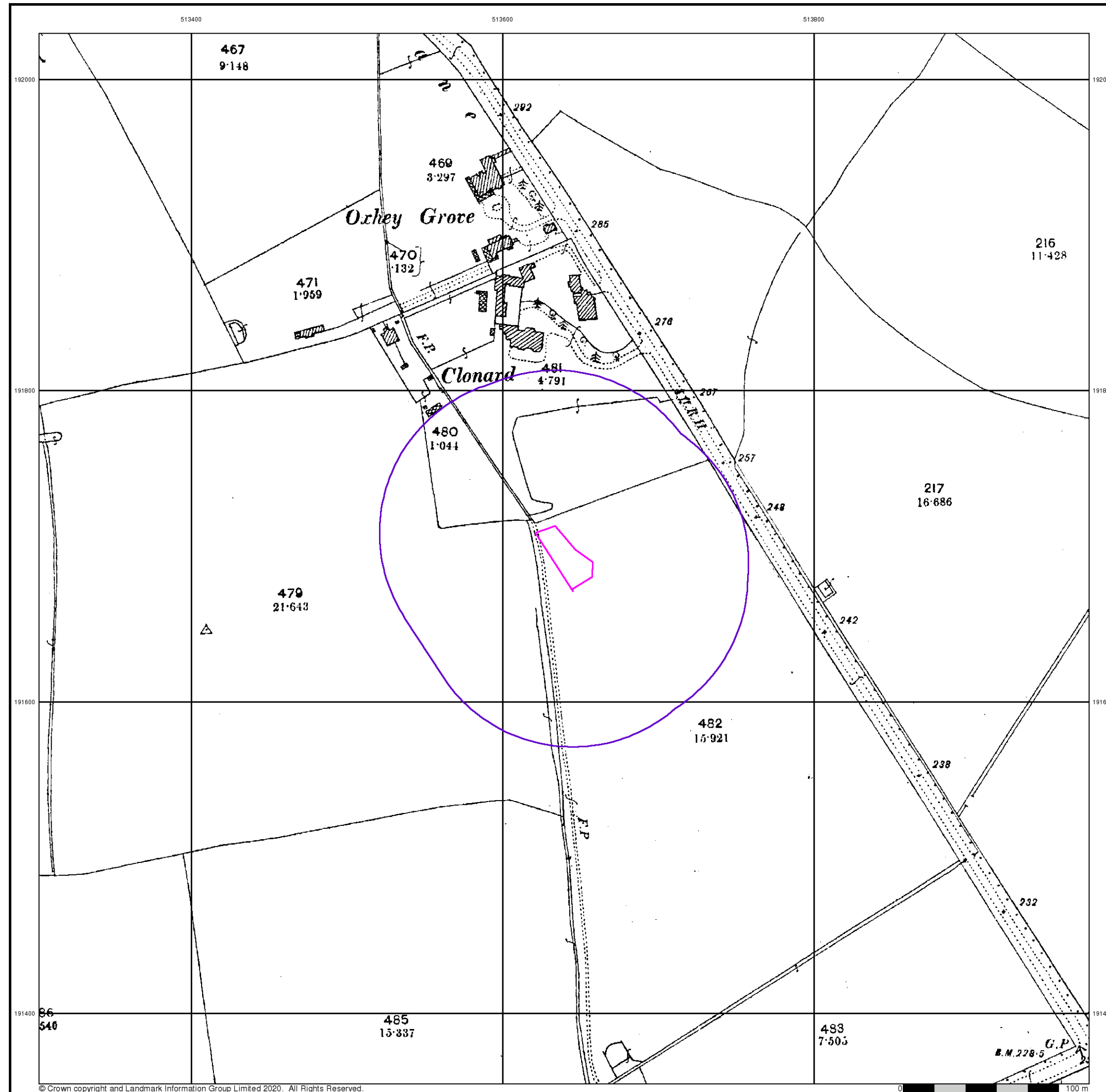
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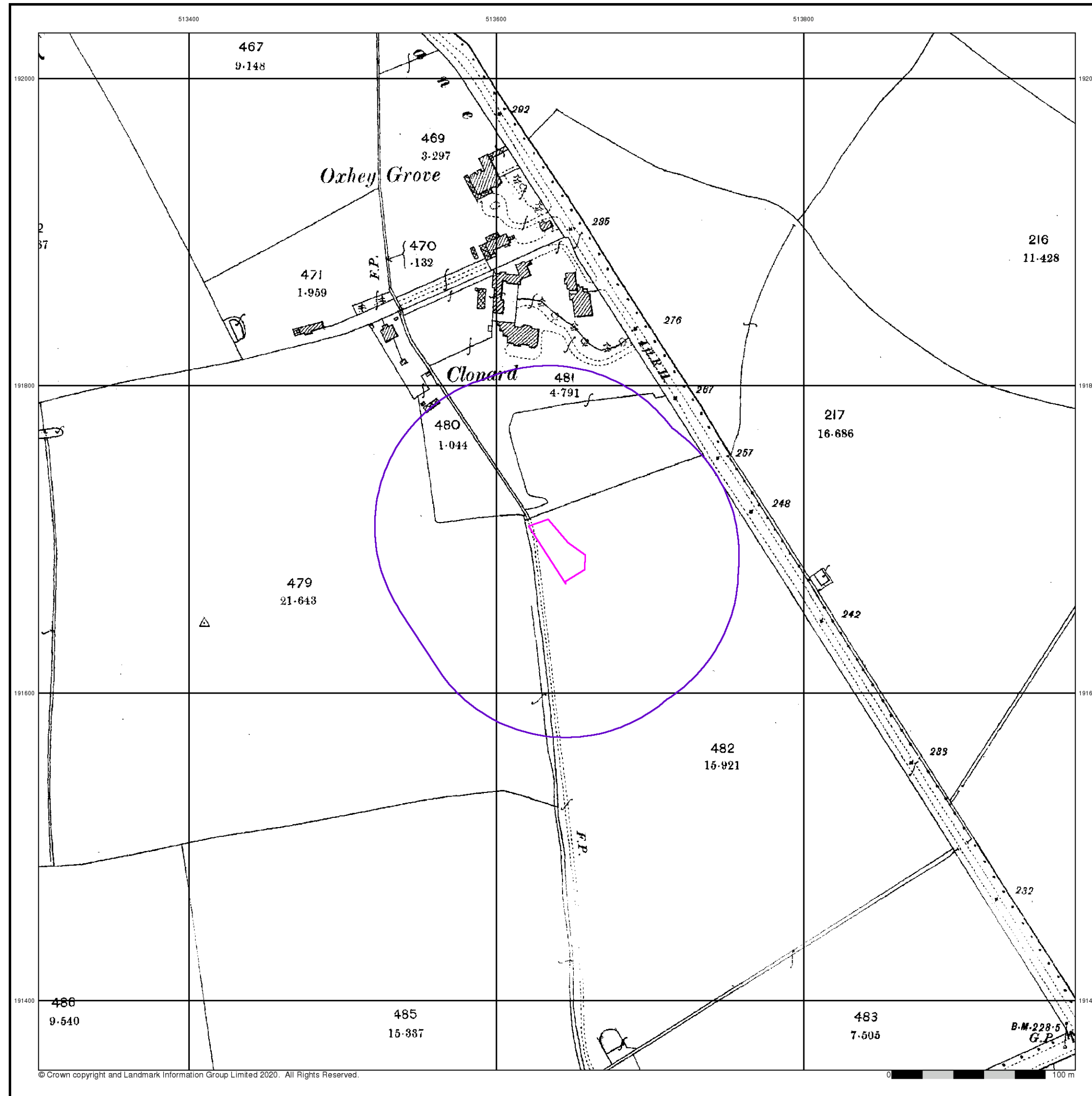
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Hertfordshire

Published 1898

Source map scale - 1:2,500

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Map Name(s) and Date(s)

044_15

1898

1:2,500

Historical Map - Segment A13

A21

A22

A23

A24

A25

A16

A17

A18

A19

A20

A11

A12

A13

A14

A15

A6

A7

A8

A9

A10

A1

A2

A3

A4

A5

N

Order Details

Order Number:	238543349_1_1
Customer Ref:	LA20007
National Grid Reference:	513640, 191690
Slice:	A
Site Area (Ha):	0.07
Search Buffer (m):	100

Site Details

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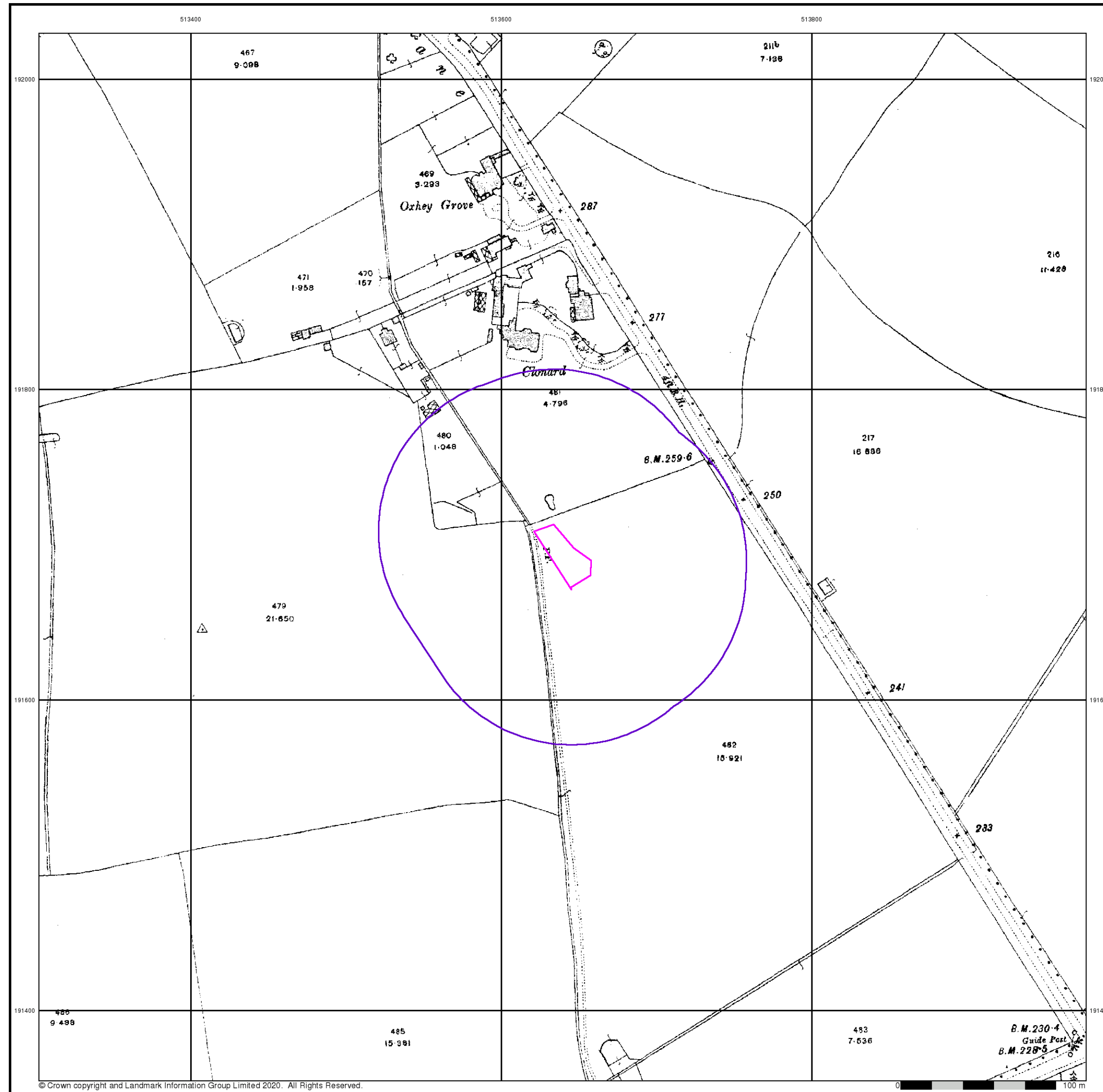
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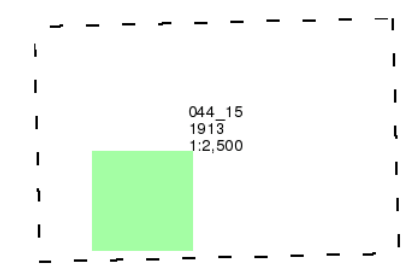
Hertfordshire

Published 1913

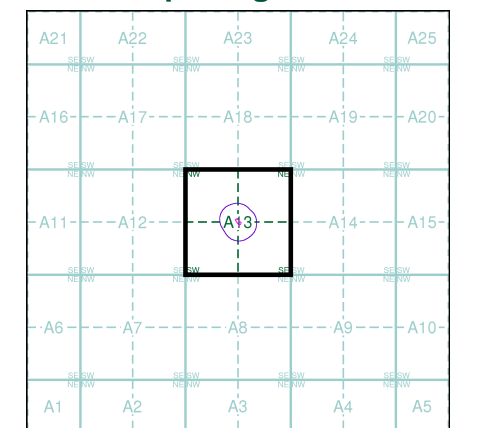
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Map Name(s) and Date(s)



Historical Map - Segment A13

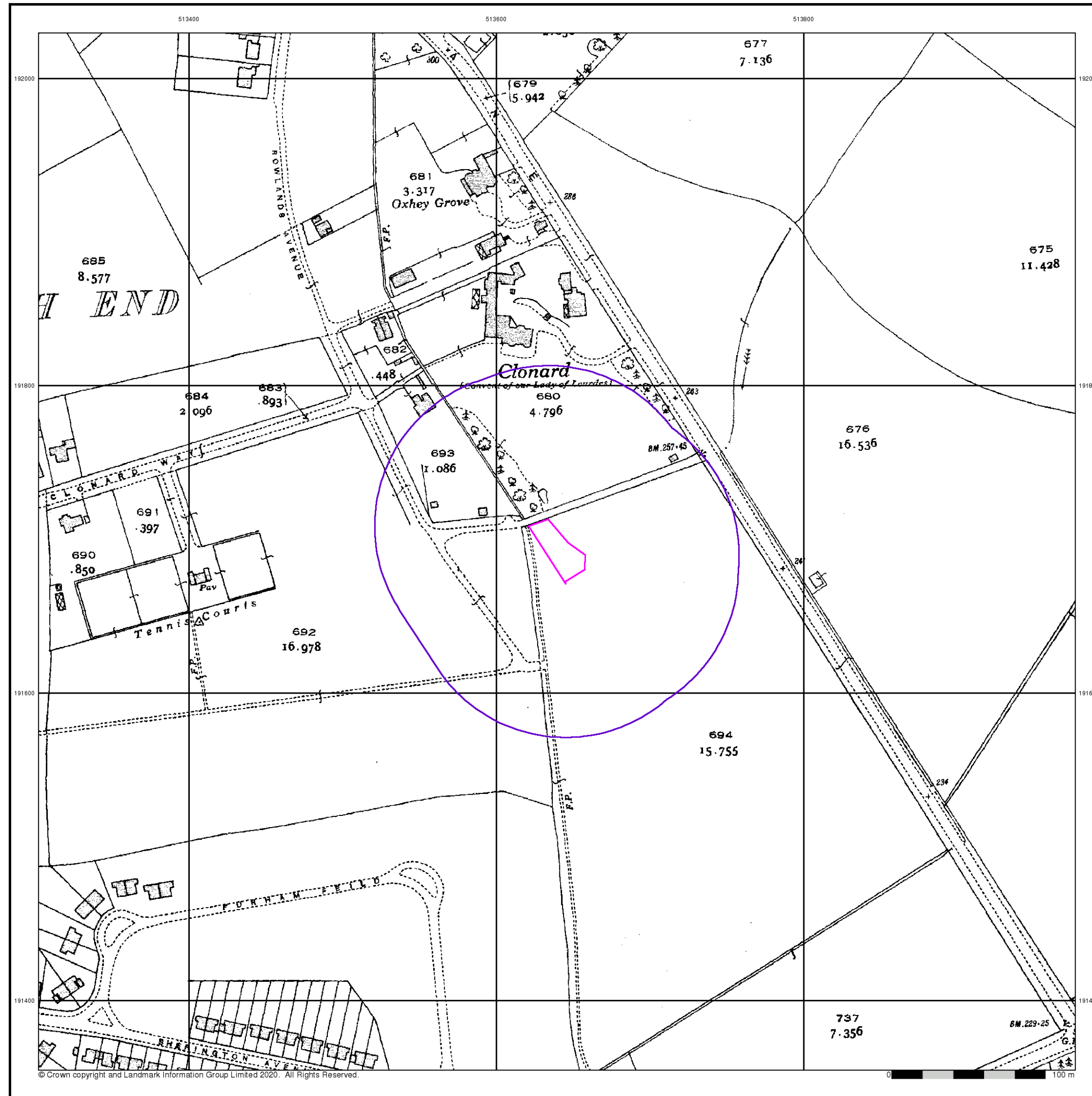


Order Details

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Customer Ref: LA20007
National Grid Reference: 513640, 191690
Slice: A
Site Area (Ha): 0.07
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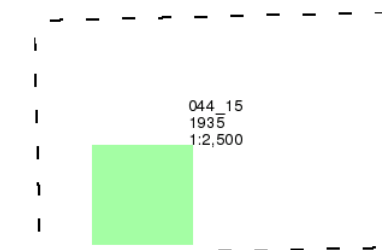
Hertfordshire

Published 1935

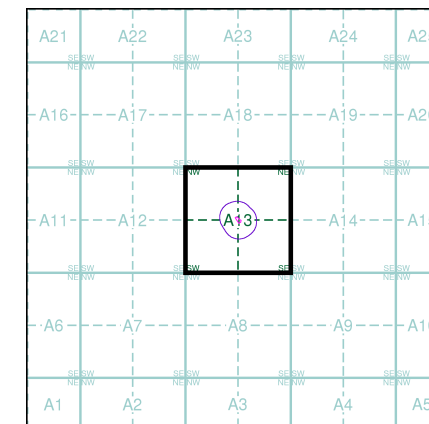
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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

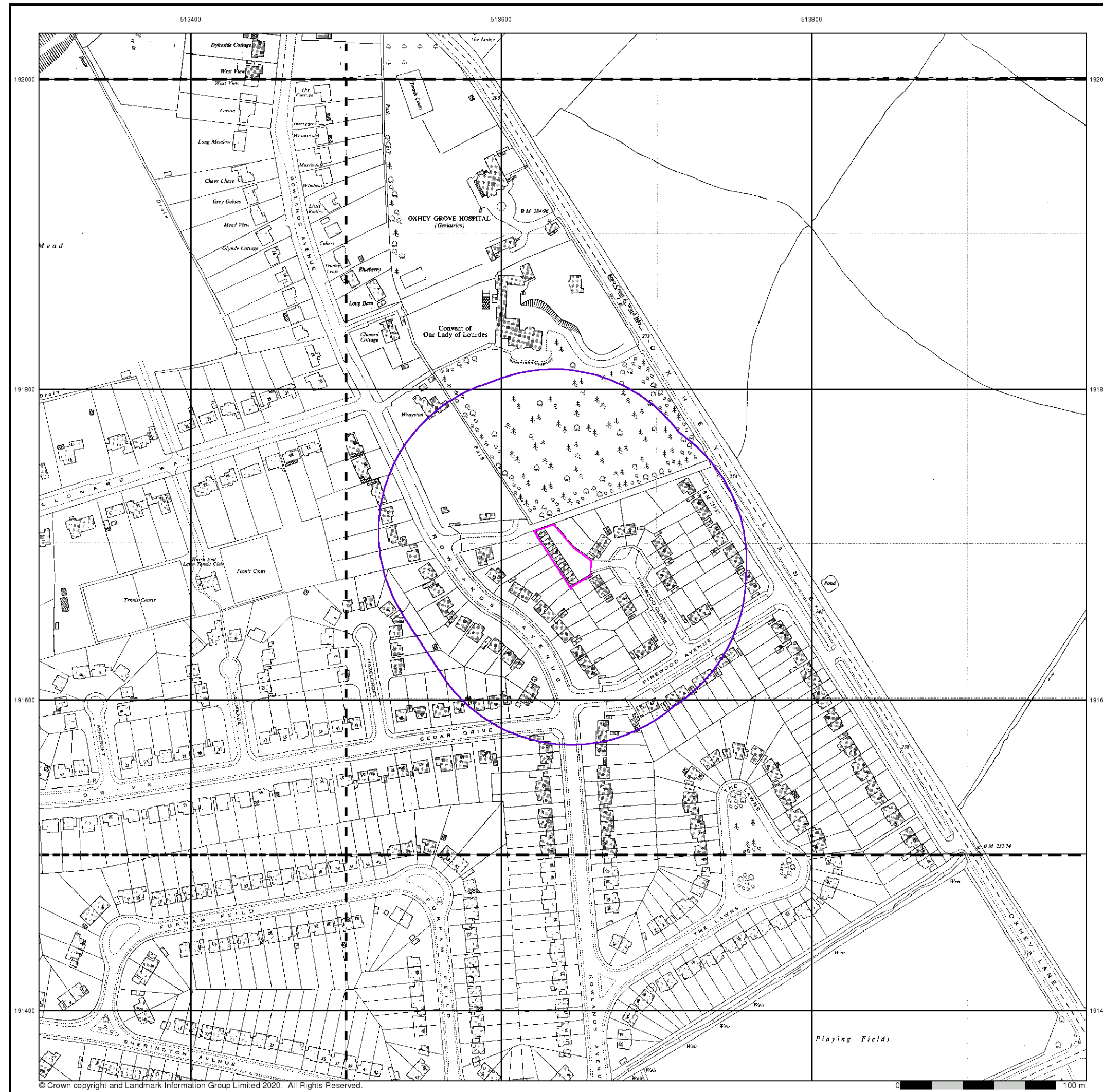
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Search Buffer (m): 100

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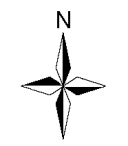
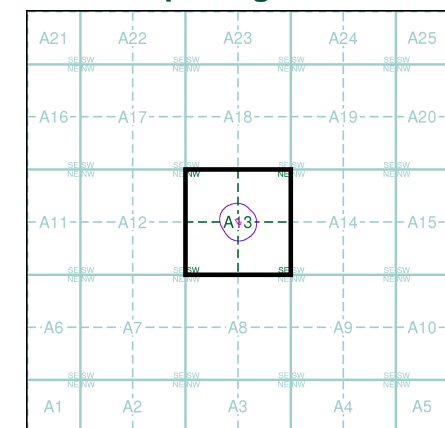
Ordnance Survey Plan Published 1963 - 1964 Source map scale - 1:1,250

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)

Q1392SV	Q1392SE
1963	1963
1:1,250	1:1,250
Q1391NW	Q1391NE
1964	1964
1:1,250	1:1,250
Q1391SW	Q1391SE
1964	1964
1:1,250	1:1,250

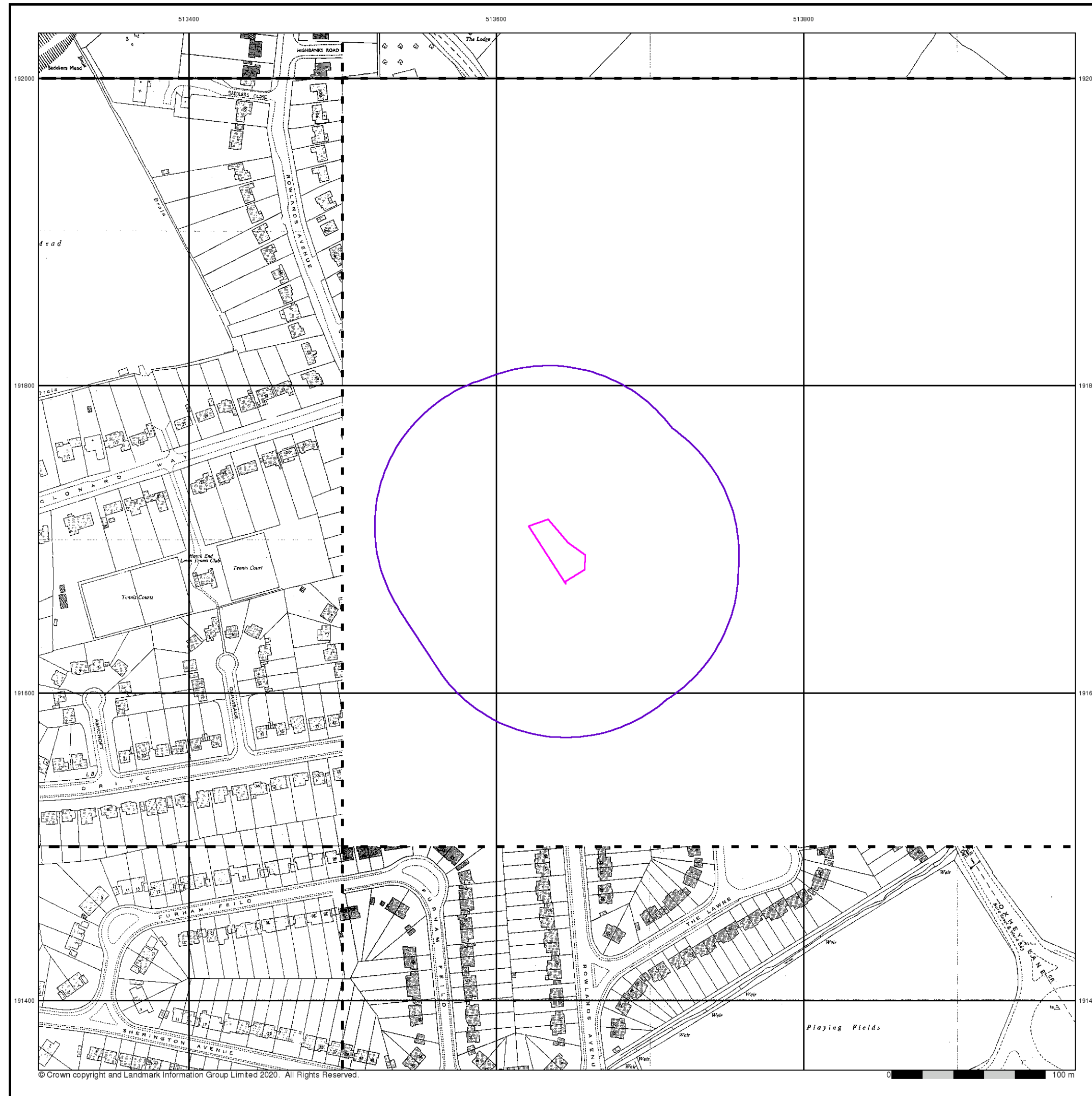
Historical Map - Segment A13



Order Details
Order Number: 238543349_1_1
Customer Ref: LA20007
National Grid Reference: 513640, 191690
Slice: A
Site Area (Ha): 0.07
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Additional SIMs

Published 1963 - 1986

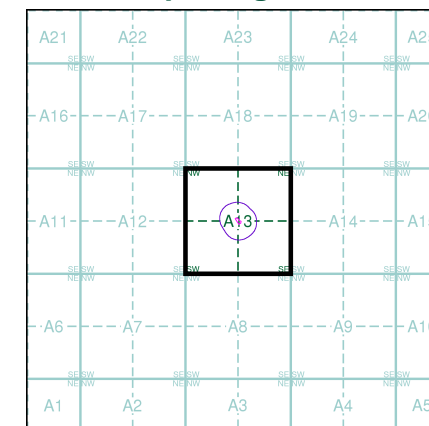
Source map scale - 1:1,250

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)

Q1392SV	Q1392SE
1963	1963
1:1,250	1:1,250
Q1391NW	
1986	
1:1,250	
Q1391SV	Q1391SE
1980	1986
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

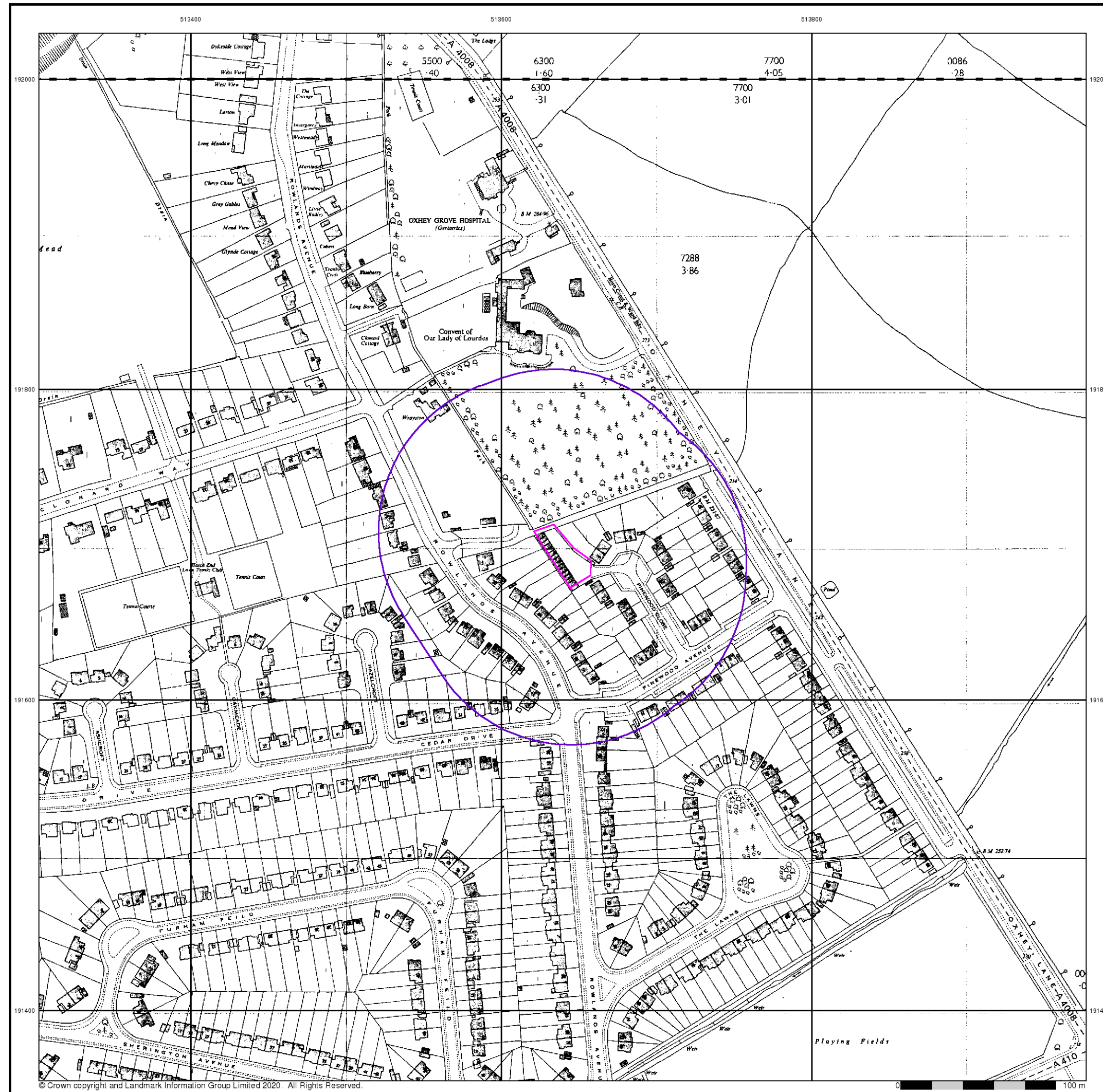
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Customer Ref: LA20007
National Grid Reference: 513640, 191690
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1964 - 1966

Source map scale - 1:2,500

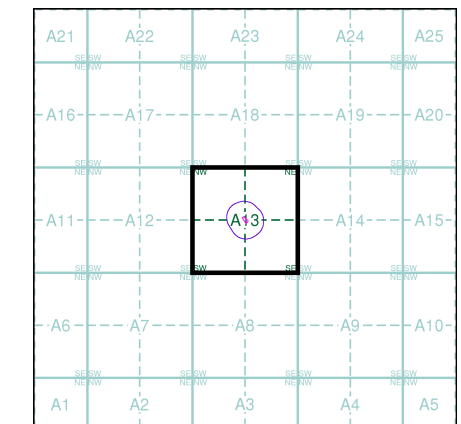
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)

TQ1392
1964
1:2,500

TQ1391
1966
1:2,500

Historical Map - Segment A13

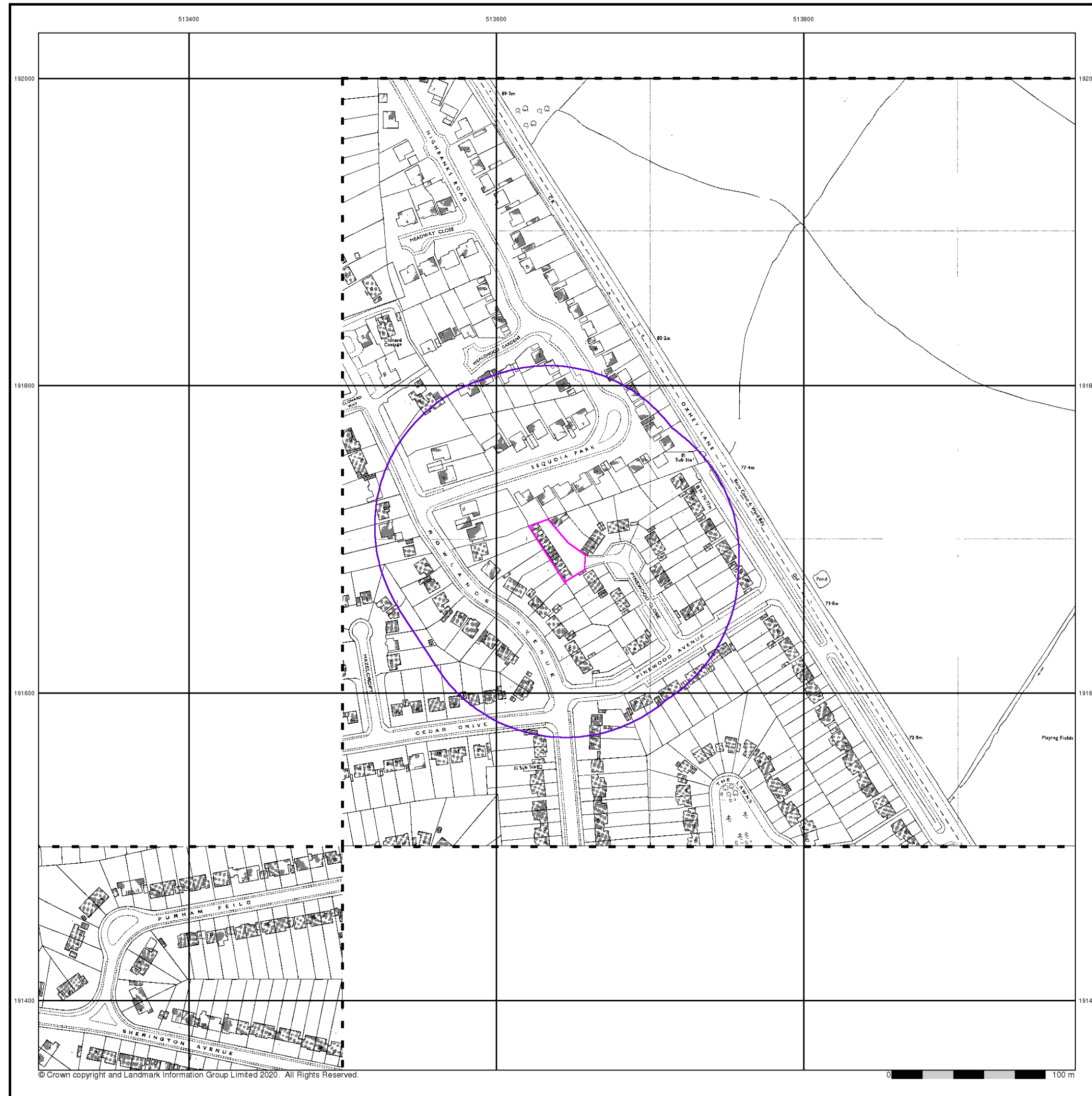


Order Details

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Customer Ref: LA20007
National Grid Reference: 513640, 191690
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 100

Site Details

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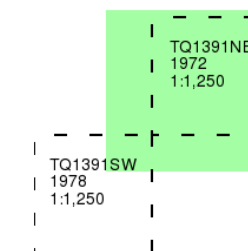
Ordnance Survey Plan

Published 1972 - 1978

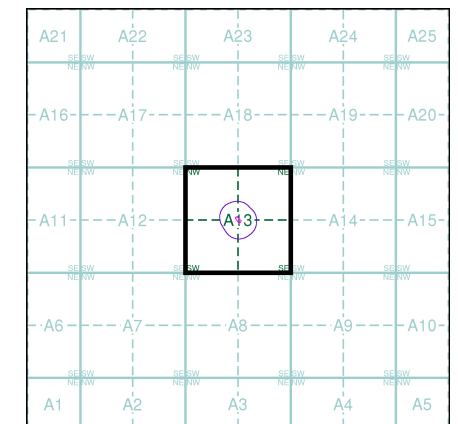
Source map scale - 1:1,250

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)



Historical Map - Segment A13



Order Details

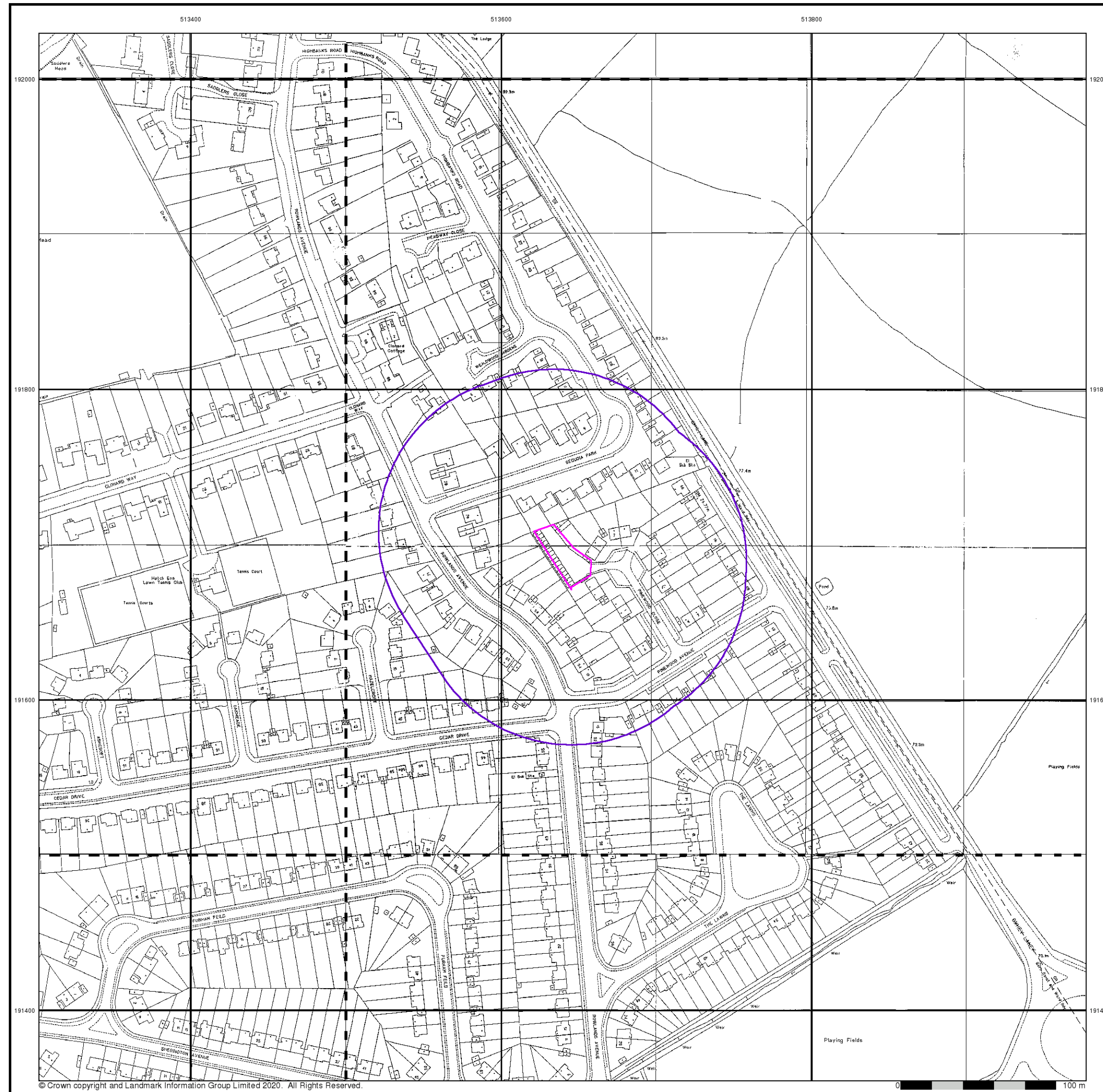
Order Number: 238543349_1_1
Customer Ref: LA20007
National Grid Reference: 513640, 191690
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 100

Site Details

5, Pinewood Close, PINNER, HA5 4BW

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



Large-Scale National Grid Data

Published 1992

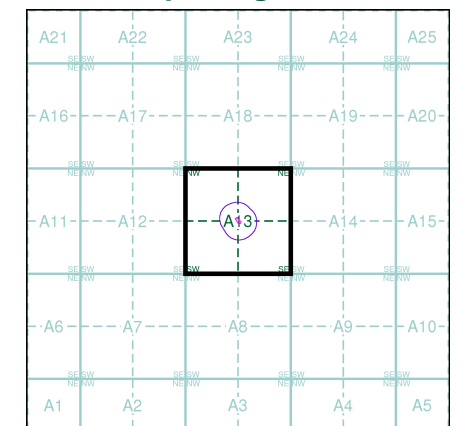
Source map scale - 1:1,250

'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)

Q1392SW	Q1392SE
1992	1992
1:1,250	1:1,250
Q1391NW	Q1391NE
1992	1992
1:1,250	1:1,250
Q1391SW	Q1391SE
1992	1992
1:1,250	1:1,250

Historical Map - Segment A13

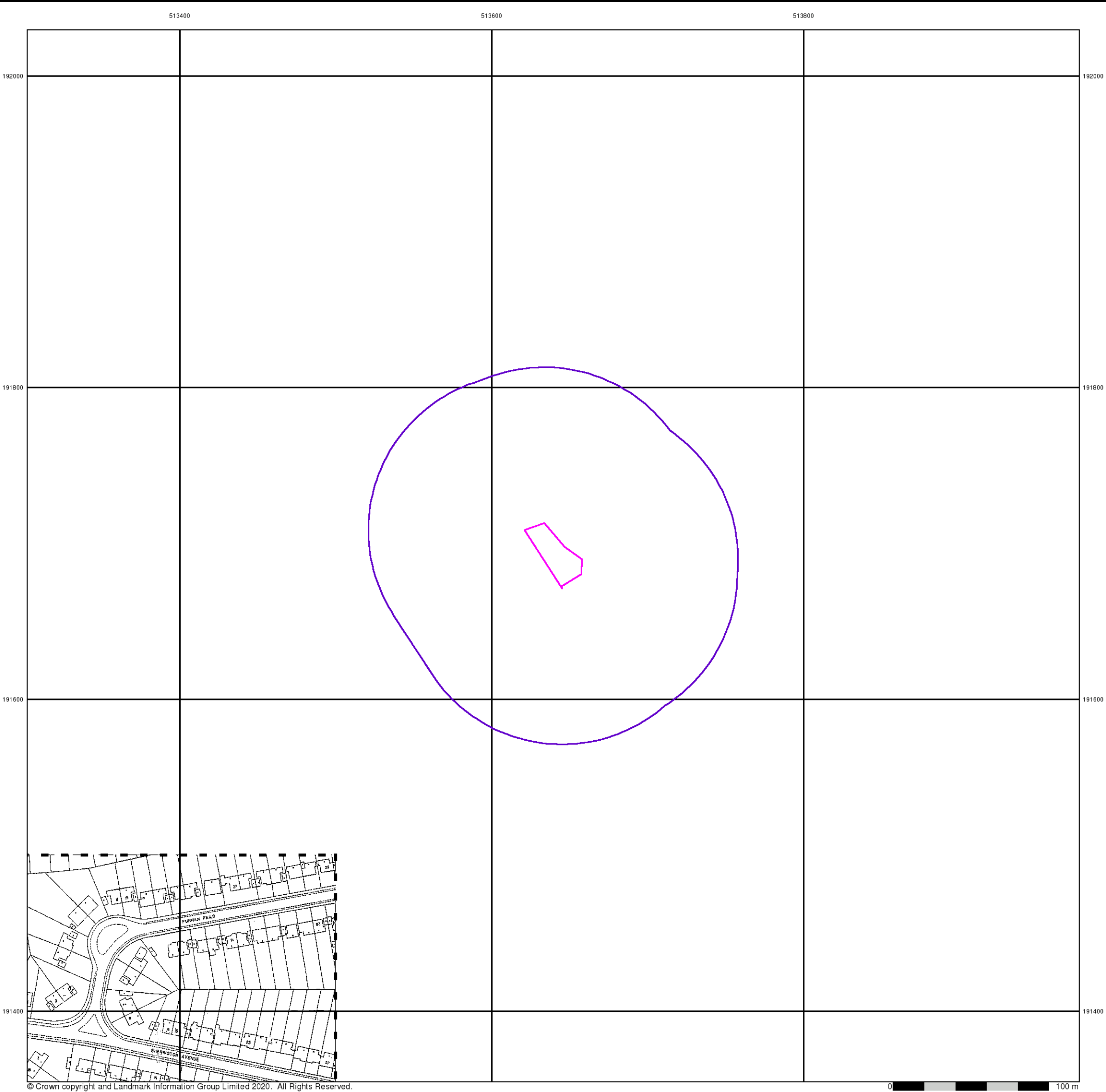


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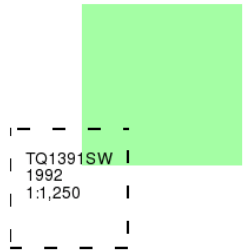
Large-Scale National Grid Data

Published 1992

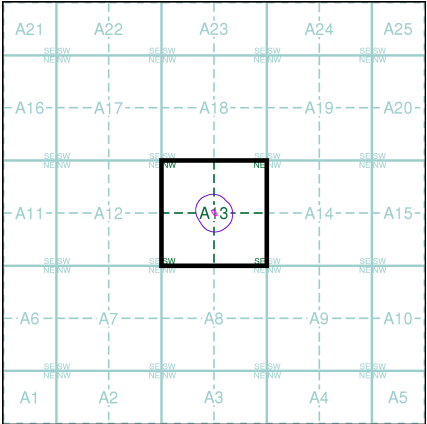
Source map scale - 1:1,250

'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)



Historical Map - Segment A13



Order Details

Order Number: 238543349_1_1
Customer Ref: LA20007
National Grid Reference: 513640, 191690
Slice: A
Site Area (Ha): 0.07
Search Buffer (m): 100

Site Details

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Pinewood 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:
GROUNDSURE REPORT**

Client: London Borough of Harrow

Report	LA20007 CL 002
Date	March 2020
Page	Attachment Three - 1

GARAGES ADJACENT TO 5, PINEWOOD CLOSE, PINNER, HA5 4BW

Order Details

Date: 16/03/2020
Your ref: 25897
Our Ref: GS-6697972
Client: Subadra Consulting

Site Details

Location: 513636 191696
Area: 0.07 ha



Summary of findings

p. 2

Aerial image

p. 5

OS MasterMap site plan

p. 8

groundsure.com/insightuserguide

Contact us with any questions at:

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
9	<u>1.1</u>	<u>10k Availability</u>	Identified (within 500m)				
10	1.2	Artificial and made ground (10k)	0	0	0	0	-
11	1.3	Superficial geology (10k)	0	0	0	0	-
11	1.4	Landslip (10k)	0	0	0	0	-
12	<u>1.5</u>	<u>Bedrock geology (10k)</u>	1	0	0	0	-
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
14	<u>2.1</u>	<u>50k Availability</u>	Identified (within 500m)				
15	2.2	Artificial and made ground (50k)	0	0	0	0	-
15	2.3	Artificial ground permeability (50k)	0	0	-	-	-
16	2.4	Superficial geology (50k)	0	0	0	0	-
16	2.5	Superficial permeability (50k)	None (within 50m)				
16	2.6	Landslip (50k)	0	0	0	0	-
16	2.7	Landslip permeability (50k)	None (within 50m)				
17	<u>2.8</u>	<u>Bedrock geology (50k)</u>	1	0	0	0	-
18	<u>2.9</u>	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
18	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
19	3.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
20	<u>4.1</u>	<u>Shrink swell clays</u>	Moderate (within 50m)				
21	<u>4.2</u>	<u>Running sands</u>	Very low (within 50m)				
22	<u>4.3</u>	<u>Compressible deposits</u>	Negligible (within 50m)				
23	<u>4.4</u>	<u>Collapsible deposits</u>	Very low (within 50m)				
24	<u>4.5</u>	<u>Landslides</u>	Very low (within 50m)				
25	<u>4.6</u>	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				



Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
26	5.1	Natural cavities	0	0	0	0	-
27	5.2	BritPits	0	0	0	0	-
27	5.3	Surface ground workings	0	0	0	-	-
27	5.4	Underground workings	0	0	0	0	0
27	5.5	Historical Mineral Planning Areas	0	0	0	0	-
27	5.6	<u>Non-coal mining</u>	0	0	0	1	0
28	5.7	Mining cavities	0	0	0	0	0
28	5.8	JPB mining areas	None (within 0m)				
28	5.9	Coal mining	None (within 0m)				
28	5.10	Brine areas	None (within 0m)				
29	5.11	Gypsum areas	None (within 0m)				
29	5.12	Tin mining	None (within 0m)				
29	5.13	Clay mining	None (within 0m)				
Page	Section	Radon					
30	6.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
31	7.1	<u>BGS Estimated Background Soil Chemistry</u>	1	0	-	-	-
31	7.2	<u>BGS Estimated Urban Soil Chemistry</u>	2	4	-	-	-
32	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
33	8.1	Underground railways (London)	0	0	0	-	-
33	8.2	Underground railways (Non-London)	0	0	0	-	-
33	8.3	Railway tunnels	0	0	0	-	-
33	8.4	Historical railway and tunnel features	0	0	0	-	-
33	8.5	Royal Mail tunnels	0	0	0	-	-
34	8.6	Historical railways	0	0	0	-	-
34	8.7	Railways	0	0	0	-	-
34	8.8	Crossrail 1	0	0	0	0	-



34	8.9	Crossrail 2	0	0	0	0	-
34	8.10	HS2	0	0	0	0	-



Recent aerial photograph



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

Capture Date: 20/04/2015

Site Area: 0.07ha



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: 0.07ha



Recent site history - 1999 aerial photograph

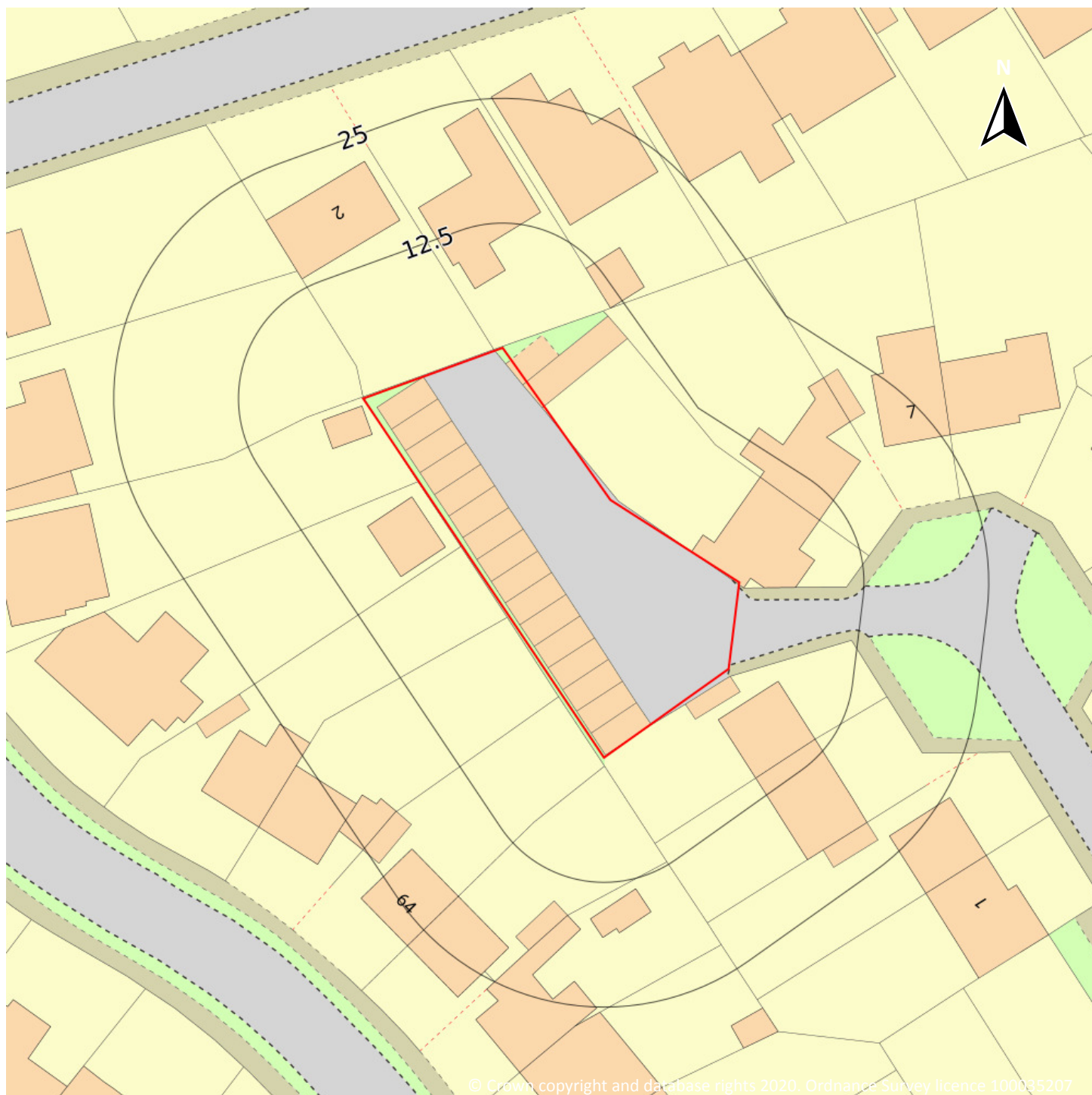


Capture Date: 29/08/1999

Site Area: 0.07ha



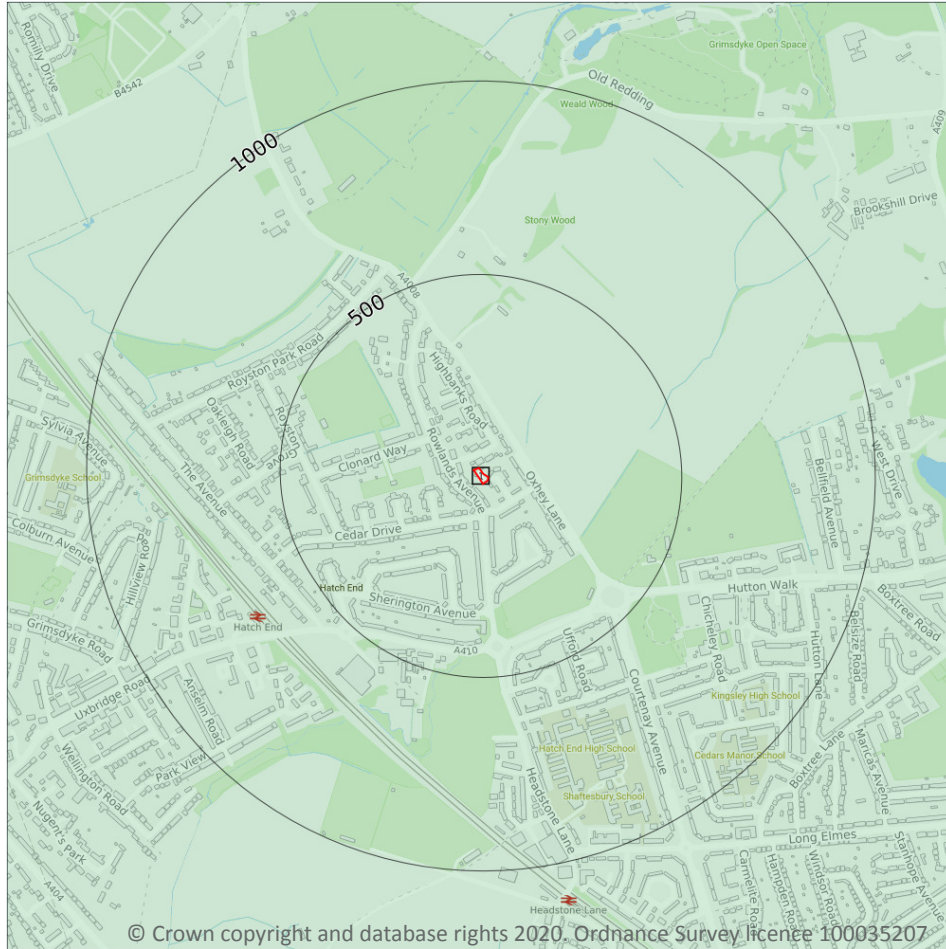
OS MasterMap site plan



Site Area: 0.07ha



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

1

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

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

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TQ19SW

This data is sourced from the British Geological Survey.



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

1.2 Artificial and made ground (10k)

Records within 500m

0

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.

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

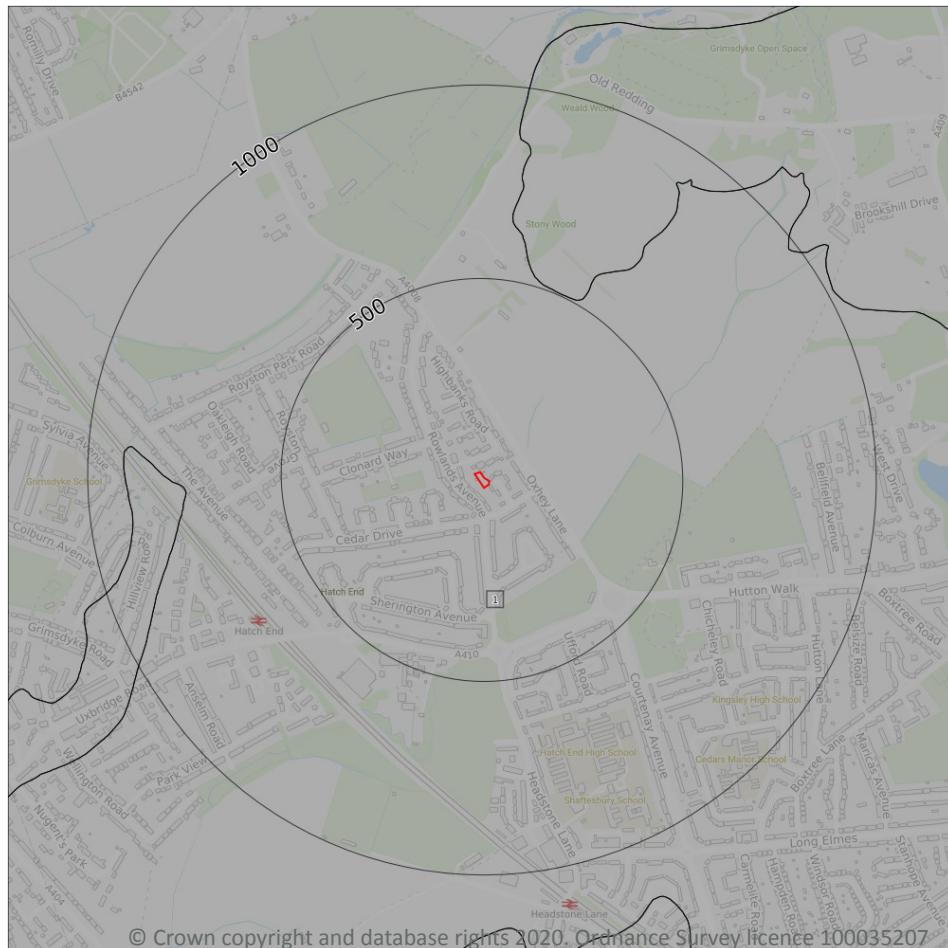
0

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

1

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	LC-CLAY	London Clay Formation - Clay	Eocene Epoch

This data is sourced from the British Geological Survey.



1.6 Bedrock faults and other linear features (10k)

Records within 500m

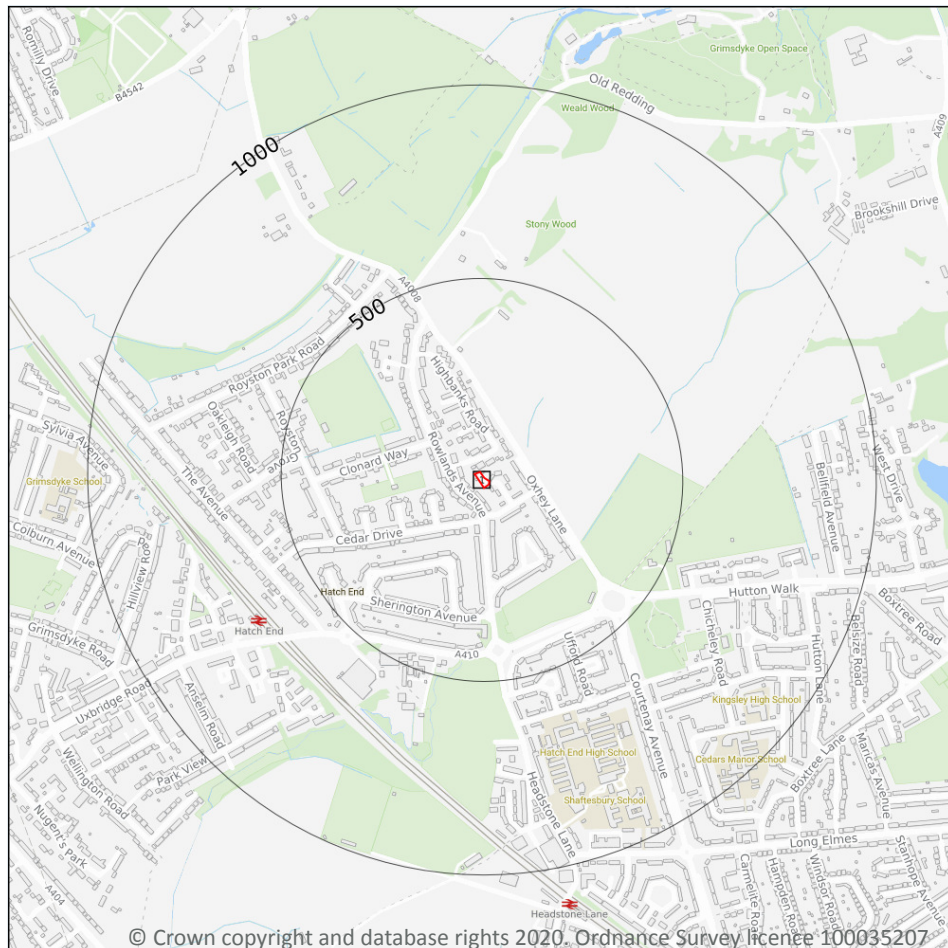
0

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

2.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

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

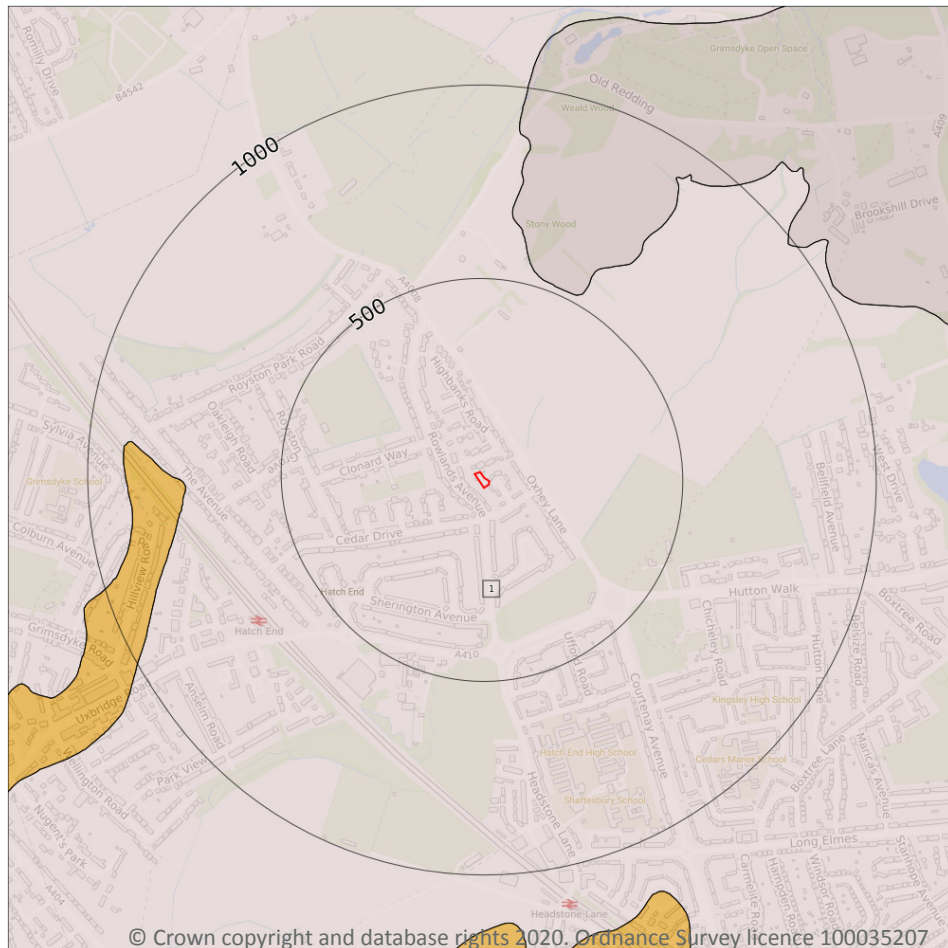
0

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

1

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 17**

ID	Location	LEX Code	Description	Rock age
1	On site	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

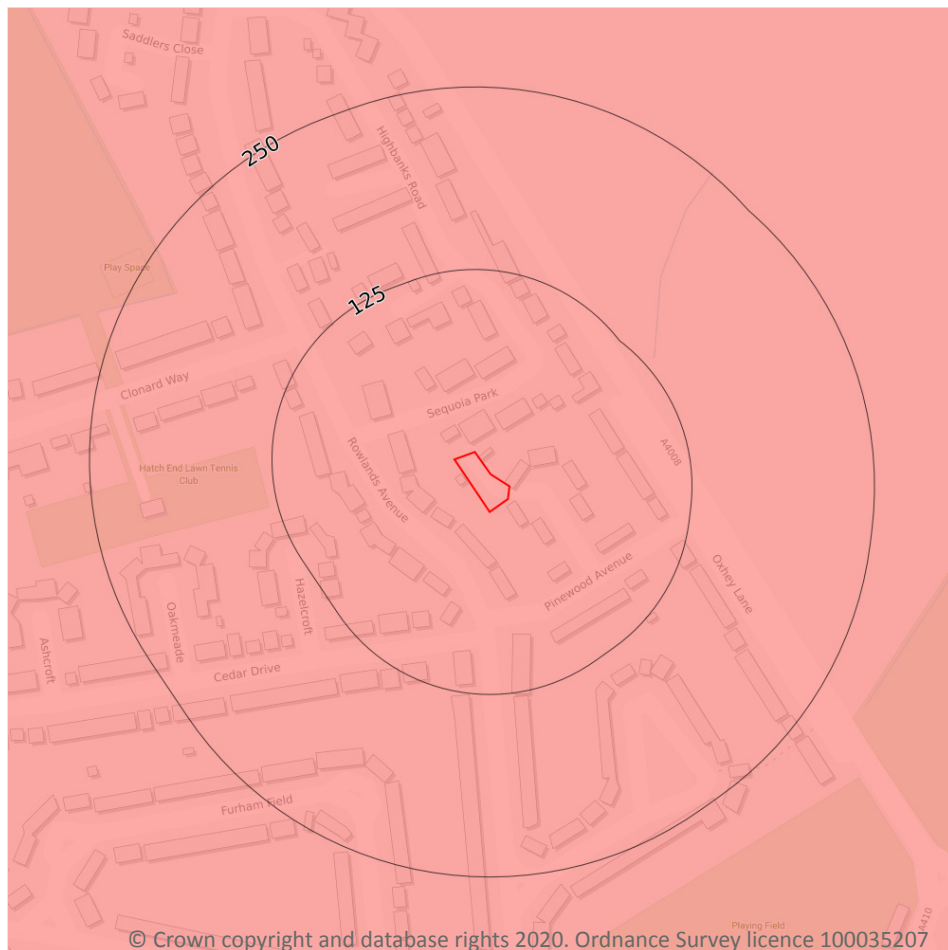
0

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).

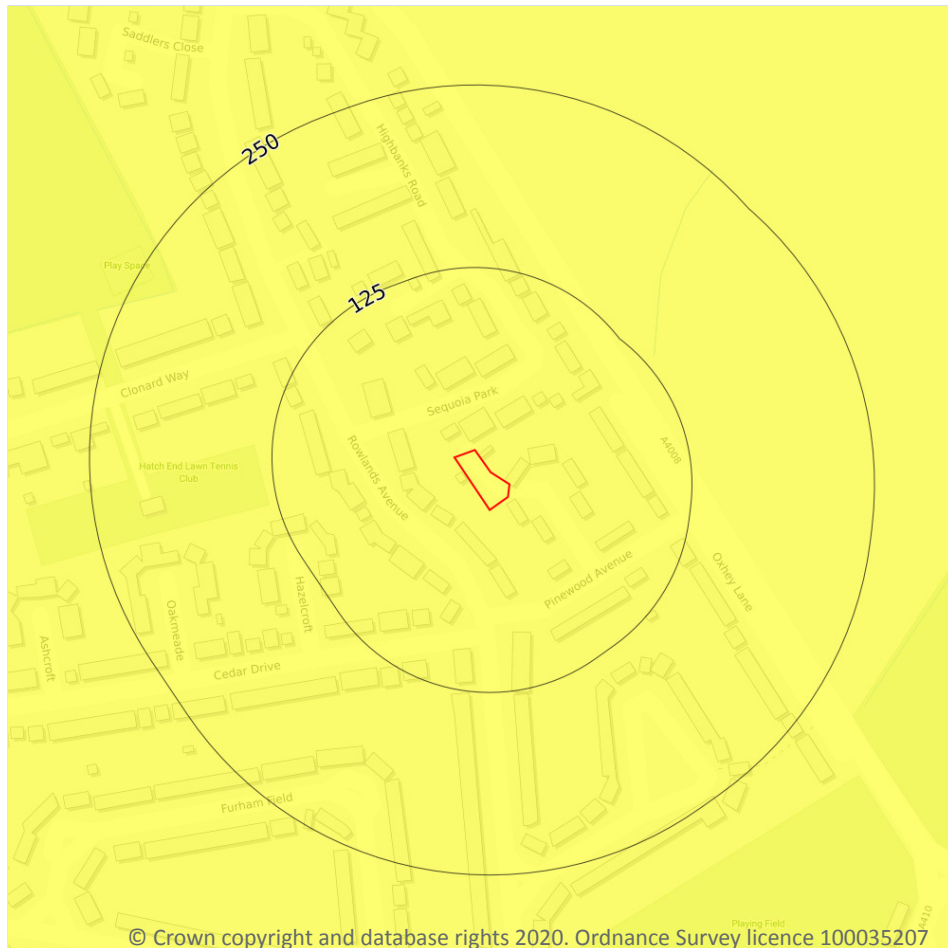
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 20**

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



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

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 21**

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



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

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.

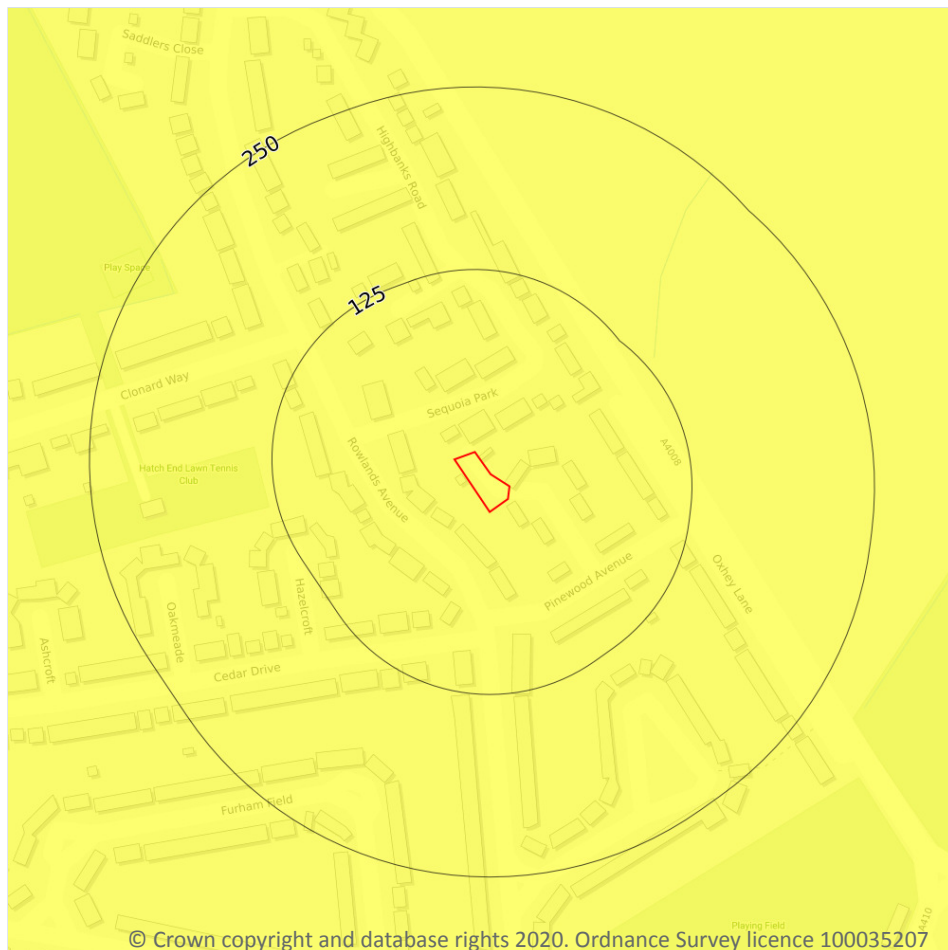
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 22**

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.

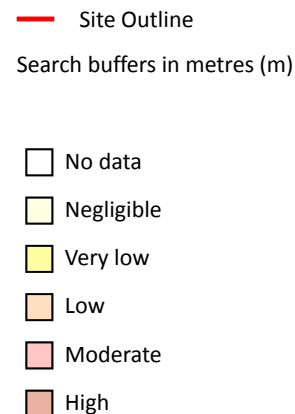
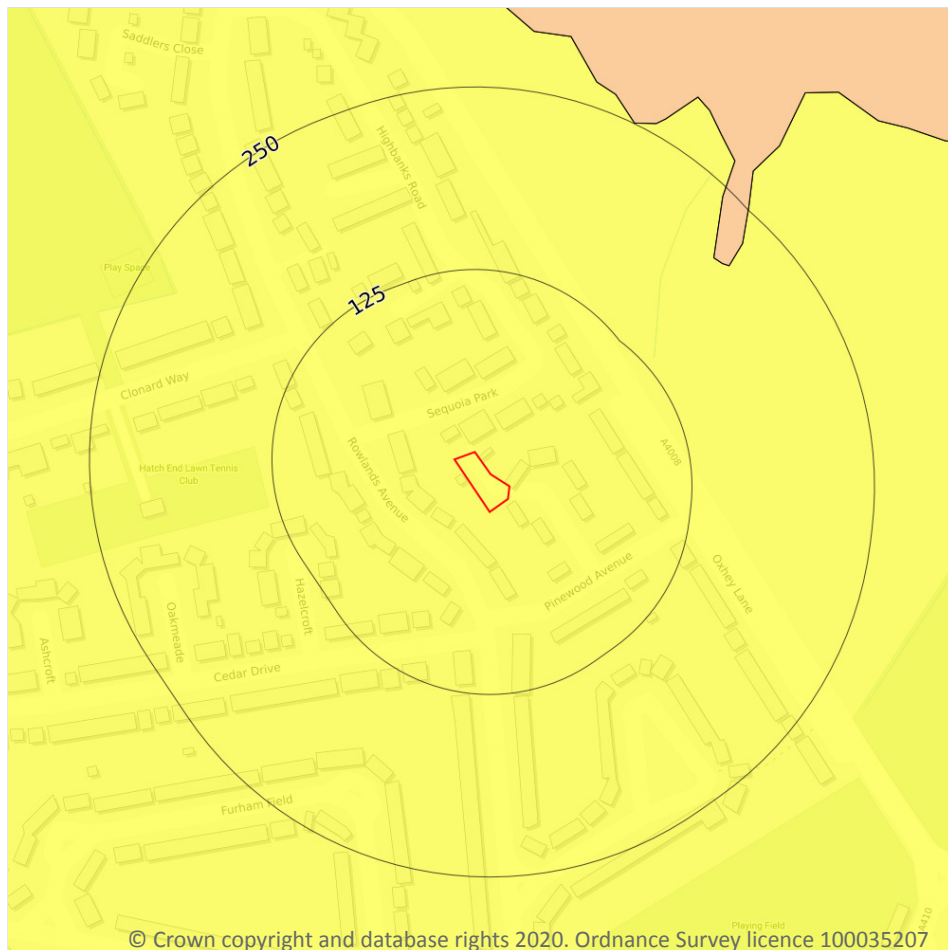
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 23**

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 24**

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.

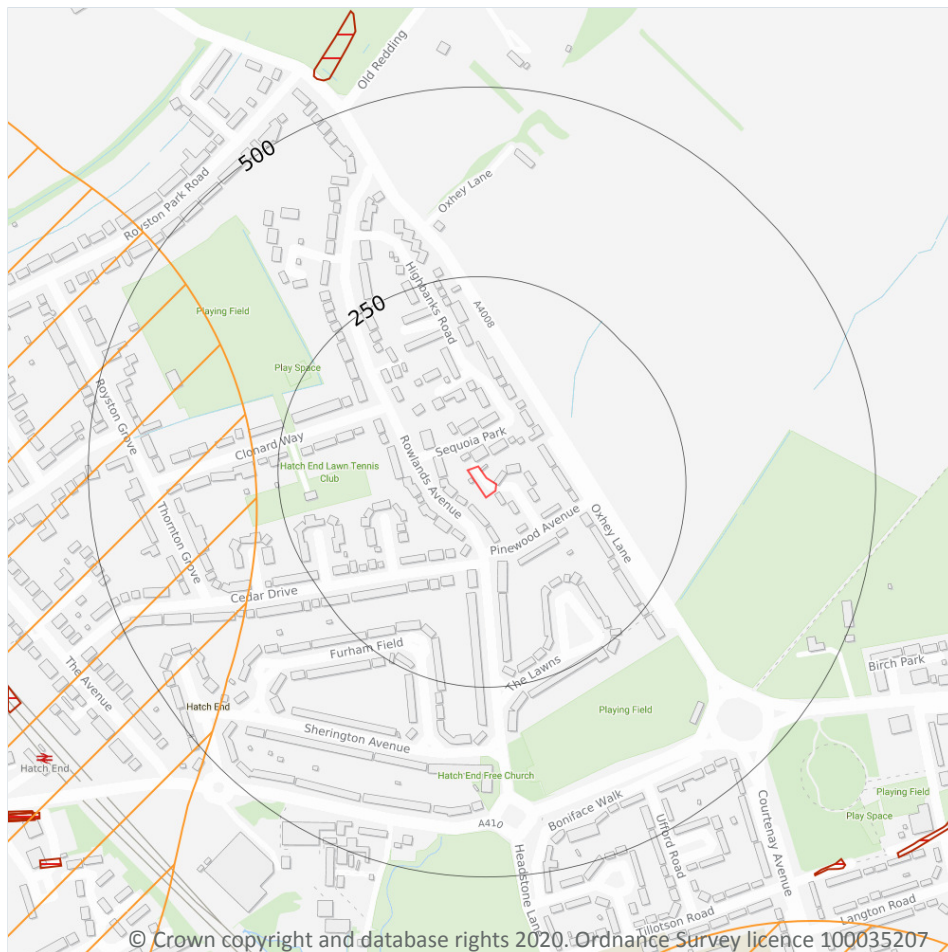
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 25**

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

0

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

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

5.2 BritPits

Records within 500m

0

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

This data is sourced from the British Geological Survey.

5.3 Surface ground workings

Records within 250m

0

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.

This 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

1

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 26**

ID	Location	Name	Commodity	Class	Likelihood
1	280m W	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

This data is sourced from the British Geological Survey.

5.7 Mining cavities

Records within 1000m	0
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Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

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

5.8 JPB mining areas

Records on site	0
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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
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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
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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
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

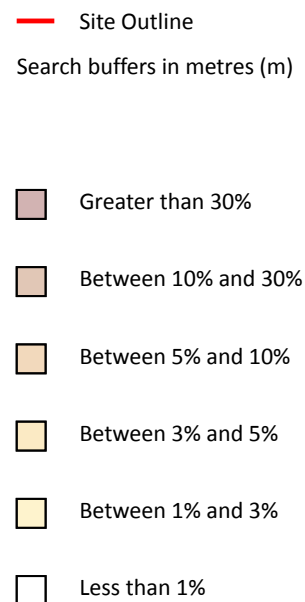
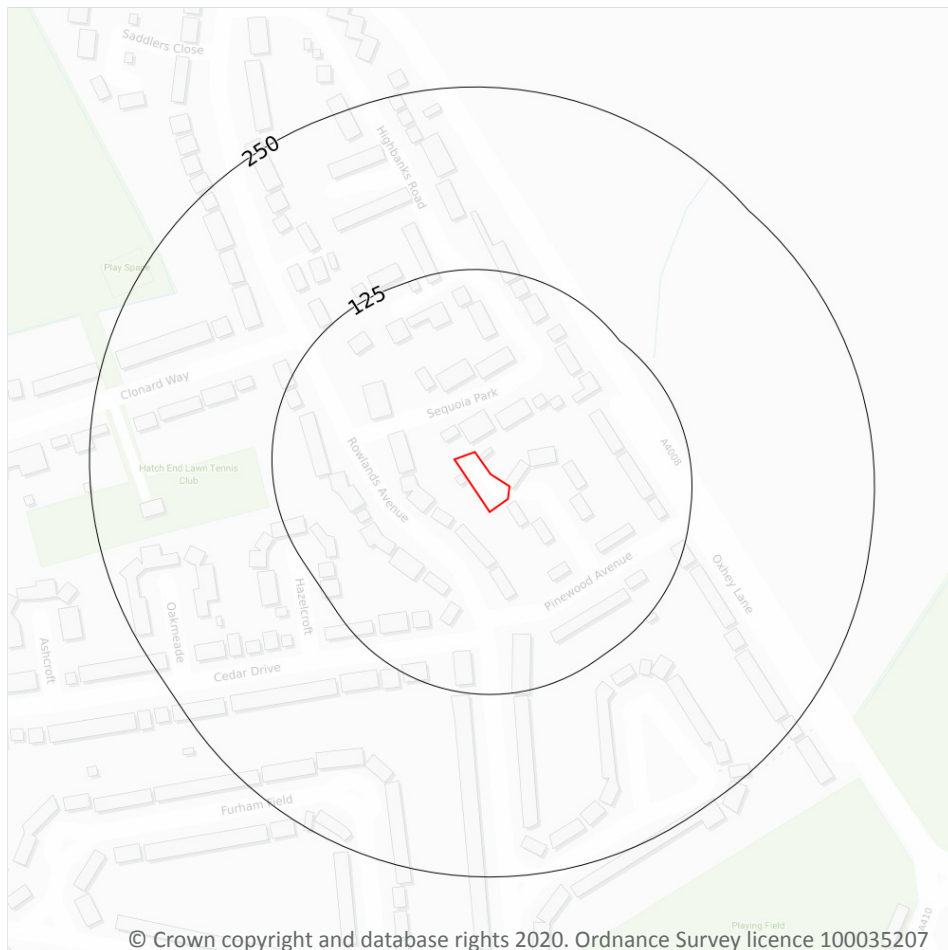
5.13 Clay mining

Records on site	0
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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 30**

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 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	No data	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	No data	No data

This data is sourced from the British Geological Survey.

7.2 BGS Estimated Urban Soil Chemistry

Records within 50m

6

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

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	15	2.6	381	262	-	79	62	27	16
On site	15	2.6	450	309	-	78	62	26	15
21m NW	15	2.6	265	182	-	85	54	30	13
23m SW	15	2.6	252	173	-	84	57	29	15
41m E	14	2.5	450	309	-	78	63	25	15
43m NE	14	2.5	567	390	-	75	66	24	15

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 km².

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
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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
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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
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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
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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
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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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