

# RUGBY CHAMBERS, LONDON

## Phase 1 Geo-environmental Preliminary Risk Assessment



794-PLN-LSE-00270

V1

R0

03 June 2024

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## Document status

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## Approval for issue

Jim Lightbown

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### Prepared for:

**The Governing Body of Rugby School**

# EXECUTIVE SUMMARY

Section	Summary
Background	RPS Consulting Services Ltd (RPS) was commissioned by The Governing Body of Rugby School (the client) to undertake a Phase 1 Geo-Environmental Preliminary Risk Assessment of the site known as of Rugby Chambers, 2 Rugby Street, London, WC1N 3QU (the 'site') in association with its proposed conversion to a residential end use.
Site Details	<p><b>Site area:</b> 0.02 Ha</p> <p><b>National Grid Coordinates:</b> 530708, 182024</p> <p><b>Current site use:</b> The site currently comprises a four-storey office building with a lower ground floor.</p> <p><b>Proposed site use:</b> It is understood that the client is to submit a planning application for a Permitted Development Prior Approval for a change of use from offices to 11 residential flats.</p> <p><b>Surrounding land use:</b> The site is located in an area of mixed residential and retail land uses.</p>
Site Inspection	A site inspection was undertaken on 24th May 2024 by an RPS Geo-environmental Consultant. No potentially significant sources of contaminants of concern nor any visual or olfactory evidence of contamination was noted during the site visit. The occupied office floors (from ground level to the third floor) could not be accessed as part of the walkover. The site contact advised that asbestos was not present within the building onsite. However, this asbestos survey has not been provided to RPS for review as part of this assessment.
Site History	<p>A review of historical mapping indicates the site has been occupied by the currently present reverse L-shaped building and courtyard since the earliest mapping available (c.1871). No alterations to the building plan appear to have taken place since c.1871, and building's use over time is unknown.</p> <p>Surrounding historical potential sources of contamination in the immediate vicinity of the site include ruins resulting from aerial bombing during WWII, depots, garages, various works, a smithy, timber yards, and a structure indicative of a petrol forecourt.</p>
Environmental Setting	<p>The site is indicated to be directly underlain by Lynch Hill Gravel Member (Secondary A Aquifer). Underlying the superficial deposits is the London Clay Formation bedrock (Unproductive Stratum), which is underlain, in turn, by the Lambeth Group, the Thanet Formation (both classified by the EA as a Secondary A Aquifer) and the White Chalk Subgroup (Principal Aquifer). The London Clay Formation is considered to likely limit the vertical, downwards migration of any groundwater, which may be present within the River Terrace Deposits.</p> <p>Made Ground may be present beneath the site as a result of the past construction of the current building onsite. However, it is anticipated that a significant volume of this would have been removed during excavation to accommodate the existing lower ground level.</p> <p>The site is not located within a groundwater Source Protection Zone. There are 30 records of active licensed groundwater abstractions recorded within 2km of the site. The closest active portable abstraction point is approximately c.895m north-east of the site and this is anticipated to be from the White Chalk Subgroup Principal Aquifer at depth.</p> <p>The nearest readily identifiable surface water feature is located approximately 1.3km to the south of the site, relating to the River Thames. Given the distance from the River Thames and other surface water features, they are not considered to be potentially sensitive receptors.</p>
Regulatory Consultation	The Environmental Health Officer at London Borough of Camden Council and the Environment Agency were contacted regarding any known contamination issues at the site. A response is still awaited.
Preliminary Risk Assessment	<p>An outline conceptual site model (CSM) has been derived on the basis of the desktop study and site reconnaissance.</p> <p>No current or historical onsite and current offsite potential significant sources of contaminants of concern have been identified onsite. However, a number of historical off-site potentially contaminative land uses have been identified.</p> <p>The site is understood to be situated above the Lynch Hill Gravel Member (Secondary A Aquifer) however, given the presence of the lower ground level, it is considered that a significant volume of this was removed during excavation works. Therefore, the potential for the on-site lateral migration of contaminants originating from off-site potential sources of contamination via groundwater and vice-versa is considered to be limited. The Lynch Hill Gravel Member is indicated to be underlain by the London Clay Formation, classified by the EA as an Unproductive Stratum, which will also likely restrict the downward migration of groundwater to the underlying strata.</p> <p>In areas of the site covered by buildings or hardstanding the risks to future on site human health receptors via the pathways of dermal contact and ingestion will be mitigated as the hardstanding will provide an adequate pathway break between the future site user and any potential contaminants within the shallow soils underlying the site.</p> <p>Based on the offsite sources encountered, there is considered to be a limited potential for volatile contaminants of concern in soil and/or groundwater (if present) beneath the site to impact future site users via the inhalation pathway in indoor areas.</p>
Conclusions and Recommendations	No significant potentially active potential pollutant linkages have been identified for the site and, on this basis, no further assessment is considered necessary.
Other Consideration	We recommend the following actions to reduce or clarify other potential environmental risks at the site:

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Section	Summary
	<ul style="list-style-type: none"><li>• It is recommended that a detailed desk based UXO assessment be carried out should any significant ground break be proposed as part of the conversion.</li><li>• Asbestos is not indicated to be present within building on site, however it is recommended that this is confirmed following a review of the Asbestos Survey for the site, prior to any demolition work.</li></ul>

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# 1 INTRODUCTION

## 1.1 Preamble

- 1.1.1 RPS Consulting Services Ltd (RPS) was commissioned by The Governing Body of Rugby School (the client) to undertake a Phase 1 Geo-Environmental Preliminary Risk Assessment of Rugby Chambers, 2 Rugby Street, London, WC1N 3QU (the 'site') in association with its change of use to 11 residential flats. A site location plan is presented as *Drawing 1*.
- 1.1.2 The site currently comprises a four-storey office building, including a lower ground floor level. The plot is roughly rectangular in shape and the building is reverse L-shaped. The site is located on the corner of Rugby Street to the south and Millman Street to the east. A site boundary plan is presented as *Drawing 2*.
- 1.1.3 The client is to submit a planning application for a Permitted Development Prior Approval for a change of use from offices to 11 residential flats. Proposed development plans are presented as *Appendix A*.
- 1.1.4 It is understood that this report is to be submitted to accompany the application for the proposed change of use of the site. Any geotechnical assessment has been excluded from this report on the basis that this is covered elsewhere.
- 1.1.5 The desktop study is based upon a review of published information available from local, regional, and national agencies, Enviro and Geo Insight Reports and historical mapping provided by Groundsure (ref. GS-P6L-WGK-KQM-LIH and GS-WJJ-HOI-FT3-5CA), a site visit undertaken by an RPS geo-environmental consultant on 24<sup>th</sup> May 2024 and consultations sought with the Environment Agency and London Borough of Camden (LBC) Council.

## 1.2 Objectives

- 1.2.1 The principal objectives of this assessment were as follows:
- To assess potential sources of contamination at the site, associated with historical and current land uses both on site and in the surrounding area;
  - To review the environmental setting to assess the sensitivity of the surrounding area to contamination / pollution;
  - To produce an outline Conceptual Site Model (CSM) detailing how any contamination may impact the identified receptors via pollutant linkages; and,
  - To conclude on the likely requirement for further geo-environmental assessment and investigation.

## 1.3 Legislation and Guidance

- 1.3.1 The assessment has been undertaken in general accordance with the following legislation and guidance:
- Environment Agency (2020) Land Contamination Risk Management (LCRM);
  - Contaminated Land (England) Regulations 2006 (as amended);
  - DEFRA Environmental Protection Act 1990: Part 2A - Contaminated Land Statutory Guidance (2012);
  - British Standard requirements for the 'Investigation of potentially contaminated sites - Code of practice' (ref. BS10175:2011+A2:2017).

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- National Planning Policy Framework (2023); and,
  - British Standard requirements for the 'Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings' (ref BS8485:2015+A1:2019).

1.3.2 Details of the limitations of this type of assessment are described in *Appendix B*.

## 2 SITE RECONNAISSANCE AND DESK STUDY

### 2.1 Site Reconnaissance

- 2.1.1 This section of the report is based upon observations made by an RPS Geo-environmental Consultant during a site visit carried out on 24<sup>th</sup> May 2024. At the time of the walkover no access was available to the offices on the ground floor to the 3<sup>rd</sup> floor.
- 2.1.2 A site boundary plan is provided as *Drawing 2*. Selected photographs taken during the site visit are shown in *Appendix C*.

#### The Site

**Table 2-1 – Site Information and Observations**

Section	Description
Background:	The site is located at Rugby Chambers, 2 Rugby Street, London, WC1N 3QU, at National Grid coordinates 530708, 182024 and occupies an area of approximately 0.02 Ha.
Site Layout:	The site is roughly rectangular in shape and comprises an office building and external courtyard with a lower ground floor. A lift was accessible on all floors. The entrance to 2 Rugby Street ( <i>Rugby Chambers</i> ) was via a door a on the southern side of the site. Access to the external lower ground floor level was also available via a metal staircase on the eastern side of the site.
Activity / Operations:	Offices on the lower ground floor to the third floor were occupied by tenants, however the fourth floor remained vacant at the time of the walkover. The lift maintenance room, boiler room and electric meter cupboard were all situated on the lower ground floor.
Building Structure(s):	<i>Rugby Chambers</i> comprised a four-storey building of brick construction with a tiled roof. Steel fencing bordered the southern and eastern sides of the site and acted as a barrier between the pavement and the drop to the lower ground floor level.
Topography / Surface Cover:	The site topography was generally flat. The building footprint covered approximately 90% of the site, with hardstanding in the external areas on the lower ground floor covering the remaining area. The hardstanding in the external courtyard comprised stone paving slabs in moderate to poor condition.
Drainage:	Utility covers and surface water drains were noted in the external courtyard area in the north-western corner of the site, and external area on the lower ground floor on the northern and eastern sides of the site. No evidence of oil / water interceptors was observed during the site walkover. No drainage plans have been made available for review as part of this assessment.
Hazardous Substance Storage / Bulk Storage / Tanks:	No bulk storage of fuels was observed on-site during the site visit.
Waste:	The site contact advised that the site did not have external bins, and that general and recycling waste was collected by the Council in bin bags on the northern side of the site.
Electricity Sub-Stations / Transformers:	No electricity sub-stations or transformers were observed during the site walkover.
Evidence of Contamination:	No visual or olfactory evidence of contamination was noted during the site visit.



Section	Description
Statutory Nuisance:	No evidence of statutory nuisance was observed during the site walkover. No other issues relating to pollution, noise, air emissions, traffic, or odour were made aware to RPS.
Other Environmental Issues:	During the site visit, the site contact advised that a full asbestos survey was carried out for the building. The asbestos survey was not observed during the walkover, however the site contact confirmed the building was clear of asbestos. Based on the above, it is recommended that the asbestos survey is reviewed prior to any demolition works commencing.

## The Surrounding Area

2.1.3 The site is located in an area of mixed residential and retail land uses. At the time of the site inspection, neighbouring land consisted of the following:

**Table 2-2 – Neighbouring Land Uses**

Direction	Description
North:	Residential flats with a garden appear to be situated immediately north of the site, with additional residential flats, Great Ormond Street and Zayed Centre for Research situated beyond.
East:	A public pavement with Millman Street adjacent bound the east of the site, beyond which is the Saint George the Martyr C of E Primary School and associated outdoor play areas.
South:	A public pavement with Rugby Street adjacent bound the south to the site. Residential flats and retail businesses are situated beyond.
West:	Residential flats with a garden appear to be situated immediately west of the site, with additional residential flats, retail properties and Lamb's Conduit (road) situated beyond.

## 2.2 Proposed Development

2.2.1 The proposed development involves converting the existing offices into 11 residential flats. Two flats are proposed to be constructed on each floor from the ground to the fourth floor, except for the lower ground floor, which will accommodate only one flat. The lower ground floor will also house BCWS tanks, an electrical plant room, a sprinkler tank room, a bin storage area, and bike storage areas. A lift will be accessible on all floors. Access to the outdoor area, located in the north-western corner of the site, will be available from the lower ground floor. No soft landscaping areas appear to be proposed in the development plans.

2.2.2 The proposed development plans are presented as *Appendix A*.

## 2.3 Site History

### Historical Map Review

2.3.1 The following review is based on past editions of readily available Ordnance Survey (OS) maps. These include scales of 1:1,056, 1:1,250, 1:2,500, 1:10,000 and 1:10,560, dated 1871 to 2024 as well as satellite imagery from between 1999 to 2022. Historical mapping and satellite imagery are presented in *Appendix D*.

**Table 2-3 – Historical Site Uses**

On-site Land Use and Features	Dates
The site has been occupied by a reverse L-shaped building of unknown use and a courtyard since the earliest mapping available. No alterations to the building plan appear to have taken place since c.1871 and the site resembles the present-day layout.	From at least 1871 to Present

2.3.2 Potentially contaminative land uses within 200m of the site have been summarised within the table below.

**Table 2-4 – Historical Potentially Contaminative Land Uses within 200m of the Site (all distances are approximate)**

Surrounding Land Uses (200m radius)	Orientation	Distance (m)	Dates	
			From	To
Ruins	South-west	From 65m	1951	1958
	East	70m	1951	1958
	North-west	160m	1951	1958
Council Depot	South-east	80m	1951	Present
Garage	South-east	95m	1958	1973
Engineering Works <i>Then Works</i>	North-east	145m	1951 1958	1958 1995
Printing Works <i>Then Works</i>	North-west	150m	1951 1958	1958 1982
Timber Yard <i>Then Depot</i>	North-west	160m	1951 1958	1958 1973
Smithy	North-east	175m	1916	1951
Garage (structure is indicative of a petrol forecourt)	North-east	180m	1973	1991
Timber Yard	North-west	185m	1877	1896

## Site Planning History

2.3.3 A review of London Borough of Camden Council's Planning Portal indicates that there are four refused historical planning applications related to the site, all dated between 1977 and 1980. No documents pertaining to the assessment of contaminated land were readily identifiable for any of these entries.

## 2.4 Environmental Setting

### Geology

2.4.1 Based on the British Geological Survey (BGS) GeoIndex Onshore website and BGS Map Sheet 256 North London Bedrock and Superficial dated 2006 (1:50,000 scale) and the DEFRA's Magic Maps Website. The stratigraphic sequence and aquifer classifications beneath the site are indicated to be as follows:

**Table 2-5 – Descriptions of Geological Strata**

<b>Strata</b>	<b>Description</b>	<b>Aquifer Classification</b>
Lynch Hill Gravel Member	Gravel with subsidiary clay and sand	Secondary A Aquifer
London Clay Formation	Clay and silt	Unproductive Stratum
Lambeth Group	Clay, silt, and sand	Secondary A Aquifer
Thanet Formation	Fine-grained sand	Secondary A Aquifer
White Chalk Subgroup	Nodular chalk bedrock with flints	Principal Aquifer

2.4.2 Made Ground may be present beneath the site as a result of the past construction, albeit limited. However, it is anticipated that this would have been removed during excavation to accommodate the existing lower ground level.

2.4.3 No borehole records were available for the site on the BGS GeoIndex website however the closest available borehole log is recorded approximately 30m north of the site which was drilled in November 1915. The borehole log records Made Ground to a depth of approximately 3.35m below ground level (bgl), followed by a 'brown sandy clay' (considered to be the Lynch Hill Gravel Member) to a depth of approximately 4.26m bgl. This was underlain by the London Clay Formation to an approximate depth of 18.89m bgl, which in turn was underlain by the 'mottled Reading Clay' (now referred to as the Lambeth Group) to an unproven depth of approximately 25.98m bgl.

2.4.4 A further BGS record for a borehole located approximately 98m to the south-west of the site encountered the following in sequential order:

- Made Ground comprising fill (brick, ashes etc.) encountered to a depth of 0.91m bgl;
- 'Medium sand and gravel' and 'soft dark brown clay' (considered to be the Lynch Hill Gravel Member) to a depth of 3.04m bgl;
- 'Stiff grey-blue fissured clay getting sandy with depth' (indicative of the London Clay Formation) encountered to an unproven depth of 31.39 bgl;
- 'Stiff green, grey and brown mottled silty sandy clay, traces of gravel at 32.91' (indicative of the Lambeth Group) encountered to an unproven depth of 32.92 bgl; and,
- Groundwater strikes were encountered at 4.57m bgl and 16.00 bgl within sand and gravel lenses.

## Hydrogeology

2.4.5 The site is indicated to be located above a Secondary A Aquifer (Lynch Hill Gravel Member). Secondary A Aquifer formations comprise permeable layers that can support local water supplies. Underlying the superficial deposit is an Unproductive Stratum relating to the London Clay Formation bedrock. Unproductive Strata have a low permeability and have a negligible significance for water supply or base flow. The London Clay Formation is underlain, in turn, by the Lambeth Group, Thanet Formation and White Chalk Subgroup. Both the Lambeth Group and Thanet Formation are classified as Secondary A Aquifers and the White Chalk Subgroup as a Principal Aquifer. Principal Aquifers can provide significant quantities of water and can support water supply and/or baseflow to rivers, lakes and wetlands on a strategic scale.

2.4.6 It is considered that the London Clay Formation will limit the vertical migration of any groundwater, which may be present within the Lynch Hill Gravel Member, to Secondary A and Principal Aquifers underlying the London Clay Formation.

2.4.7 Furthermore, given the presence of the lower ground level, it is likely that a significant thickness of the Lynch Hill Gravel Member would have been removed during the excavation works.

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- 2.4.8 According to EA data, the site is not located in a groundwater Source Protection Zone (SPZ) and is situated in an area of low groundwater vulnerability. However, the Groundsure report indicates the site is situated in an area of a medium groundwater vulnerability.
- 2.4.9 Information contained within the Groundsure report indicates that there are 30 records of active licensed groundwater abstractions within 2km of the site with the closest being c.860m west relating to a heat pump. The closest active potable abstraction point is approximately c.895m north-east of the site, which is used for drinking, cooking, sanitary, and washing purposes.

## Surface Water

- 2.4.10 The closest readily identifiable surface water body is the River Thames, located approximately 1.3km to the south of the site.
- 2.4.11 Information contained within the Groundsure report indicates that there are no records of active licensed surface water abstractions within 1km of the site.

## Ecologically Sensitive Sites

- 2.4.12 Natural England data indicates that there are no ecologically sensitive sites, that constitute environmental receptors as defined within Table 1 of the DEFRA Environmental Protection Act 1990: Part 2A - Contaminated Land Statutory Guidance (2012), located within a 1km radius of the site.

## Radon

- 2.4.13 According to the Indicative Atlas of Radon in England and Wales published by the Health Protection Agency (part of Public Health England) and the British Geological Survey, the site is located in an area at lowest band of radon potential where less than 1% of homes are at or above the Action Level.

## Coal Authority

- 2.4.14 The Interactive Map Viewer on the Coal Authority website indicates that the site is not located in a coal mining reporting area.

## Non-Coal Mining

- 2.4.15 The site is not indicated to be in an area affected by non-coal mining.

## 2.5 Authorised Processes and Pollution Incidents

### Landfills and Waste Sites

- 2.5.1 Data provided by the BGS indicates there are no records of historical, active or recent landfills within 500m of the site.
- 2.5.2 Furthermore, there are no historical waste sites within 250m of the site.

### Environmental Permits

- 2.5.3 EA and Local Authority data indicates that there are five active processes regulated by an Environmental Permit (under the Environmental Permitting Regulations 2010) within 500m of the subject site. The closest permitted process is situated c.190m south of the site and relates to dry

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cleaning, which given the distance to the site and underlying geology, is not considered to be a potentially significant source of contaminants of concern. The other four permitted processes also relate to dry cleaning.

## COMAH Sites

- 2.5.4 There are no records of any operations under the Control of Major Accident Hazards (COMAH) Regulations 1999, located within 500m of the site.

## Pollution Incidents

- 2.5.5 EA data and the Groundsure Report indicates that there are no records of 'major' or 'significant' pollution incidents relating to water or land within 500m of the site.

## 2.6 Unexploded Ordnance

- 2.6.1 CIRIA Report C681 (stone *et al.* 2009) outlines recommendations for dealing with the potential risk associated with the legacy of Unexploded Ordnance Risk, largely relating the WWII bombing and military sites.
- 2.6.2 Reference to the Zetica Unexploded Bomb Risk mapping indicates that the site is in an area of a high potential risk from Unexploded Bombs. However, London County Council Bomb Damage Maps indicate the onsite building and immediate surrounding area was not impacted from aerial bombing during WWII.
- 2.6.3 It is recommended that a preliminary UXO desk-based assessment be undertaken should any significant ground break be proposed as part of the conversion,.

## 2.7 Regulatory Consultations

- 2.7.1 The Environmental Health Officer at London Borough of Camden Council and the Environment Agency were contacted regarding any known contamination issues at the site. A response is still awaited.

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## 3 OUTLINE CONCEPTUAL SITE MODEL

### 3.1 Background

3.1.1 An outline conceptual site model (CSM) consists of an appraisal of the *source-pathway-receptor* 'contaminant linkages' which is central to the approach used to determine the existence of 'contaminated land' according to the definition set out under Part 2A of the Environmental Protection Act 1990. For a risk to exist (under Part 2A), all three of the following components must be present to facilitate a potential 'pollutant linkage'.

- **Source** referring to the source of contamination (Hazard);
- **Pathway** for the contaminant to move/migrate to receptor(s); and,
- **Receptor** (Target) that could be affected by the contaminant(s).

3.1.2 Receptors include human beings, controlled waters and buildings / structures. The National Planning Policy Framework, used to address contaminated land through the planning process, follows the same principles as those set out under Part 2A. Further details on the Part 2A regime are presented within *Appendix F*.

3.1.3 As part of the assessment the potential risks to receptors for potential source is given one of the following classifications:

- **Low risk** - it is considered unlikely that issues within the category will give rise to significant harm to identified receptors;
- **Moderate risk** - it is possible, but not certain that issues within the category will give rise to significant harm to receptors; and,
- **High risk** - there is a high potential that issues within the category will give rise to significant harm to identified receptors.

### 3.2 Potential Pollutant Linkages

3.2.1 Each stage of the potential pollutant linkage sequence has been assessed individually on the basis of information obtained during the site reconnaissance and desk study exercise and are discussed in the following section.

#### Potential Contaminant Sources

##### On-site – Current

3.2.2 No current potential significant sources of contaminants of concern have been identified onsite.

##### On-site – Historical

3.2.3 No historical potential significant sources of contaminants of concern have been identified onsite.

##### Off-site – Current

3.2.4 Current off-site potential sources of contaminants of concern are limited to the 'Council Depot' situated c.80m south-east of the site.

##### Off-Site – Historical

3.2.5 Historical off-site potentially contaminative land uses include ruins (1951-1958) from c.65m of the site in the surrounding area, a garage c.95m south-east (1958-1971) and c.240m north-west (1951-

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1958), engineering works (1951-1958) from c.145m north-west, works (1958-1995) from c.145m north-west, printing works (1951-1958) c.150m north-west, timber yard (1951-1958) from c.160m north-west, depot (1958-1973) c.160m north-west, a smithy (1951-1958) c.175m north-east, and a structure indicative of a petrol forecourt c.180m north-east.

## Potential Pathways

- 3.2.6 The proposed development is understood to involve converting the existing offices into residential flats. At the time of writing, no soft landscaped areas are proposed.
- 3.2.7 In areas of the site covered by buildings or hardstanding the risks to future on site human health receptors via the pathways of dermal contact and ingestion will be mitigated as the hardstanding will provide an adequate pathway break between the future site user and any potential contaminants within the shallow soils underlying the site.
- 3.2.8 Significant ground break is not anticipated as part of the conversion process.
- 3.2.9 Based on the offsite sources encountered, there is considered to be a limited potential for volatile contaminants of concern in soil and/or groundwater (if present) beneath the site to impact future site users via the inhalation pathway in indoor areas.
- 3.2.10 The site is understood to be situated above the Lynch Hill Gravel Member (Secondary A Aquifer) however, given the presence of the lower ground level, it is considered that a significant volume of this was removed during excavation works. Therefore, the potential for the on-site lateral migration of contaminants originating from off-site potential sources of contamination via groundwater and vice-versa is considered to be limited.
- 3.2.11 The Lynch Hill Gravel Member is indicated to be underlain by the London Clay Formation, classified by the EA as an Unproductive Stratum, which will also likely restrict the downward migration of groundwater to the underlying strata.

## Potential Receptors

- 3.2.12 Potential human health receptors include future residents, visitors and off-site users, including the school (Saint George the Martyr C of E Primary School) located c.20m east.
- 3.2.13 Whilst the site is located above a Secondary A Aquifer relating to the Lynch Hill Gravel Member which could allow for lateral and vertical migration of contaminants onto the site, a significant thickness of this stratum is likely to have been removed during excavation to accommodate the lower ground level. This leaves the impermeable London Clay Formation, which will restrict any lateral migration of contaminants. The site is not located within a groundwater SPZ.
- 3.2.14 The presence of a significant thickness of the relatively impermeable London Clay Formation will restrict the downward migration of any contaminants of concern (if present) within groundwater towards to the underlying Secondary A and Principal Aquifers at depth.
- 3.2.15 There are 30 records of active licensed groundwater abstractions within 2km of the site. The closest active portable abstraction point is approximately c.895m north-east of the site and this is anticipated to be from the White Chalk Subgroup Principal Aquifer at depth. Given this depth and its distance from the site, this feature is not considered a potentially sensitive receptor.
- 3.2.16 The nearest readily identifiable surface water feature is located approximately 1.3km to the south of the site, relating to the River Thames. Given the distance from the River Thames and other surface water features, they are not considered to be potentially sensitive receptors.
- 3.2.17 Built environment receptors include future on site buildings and below ground utility lines.

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3.2.18 Providing construction workers adopt appropriate levels of hygiene and personal protective equipment, they are not considered to be at significant risk from potential contaminants of concern and have not been considered further as part of this assessment.



### 3.3 Outline Conceptual Site Model

3.3.1 An outline CSM has been developed on the basis of the site reconnaissance and desk study. The CSM is used to identify potential sources, pathways and receptors (i.e. potential pollutant linkages) on-site post change of use and is summarised in the table below.

**Table 3-1 – Outline Conceptual Site Model**

Potential Source	Contaminants of Concern	Via	Potential Pathways	Linkage Potentially Active?	Receptors	Qualitative Risk Rating	Notes
<b>On site – current:</b> No significant sources identified.  <b>On site – historical:</b> No significant sources identified.	N/A	Air	Direct contact / ingestion	*	Future site users Off-site users	NA	No significant sources of contamination have been identified on site. The site will also be covered by the building or hardstanding which should act as an adequate pathway break between any potentially impacted soils and future site users.
			Inhalation of volatiles	*		NA	No potentially significant sources of ground gas or vapours have been identified on site.
		Soil	Airborne migration of soil or dust	*	Off-site users	NA	No significant sources of contamination have been identified on site. Furthermore, during development activities it is unlikely that potential for impacted soil, potentially present underlying the site, to be disturbed during development activities with airborne migration off-site.
			Leaching of mobile contaminants	*	Secondary A Aquifer (Lynch Hill Gravel Member)	NA	Whilst the site is located above a Secondary A Aquifer (Lynch Hill Gravel Member) which could allow for lateral and vertical migration of contaminants onto the site, a significant thickness of this stratum is likely to have been removed to accommodate the lower ground level. This would leave the underlying impermeable London Clay Formation, which will restrict any migration of contaminants.  The site also comprises complete building cover and hardstanding which would limit the potential for the infiltration of rainwater and subsequent leaching of contaminants (if present) beneath the site.

Potential Source	Contaminants of Concern	Via	Potential Pathways	Linkage Potentially Active?	Receptors	Qualitative Risk Rating	Notes
		Groundwater	Direct contact / ingestion	× ×	Future site users Off-site users	NA	Inactive in areas of building or hardstanding. Residual risk in areas of soft landscaping that can be readily disturbed however no significant sources of contamination were identified onsite.
			Inhalation of volatiles	× ×	Future site users Off-site users	NA	No potentially significant sources of ground gas or vapours have been identified on site.
			Vertical migration across permeable strata	× × ×	Shallow Secondary A Aquifer Deeper Secondary A Aquifers Principal Aquifer	NA	A significant thickness of the Secondary A Aquifer (Lynch Hill Gravel Member) is likely to have been removed to accommodate the lower ground level. The presence of a significant thickness of the relatively impermeable London Clay Formation will limit vertical downwards migration of groundwater to more sensitive controlled waters receptors.
<b>Off-site – current:</b> No significant sources identified. <b>Off-site – historical:</b> Made Ground, ruins, depot, garages, various works, smithy, timber yards, and a structure indicative of a petrol forecourt.	Metals, hydrocarbons, and VOCs.	Groundwater	Direct contact / ingestion	×	Future site users	NA	The site will predominantly be covered by building or hardstanding which should act as an adequate pathway break between any potentially impacted groundwater and future site users.
			Inhalation of volatiles	✓	Future site users	Low	Limited potential for off-site sources of volatile contaminants of concern. Lateral onsite migration of contaminants via groundwater is considered to be limited by the likely removal of the Secondary A Aquifer (Lynch Hill Gravel Member) and the presence of the underlying unproductive stratum (London Clay Formation).
<b>On and off-site</b> Made Ground, biodegradation of contamination (if present)	Carbon dioxide and methane	Ground Gas	Inhalation of ground gas	×	Future site users	NA	Made Ground beneath the site of significant age and likely to have been removed to accommodate the lower ground level. No significant sources of ground gas generation identified in the surrounding area.
			Explosive risks	× ×	Future site users Future Structures		

Note In the event that a Low to Moderate to High Qualitative Risk Rating is identified further assessment is recommended.

3.3.2 Based on the identified potential sources and the site setting there is not considered to be a significant risk to ecological receptors, crops/vegetation or archaeological receptors.

---

## 4 CONCLUSIONS AND RECOMMENDATIONS

4.1.1 No potentially active potential pollutant linkages have been identified for the site and, on this basis, no further assessment is considered necessary.

### Other Considerations

4.1.2 We recommend the following additional actions to reduce or clarify other potential environmental risks at the site:

- It is recommended that a detailed desk based UXO assessment be carried out should any significant ground break be proposed as part of the conversion.
- Asbestos is not indicated to be present within building on site, however it is recommended that this is confirmed following a review of the Asbestos Survey for the site, prior to any demolition work.

---

## REFERENCES

British Geological Survey (BGS) Onshore GeoIndex. [online] available at: <http://www.bgs.ac.uk/geoindex/> (Accessed 17<sup>th</sup> May 2024).

BGS Map Sheet 256 North London Bedrock and Superficial, dated 2006 (1:50,000 scale)

Building Research Establishment (2008): Guidance for the Safe Development of Housing on Land Affected by Contamination. R&D Publication 66.

British Standards Institution (2019): Soil quality — Conceptual site models for potentially contaminated sites. BS EN ISO 21365:2019

Environment Agency 2020: Land Contamination: Risk Management (LCRM 2020).

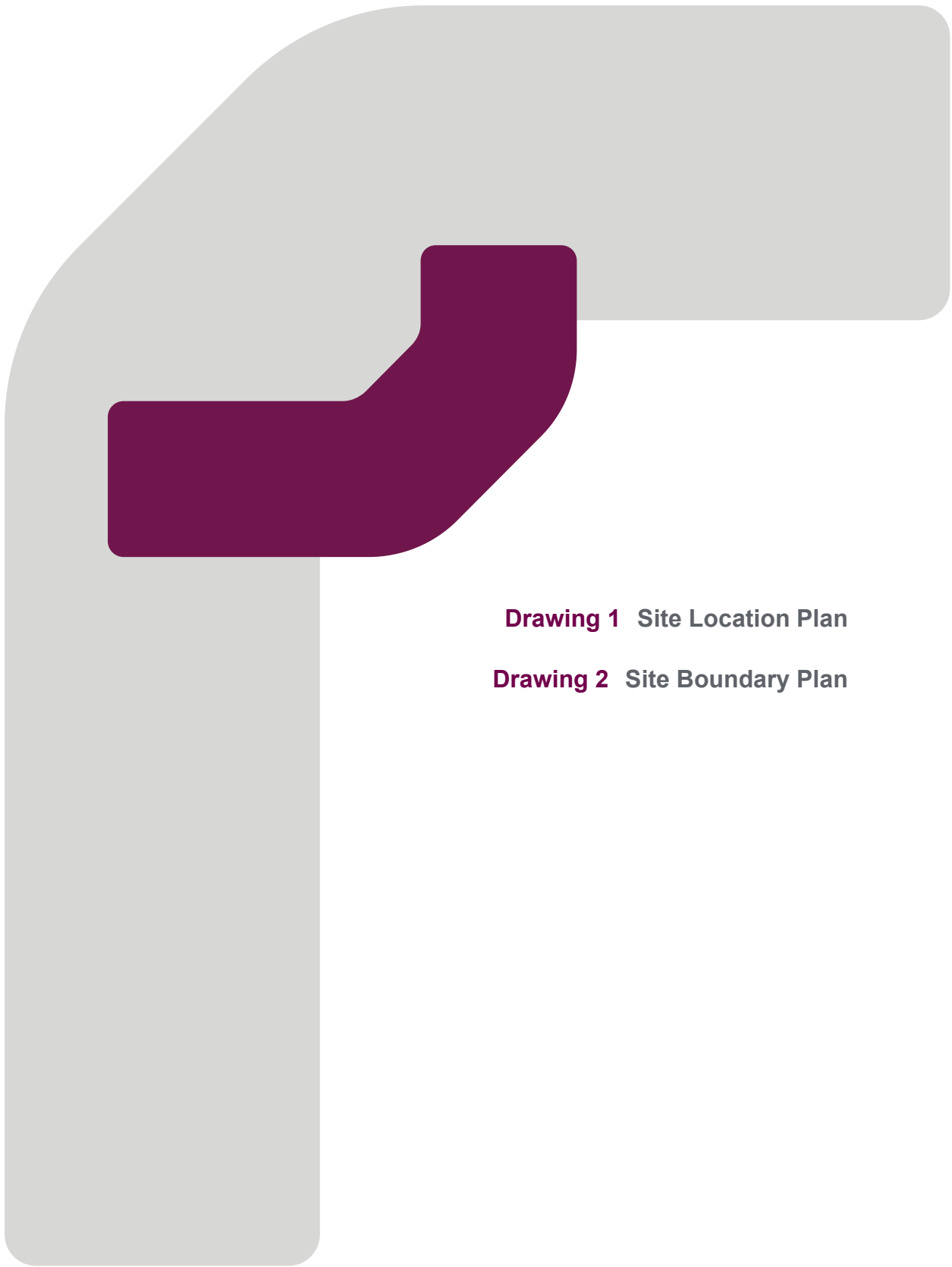
The London Borough of Camden Council's Planning Portal Website available at: <https://planningrecords.camden.gov.uk/NECSWS/PlanningExplorer/GeneralSearch.aspx> (accessed 17<sup>th</sup> May 2024).

Magic Maps website available at: <https://magic.defra.gov.uk/> (accessed 17<sup>th</sup> May 2024).

The Coal Authority, Interactive Maps available at: <https://mapapps2.bgs.ac.uk/coalauthority/home.html> (accessed 17<sup>th</sup> May 2024)

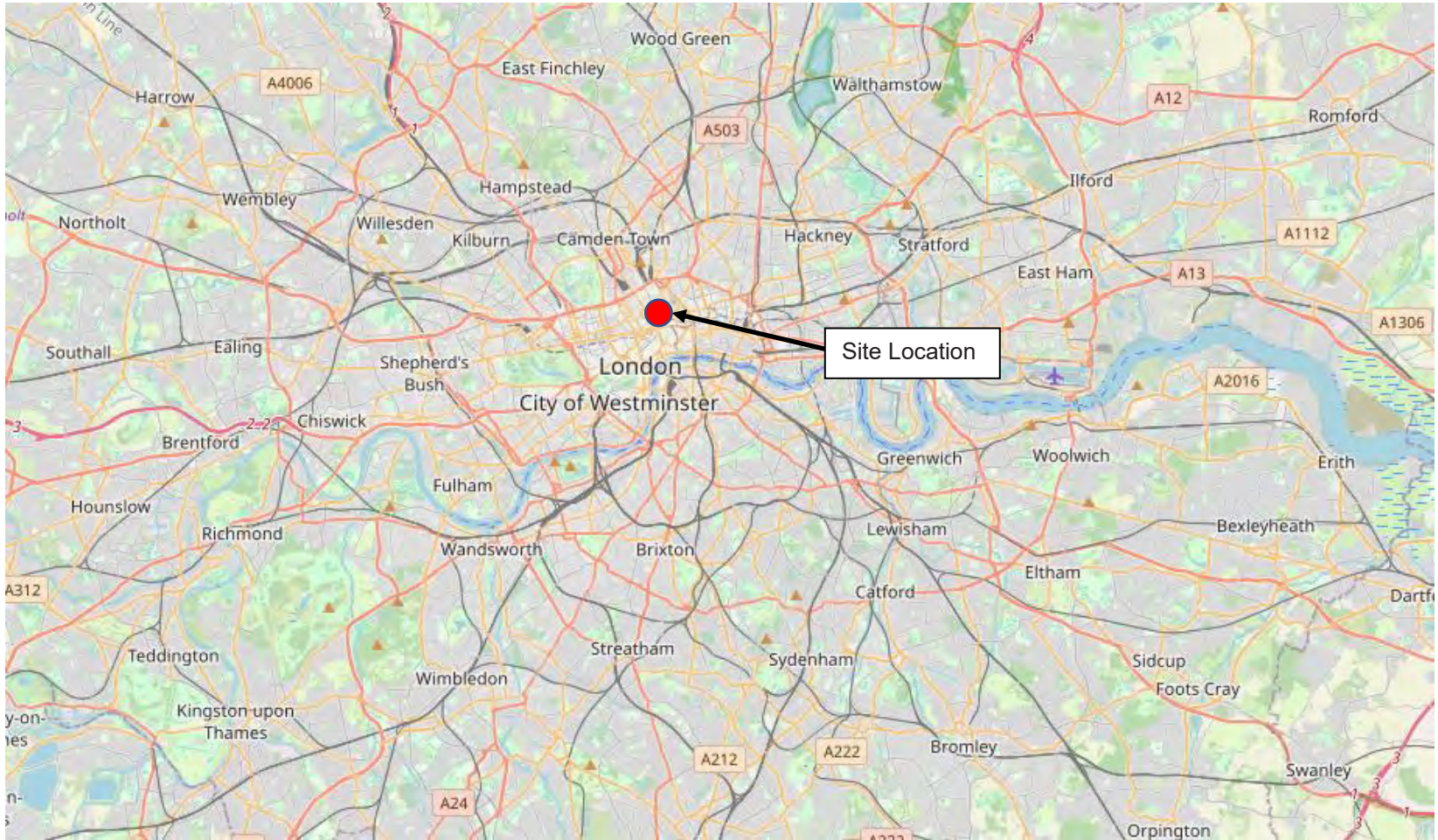
UK Maps of Radon available at: <https://www.ukradon.org/information/ukmaps> (accessed on 17<sup>th</sup> May 2024)

Zetica UXO Risk Map available at: <https://zeticauxo.com/downloads-and-resources/risk-maps/> (accessed 17<sup>th</sup> May 2024).



**Drawing 1** Site Location Plan

**Drawing 2** Site Boundary Plan



**Drawing 1:** Site Location Plan


RPS | Consulting UK & Ireland  
20 Farringdon Street  
London  
EC4A 4BL  
United Kingdom

[rpsgroup.com](http://rpsgroup.com)

<b>Client:</b>	The Governing Body of Rugby School
<b>Project:</b>	Rugby Chambers, London
<b>Checked By:</b>	JL
<b>Job Ref:</b>	794-PLN-LSE-00270

<b>Date:</b>	16 <sup>th</sup> May 2024
--------------	---------------------------



 Site Boundary

**Drawing 2:** Site Boundary Plan

RPS | Consulting UK & Ireland  
20 Farringdon Street

London

EC4A 4BL

United Kingdom

[rpsgroup.com](http://rpsgroup.com)

**Client:**

The Governing Body of Rugby School

**Project:**

Rugby Chambers, London

**Checked By:**

JL

**Job Ref:**

794-PLN-LSE-00270

**Date:**

16<sup>th</sup> May 2024

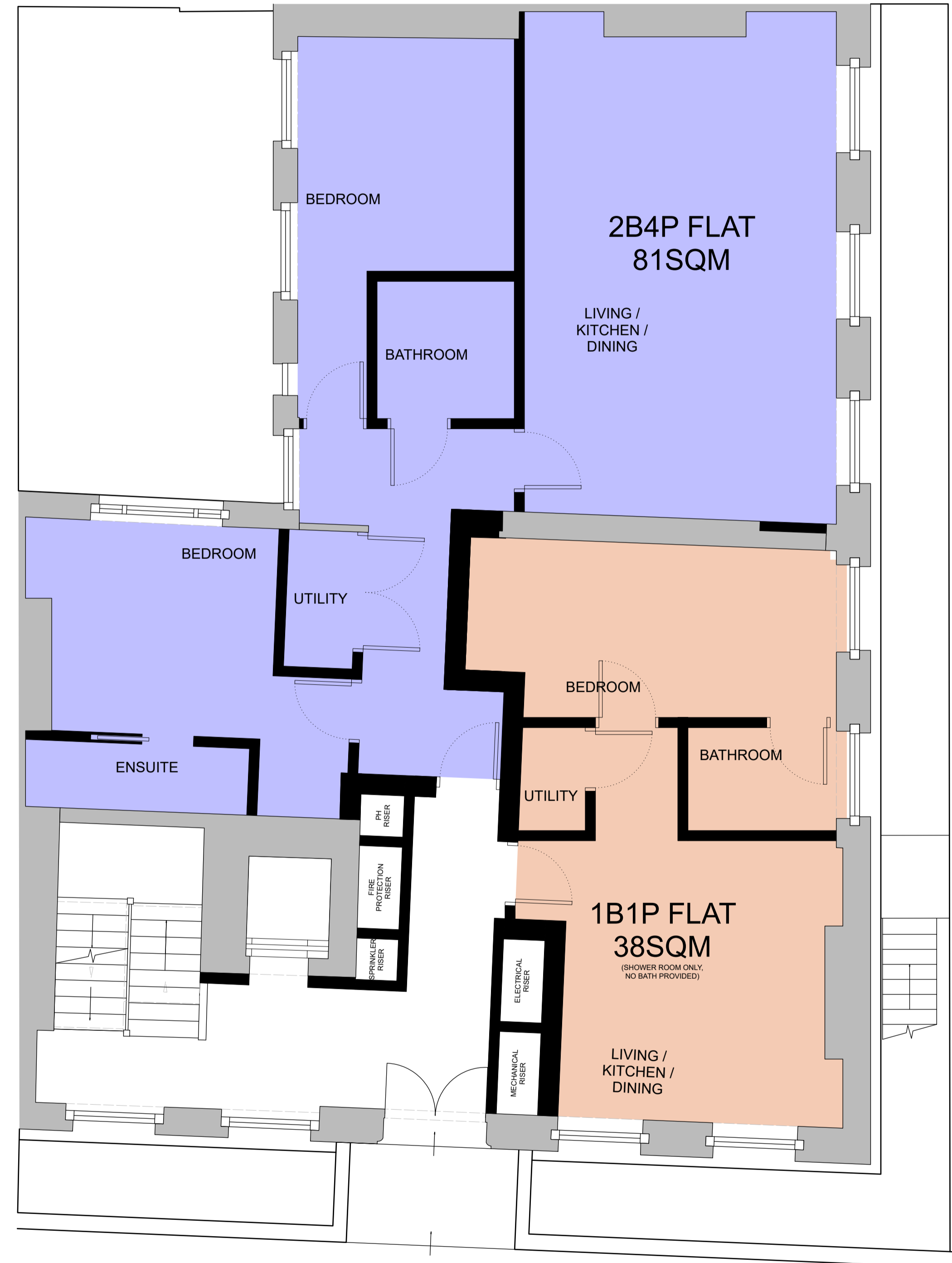
---

# Appendix A





## PROPOSED DEVELOPMENT PLANS







**KEY**

	Existing wall
	Proposed wall
	1B1P Flat
	2B4P Flat

PD4	05/04/2024	Updated 1 Bedroom Flat Plan
C	21/09/2023	For information
B	18/09/2023	For information
A	12/09/2023	For information

revision	date	check	description
----------	------	-------	-------------

## THREEFOLD Architects

Studio 9, The Dove Centre, London NW5 2BJ +44(0)20 8969 2323

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project title  
**RUGBY CHAMBERS**

drawing title/location  
**Residential-Proposed Ground Floor Plan**

prepared on behalf of  
**THE RUGBY TRUST**

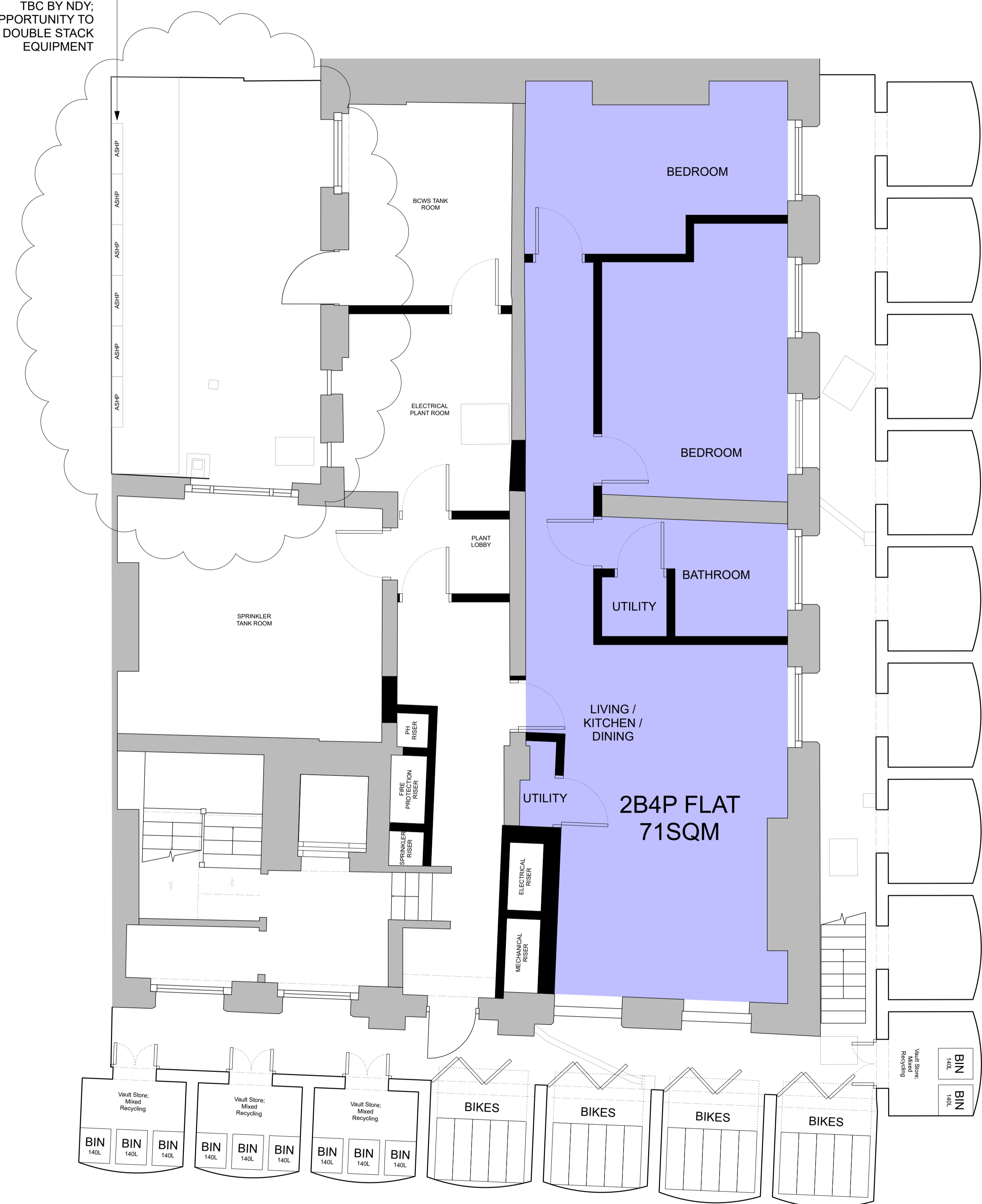
stage  
**Stage 01**

date  
**21/09/2023**

scale	size	status	revision
1:50	A1	For Information: Preliminary	P04

project no	orig	funct	spatial	form	disc	number
23107	TFA	XX	00	DR	A	2001

EXTERNAL PLANT UNDER REVIEW & TBC BY NDY; OPPORTUNITY TO DOUBLE STACK EQUIPMENT



**KEY**

	Existing wall
	Proposed wall
	1B1P Flat
	2B4P Flat

PD4	05/04/2024	For Information
C	21/09/2023	For Information
B	18/09/2023	For Information
A	12/09/2023	For Information

revision	date	check	description
----------	------	-------	-------------

## THREEFOLD Architects

Studio 9, The Dove Centre, London NW5 2BJ +44(0)20 8969 2323

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project title  
**RUGBY CHAMBERS**

drawing title/location  
**Residential-Proposed Lower Ground Floor Plan**

prepared on behalf of  
**THE RUGBY TRUST**

stage  
**Stage 01**

date  
**21/09/2023**

scale	size	status	revision
1:50	A1	For Information: Preliminary	P04

project no	orig	funct	spatial	form	disc	number
23107	TFA	XX	00	DR	A	2000

---



**Appendix B**  
**GENERAL NOTES**

## RPS Consulting Services Ltd

### *Phase 1 - Environmental Risk Assessment / Desk Study Environmental Review*

#### General Notes

1. A "desk study" means that no site visits have been carried out as any part thereof, unless otherwise specified.
2. This report provides available factual data for the site obtained only from the sources described in the text and related to the site on the basis of the location information provided by the Client.
3. The desk study information is not necessarily exhaustive and further information relevant to the site may be available from other sources.
4. The accuracy of maps cannot be guaranteed and it should be recognised that different conditions on site may have existed between and subsequent to the various map surveys.
5. No sampling or analysis has been undertaken in relation to this desk study.
6. Any borehole data from British Geological Survey sources is included on the basis that: "The British Geological Survey accept no responsibility for omissions or misinterpretation of the data from their Data Bank as this may be old or obtained from non-BGS sources and may not represent current interpretation".
7. Where any data supplied by the Client or from other sources, including that from previous site investigations, have been used it has been assumed that the information is correct. No responsibility can be accepted by RPS for inaccuracies in the data supplied by any other party.
8. This report is prepared and written in the context of an agreed scope of work and should not be used in a different context. Furthermore, new information, improved practices and changes in legislation may necessitate a re-interpretation of the report in whole or in part after its original submission.
9. The copyright in the written materials shall remain the property of the RPS Company but with a royalty-free perpetual licence to the Client deemed to be granted on payment in full to the RPS Company by the Client of the outstanding amounts.
10. The report is provided for sole use by the Client and is confidential to them, their professional advisors, no responsibility whatsoever for the contents of the report will be accepted to any person other than the Client. [Unless otherwise agreed]
11. These terms apply in addition to the RPS "Standard Terms & Conditions" (or in addition to another written contract which may be in place instead thereof) unless specifically agreed in writing. (In the event of a conflict between these terms and the said Standard Terms & Conditions the said Standard Terms & Conditions shall prevail.) In the absence of such a written contract the Standard Terms & Conditions will apply.

## RPS Consulting Services Ltd

### *Phase 2 – Site Investigations*

#### General Notes

1. The assessments made in this report are based on the ground conditions as revealed by intrusive investigations, together with the results of any field or laboratory testing or chemical analysis undertaken and other relevant data which may have been obtained including previous site investigations. In any event, ground contamination often exists as small discrete areas of contamination ("hot spots") and there can be no certainty that any or all such areas have been located and/or sampled.
2. There may be special conditions appertaining to the site which have not been taken into account in the report. The assessment may be subject to amendment in the light of additional information becoming available.
3. Where any data supplied by the Client or from other sources, including that from previous site investigations, have been used it has been assumed that the information is correct. No responsibility can be accepted by RPS Companies for inaccuracies within the data supplied by other parties.
4. Whilst the report may express an opinion on possible ground conditions between or beyond trial pit or borehole locations, or on the possible presence of features based on either visual, verbal or published evidence this is for guidance only and no liability can be accepted for the accuracy thereof.
5. Comments on groundwater conditions are based on observations made at the time of the investigation unless otherwise stated. Groundwater conditions may vary due to seasonal or other effects.
6. This report is prepared and written in the context of the agreed scope of work and should not be used in a different context. Furthermore, new information, improved practices and changes in legislation may necessitate a re-interpretation of the report in whole or part after its original submission.
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**Appendix C**  
**SITE WALKOVER PHOTOLOG**



Photo 01: Southern side of the building and main entrance.



Photo 02: General waste and recycling is placed outside main entrance for collection.



Photo 03: Eastern side of the building.



Photo 04: Ground floor hallway.





Photo 05: Lift maintenance room and boiler room on lower ground floor.



Photo 06: Boiler room on lower ground floor.



Photo 07: Lower ground floor outdoor courtyard.



Photo 08: Lower ground floor outdoor courtyard.



Photo 09: External lower ground floor area on southern side of building.

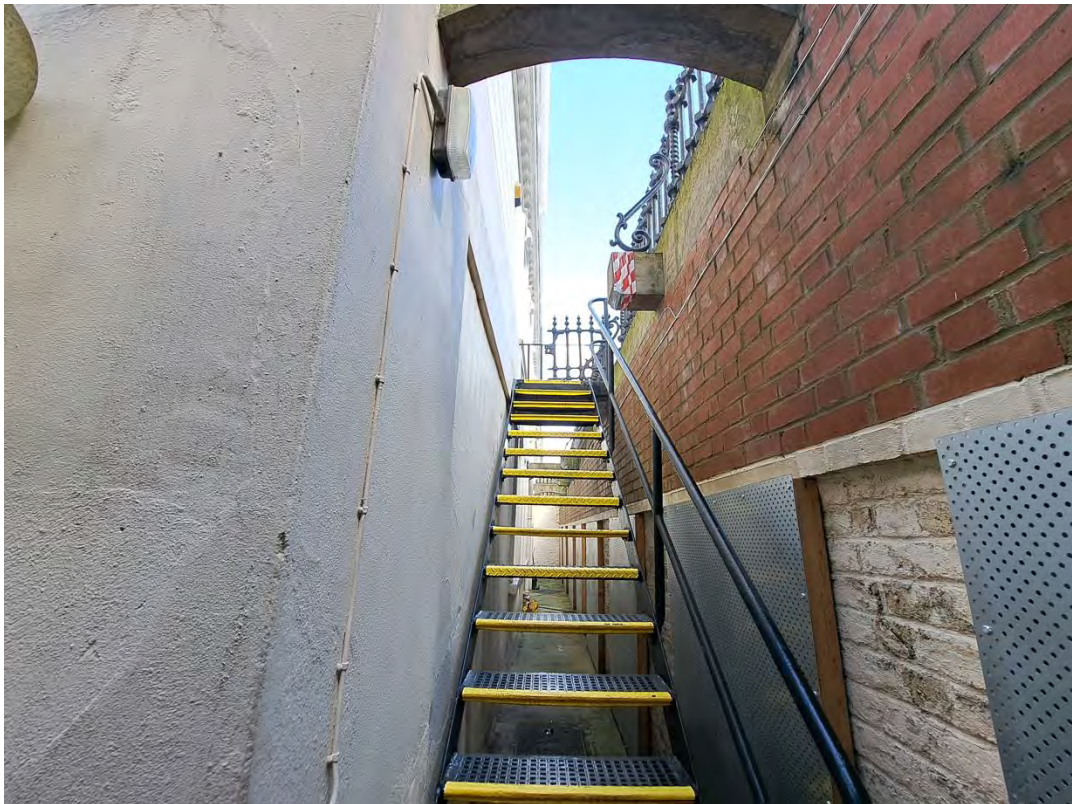


Photo 10: External staircase from ground level to lower ground level on the eastern side of building.

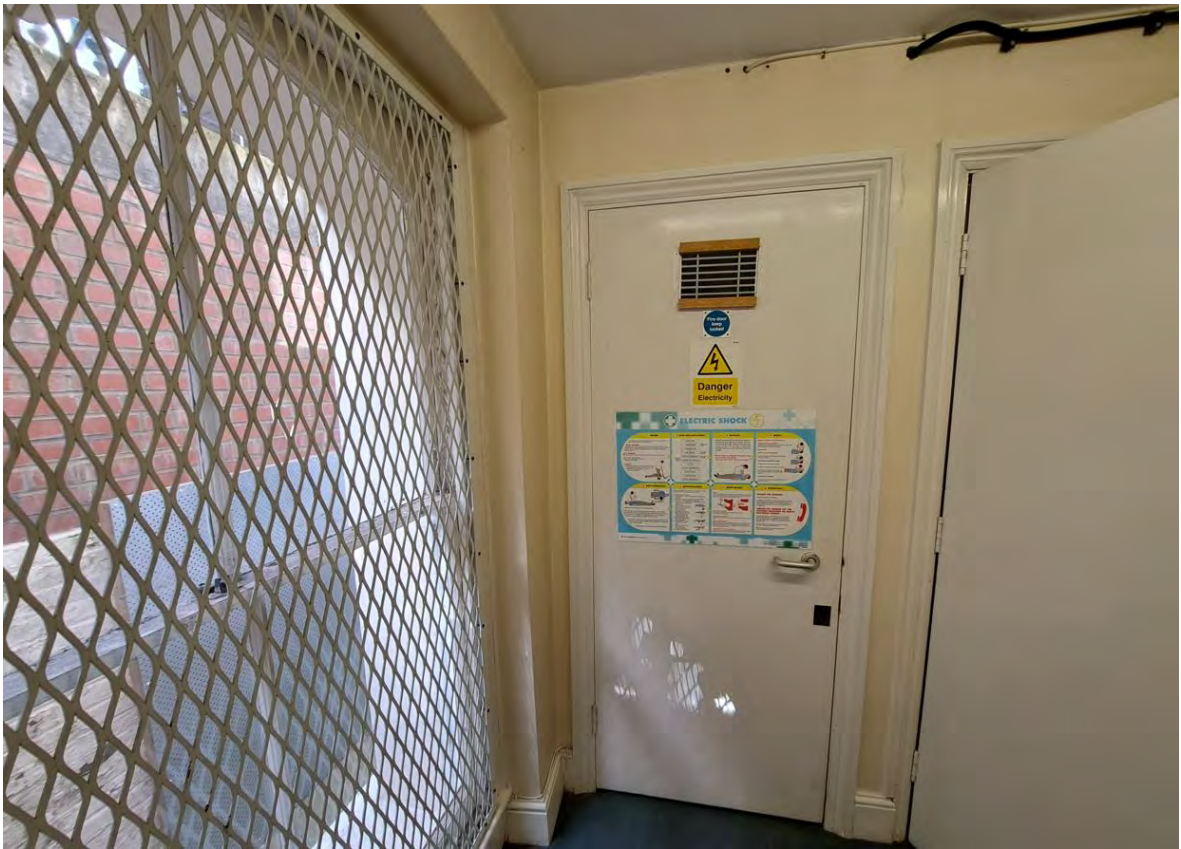


Photo 11: Electricity meter room on lower ground floor.



Photo 12: Vacant office space on the fourth floor.

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**Appendix D**  
**GROUNDSURE REPORT AND HISTORICAL MAPPING**



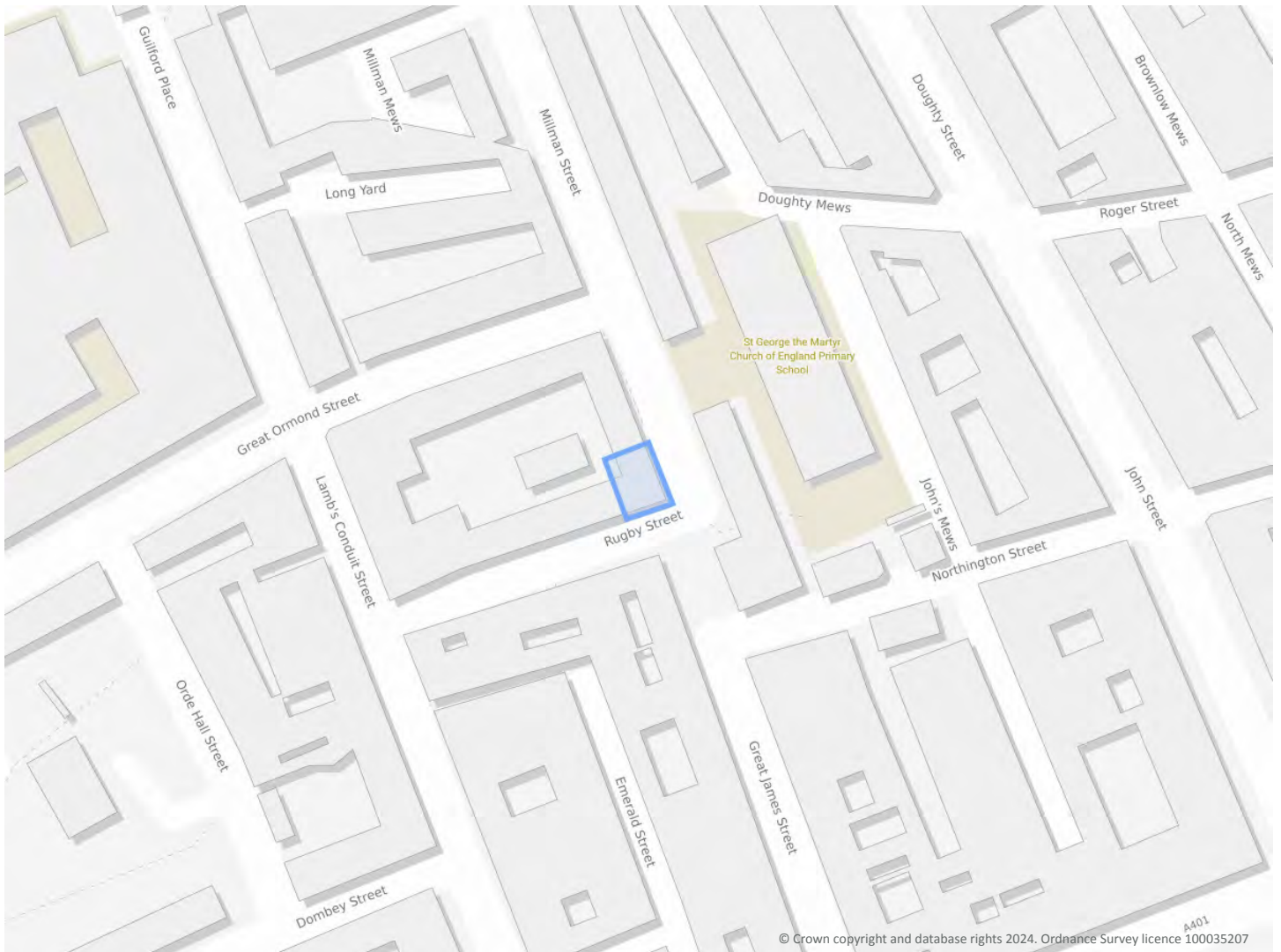
RUGBY CHAMBERS, 2, RUGBY STREET, LONDON, CAMDEN, WC1N 3QU

## Order Details

**Date:** 15/05/2024  
**Your ref:** PO24-0336  
**Our Ref:** GS-P6L-WGK-KQM-LIH

## Site Details

**Location:** 530707 182043  
**Area:** 0.02 ha  
**Authority:** [London Borough of Camden](#) ↗



[Summary of findings](#)

[p. 2 >](#)

[Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.14 >](#)

[Insight User Guide](#) ↗

Contact us with any questions at:

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

01273 257 755

## Summary of findings

Page	Section	<a href="#">Past land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">15 &gt;</a>	<a href="#">1.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	0	0	17	24	-
<a href="#">17 &gt;</a>	<a href="#">1.2 &gt;</a>	<a href="#">Historical tanks &gt;</a>	0	0	1	12	-
<a href="#">18 &gt;</a>	<a href="#">1.3 &gt;</a>	<a href="#">Historical energy features &gt;</a>	0	0	0	15	-
19	1.4	Historical petrol stations	0	0	0	0	-
<a href="#">19 &gt;</a>	<a href="#">1.5 &gt;</a>	<a href="#">Historical garages &gt;</a>	0	0	3	7	-
<a href="#">20 &gt;</a>	<a href="#">1.6 &gt;</a>	<a href="#">Historical military land &gt;</a>	0	0	0	1	-
Page	Section	<a href="#">Past land use - un-grouped &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">21 &gt;</a>	<a href="#">2.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	0	0	23	40	-
<a href="#">24 &gt;</a>	<a href="#">2.2 &gt;</a>	<a href="#">Historical tanks &gt;</a>	0	0	1	13	-
<a href="#">25 &gt;</a>	<a href="#">2.3 &gt;</a>	<a href="#">Historical energy features &gt;</a>	0	0	0	37	-
26	2.4	Historical petrol stations	0	0	0	0	-
<a href="#">26 &gt;</a>	<a href="#">2.5 &gt;</a>	<a href="#">Historical garages &gt;</a>	0	0	6	11	-
Page	Section	<a href="#">Waste and landfill &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
28	3.1	Active or recent landfill	0	0	0	0	-
28	3.2	Historical landfill (BGS records)	0	0	0	0	-
29	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
29	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
29	3.5	Historical waste sites	0	0	0	0	-
29	3.6	Licensed waste sites	0	0	0	0	-
<a href="#">29 &gt;</a>	<a href="#">3.7 &gt;</a>	<a href="#">Waste exemptions &gt;</a>	0	0	17	27	-
Page	Section	<a href="#">Current industrial land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">34 &gt;</a>	<a href="#">4.1 &gt;</a>	<a href="#">Recent industrial land uses &gt;</a>	0	4	25	-	-
37	4.2	Current or recent petrol stations	0	0	0	0	-
37	4.3	Electricity cables	0	0	0	0	-
37	4.4	Gas pipelines	0	0	0	0	-
37	4.5	Sites determined as Contaminated Land	0	0	0	0	-



37	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
38	4.7	Regulated explosive sites	0	0	0	0	-
38	4.8	Hazardous substance storage/usage	0	0	0	0	-
38	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
38	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
<b>38 &gt;</b>	<b>4.11 &gt;</b>	<b><u>Licensed pollutant release (Part A(2)/B) &gt;</u></b>	0	0	6	5	-
<b>40 &gt;</b>	<b>4.12 &gt;</b>	<b><u>Radioactive Substance Authorisations &gt;</u></b>	0	0	15	23	-
45	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
45	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
45	4.15	Pollutant release to public sewer	0	0	0	0	-
<b>46 &gt;</b>	<b>4.16 &gt;</b>	<b><u>List 1 Dangerous Substances &gt;</u></b>	0	0	0	1	-
46	4.17	List 2 Dangerous Substances	0	0	0	0	-
<b>46 &gt;</b>	<b>4.18 &gt;</b>	<b><u>Pollution Incidents (EA/NRW) &gt;</u></b>	0	0	0	1	-
47	4.19	Pollution inventory substances	0	0	0	0	-
47	4.20	Pollution inventory waste transfers	0	0	0	0	-
<b>47 &gt;</b>	<b>4.21 &gt;</b>	<b><u>Pollution inventory radioactive waste &gt;</u></b>	0	0	1	0	-
Page	Section	<b><u>Hydrogeology &gt;</u></b>	On site	0-50m	50-250m	250-500m	500-2000m
<b>49 &gt;</b>	<b>5.1 &gt;</b>	<b><u>Superficial aquifer &gt;</u></b>	Identified (within 500m)				
<b>50 &gt;</b>	<b>5.2 &gt;</b>	<b><u>Bedrock aquifer &gt;</u></b>	Identified (within 500m)				
<b>51 &gt;</b>	<b>5.3 &gt;</b>	<b><u>Groundwater vulnerability &gt;</u></b>	Identified (within 50m)				
52	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
52	5.5	Groundwater vulnerability- local information	None (within 0m)				
<b>53 &gt;</b>	<b>5.6 &gt;</b>	<b><u>Groundwater abstractions &gt;</u></b>	0	0	0	0	113
<b>80 &gt;</b>	<b>5.7 &gt;</b>	<b><u>Surface water abstractions &gt;</u></b>	0	0	0	0	4
<b>82 &gt;</b>	<b>5.8 &gt;</b>	<b><u>Potable abstractions &gt;</u></b>	0	0	0	0	37
91	5.9	Source Protection Zones	0	0	0	0	-
91	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<b><u>Hydrology &gt;</u></b>	On site	0-50m	50-250m	250-500m	500-2000m
92	6.1	Water Network (OS MasterMap)	0	0	0	-	-





92	6.2	Surface water features	0	0	0	-	-
<b>93 &gt;</b>	<b>6.3 &gt;</b>	<b><u>WFD Surface water body catchments &gt;</u></b>	1	-	-	-	-
93	6.4	WFD Surface water bodies	0	0	0	-	-
93	6.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
94	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
94	7.2	Historical Flood Events	0	0	0	-	-
94	7.3	Flood Defences	0	0	0	-	-
95	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
95	7.5	Flood Storage Areas	0	0	0	-	-
96	7.6	Flood Zone 2	None (within 50m)				
96	7.7	Flood Zone 3	None (within 50m)				
Page	Section	<u>Surface water flooding &gt;</u>					
<b>97 &gt;</b>	<b>8.1 &gt;</b>	<b><u>Surface water flooding &gt;</u></b>	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	<u>Groundwater flooding &gt;</u>					
<b>99 &gt;</b>	<b>9.1 &gt;</b>	<b><u>Groundwater flooding &gt;</u></b>	Moderate (within 50m)				
Page	Section	<u>Environmental designations &gt;</u>	On site	0-50m	50-250m	250-500m	500-2000m
100	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
101	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
101	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
101	10.4	Special Protection Areas (SPA)	0	0	0	0	0
101	10.5	National Nature Reserves (NNR)	0	0	0	0	0
<b>102 &gt;</b>	<b>10.6 &gt;</b>	<b><u>Local Nature Reserves (LNR) &gt;</u></b>	0	0	0	0	1
102	10.7	Designated Ancient Woodland	0	0	0	0	0
102	10.8	Biosphere Reserves	0	0	0	0	0
102	10.9	Forest Parks	0	0	0	0	0
103	10.10	Marine Conservation Zones	0	0	0	0	0
103	10.11	Green Belt	0	0	0	0	0
103	10.12	Proposed Ramsar sites	0	0	0	0	0



103	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
103	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
104	10.15	Nitrate Sensitive Areas	0	0	0	0	0
104	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
<a href="#">105</a> >	<a href="#">10.17</a> >	<a href="#">SSSI Impact Risk Zones</a> >	1	-	-	-	-
106	10.18	SSSI Units	0	0	0	0	0
Page	Section	<a href="#">Visual and cultural designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
107	11.1	World Heritage Sites	0	0	0	-	-
108	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
108	11.3	National Parks	0	0	0	-	-
<a href="#">108</a> >	<a href="#">11.4</a> >	<a href="#">Listed Buildings</a> >	0	11	59	-	-
<a href="#">111</a> >	<a href="#">11.5</a> >	<a href="#">Conservation Areas</a> >	1	0	1	-	-
112	11.6	Scheduled Ancient Monuments	0	0	0	-	-
<a href="#">112</a> >	<a href="#">11.7</a> >	<a href="#">Registered Parks and Gardens</a> >	0	0	2	-	-
Page	Section	<a href="#">Agricultural designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">113</a> >	<a href="#">12.1</a> >	<a href="#">Agricultural Land Classification</a> >	Urban (within 250m)				
114	12.2	Open Access Land	0	0	0	-	-
114	12.3	Tree Felling Licences	0	0	0	-	-
114	12.4	Environmental Stewardship Schemes	0	0	0	-	-
114	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	<a href="#">Habitat designations</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">115</a> >	<a href="#">13.1</a> >	<a href="#">Priority Habitat Inventory</a> >	0	0	4	-	-
116	13.2	Habitat Networks	0	0	0	-	-
116	13.3	Open Mosaic Habitat	0	0	0	-	-
116	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	<a href="#">Geology 1:10,000 scale</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">117</a> >	<a href="#">14.1</a> >	<a href="#">10k Availability</a> >	Identified (within 500m)				
<a href="#">118</a> >	<a href="#">14.2</a> >	<a href="#">Artificial and made ground (10k)</a> >	0	0	0	1	-
<a href="#">119</a> >	<a href="#">14.3</a> >	<a href="#">Superficial geology (10k)</a> >	1	1	0	1	-

120	14.4	Landslip (10k)	0	0	0	0	-
<a href="#">121</a> >	<a href="#">14.5</a> >	<a href="#">Bedrock geology (10k)</a> >	1	0	0	1	-
<a href="#">122</a> >	<a href="#">14.6</a> >	<a href="#">Bedrock faults and other linear features (10k)</a> >	0	0	1	1	-
Page	Section	<a href="#">Geology 1:50,000 scale</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">123</a> >	<a href="#">15.1</a> >	<a href="#">50k Availability</a> >	Identified (within 500m)				
<a href="#">124</a> >	<a href="#">15.2</a> >	<a href="#">Artificial and made ground (50k)</a> >	0	0	0	1	-
125	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<a href="#">126</a> >	<a href="#">15.4</a> >	<a href="#">Superficial geology (50k)</a> >	1	0	1	1	-
<a href="#">127</a> >	<a href="#">15.5</a> >	<a href="#">Superficial permeability (50k)</a> >	Identified (within 50m)				
127	15.6	Landslip (50k)	0	0	0	0	-
127	15.7	Landslip permeability (50k)	None (within 50m)				
<a href="#">128</a> >	<a href="#">15.8</a> >	<a href="#">Bedrock geology (50k)</a> >	1	0	0	1	-
<a href="#">129</a> >	<a href="#">15.9</a> >	<a href="#">Bedrock permeability (50k)</a> >	Identified (within 50m)				
129	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	<a href="#">Boreholes</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">130</a> >	<a href="#">16.1</a> >	<a href="#">BGS Boreholes</a> >	0	1	14	-	-
Page	Section	<a href="#">Natural ground subsidence</a> >					
<a href="#">132</a> >	<a href="#">17.1</a> >	<a href="#">Shrink swell clays</a> >	Moderate (within 50m)				
<a href="#">133</a> >	<a href="#">17.2</a> >	<a href="#">Running sands</a> >	Very low (within 50m)				
<a href="#">134</a> >	<a href="#">17.3</a> >	<a href="#">Compressible deposits</a> >	Negligible (within 50m)				
<a href="#">135</a> >	<a href="#">17.4</a> >	<a href="#">Collapsible deposits</a> >	Very low (within 50m)				
<a href="#">136</a> >	<a href="#">17.5</a> >	<a href="#">Landslides</a> >	Very low (within 50m)				
<a href="#">137</a> >	<a href="#">17.6</a> >	<a href="#">Ground dissolution of soluble rocks</a> >	Negligible (within 50m)				
Page	Section	<a href="#">Mining and ground workings</a> >	On site	0-50m	50-250m	250-500m	500-2000m
139	18.1	BritPits	0	0	0	0	-
<a href="#">140</a> >	<a href="#">18.2</a> >	<a href="#">Surface ground workings</a> >	0	0	1	-	-
<a href="#">140</a> >	<a href="#">18.3</a> >	<a href="#">Underground workings</a> >	0	0	0	0	18
141	18.4	Underground mining extents	0	0	0	0	-
141	18.5	Historical Mineral Planning Areas	0	0	0	0	-

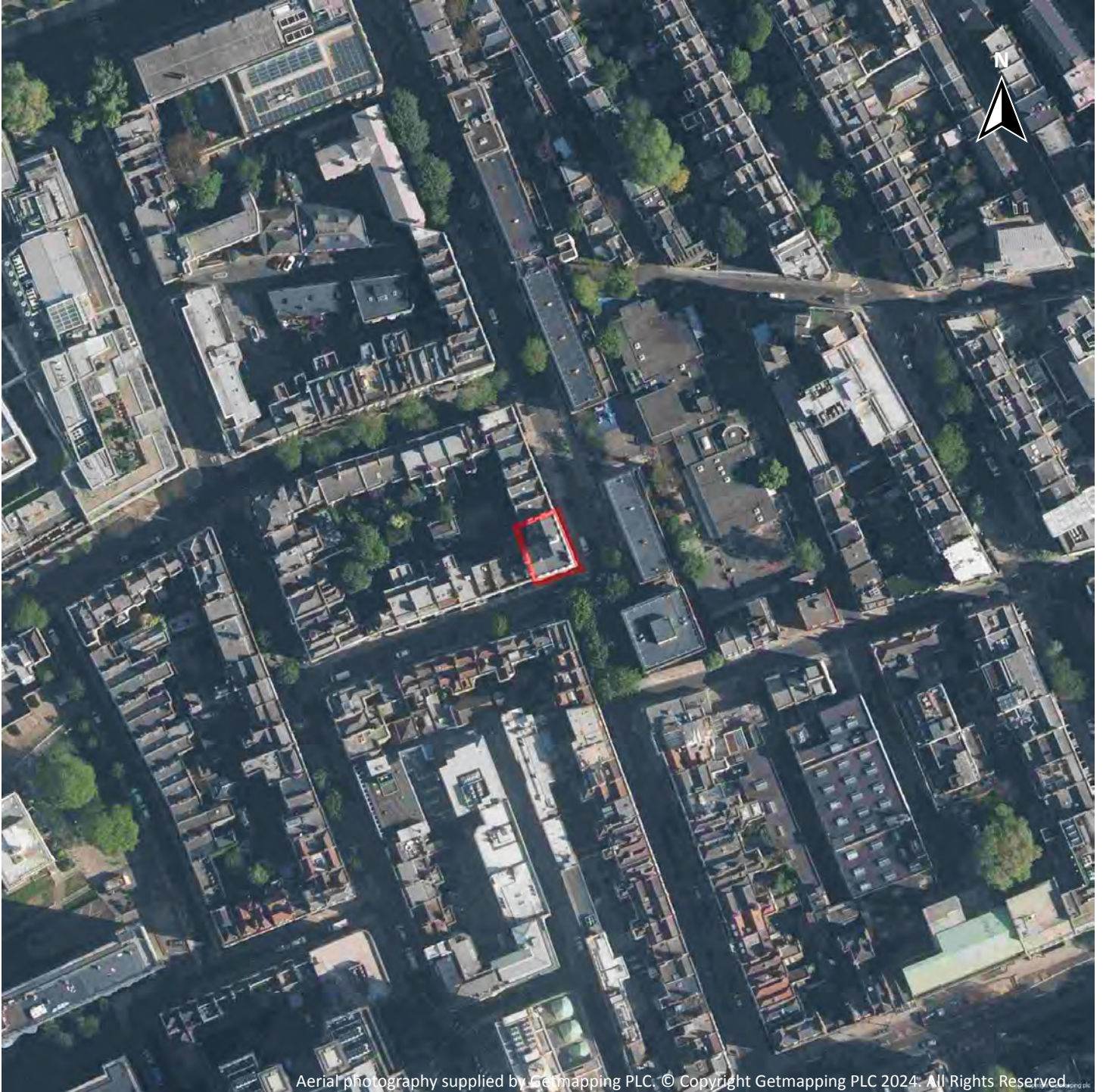


141	18.6	Non-coal mining	0	0	0	0	0
142	18.7	JPB mining areas	None (within 0m)				
142	18.8	The Coal Authority non-coal mining	0	0	0	0	-
<a href="#">142</a> >	<a href="#">18.9</a> >	<a href="#">Researched mining</a> >	0	0	0	3	-
142	18.10	Mining record office plans	0	0	0	0	-
143	18.11	BGS mine plans	0	0	0	0	-
143	18.12	Coal mining	None (within 0m)				
143	18.13	Brine areas	None (within 0m)				
143	18.14	Gypsum areas	None (within 0m)				
143	18.15	Tin mining	None (within 0m)				
144	18.16	Clay mining	None (within 0m)				
Page	Section	<a href="#">Ground cavities and sinkholes</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">145</a> >	<a href="#">19.1</a> >	<a href="#">Natural cavities</a> >	0	0	1	2	-
146	19.2	Mining cavities	0	0	0	0	0
146	19.3	Reported recent incidents	0	0	0	0	-
147	19.4	Historical incidents	0	0	0	0	-
147	19.5	National karst database	0	0	0	0	-
Page	Section	<a href="#">Radon</a> >					
<a href="#">148</a> >	<a href="#">20.1</a> >	<a href="#">Radon</a> >	Less than 1% (within 0m)				
Page	Section	<a href="#">Soil chemistry</a> >	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">150</a> >	<a href="#">21.1</a> >	<a href="#">BGS Estimated Background Soil Chemistry</a> >	1	1	-	-	-
<a href="#">150</a> >	<a href="#">21.2</a> >	<a href="#">BGS Estimated Urban Soil Chemistry</a> >	2	4	-	-	-
151	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	<a href="#">Railway infrastructure and projects</a> >	On site	0-50m	50-250m	250-500m	500-2000m
152	22.1	Underground railways (London)	0	0	0	-	-
152	22.2	Underground railways (Non-London)	0	0	0	-	-
153	22.3	Railway tunnels	0	0	0	-	-
153	22.4	Historical railway and tunnel features	0	0	0	-	-
<a href="#">153</a> >	<a href="#">22.5</a> >	<a href="#">Royal Mail tunnels</a> >	0	1	0	-	-



<a href="#">153</a> >	<a href="#">22.6</a> >	<a href="#">Historical railways</a> >	0	1	0	-	-
154	22.7	Railways	0	0	0	-	-
<a href="#">154</a> >	<a href="#">22.8</a> >	<a href="#">Crossrail 1</a> >	0	0	0	3	-
154	22.9	Crossrail 2	0	0	0	0	-
155	22.10	HS2	0	0	0	0	-

## Recent aerial photograph



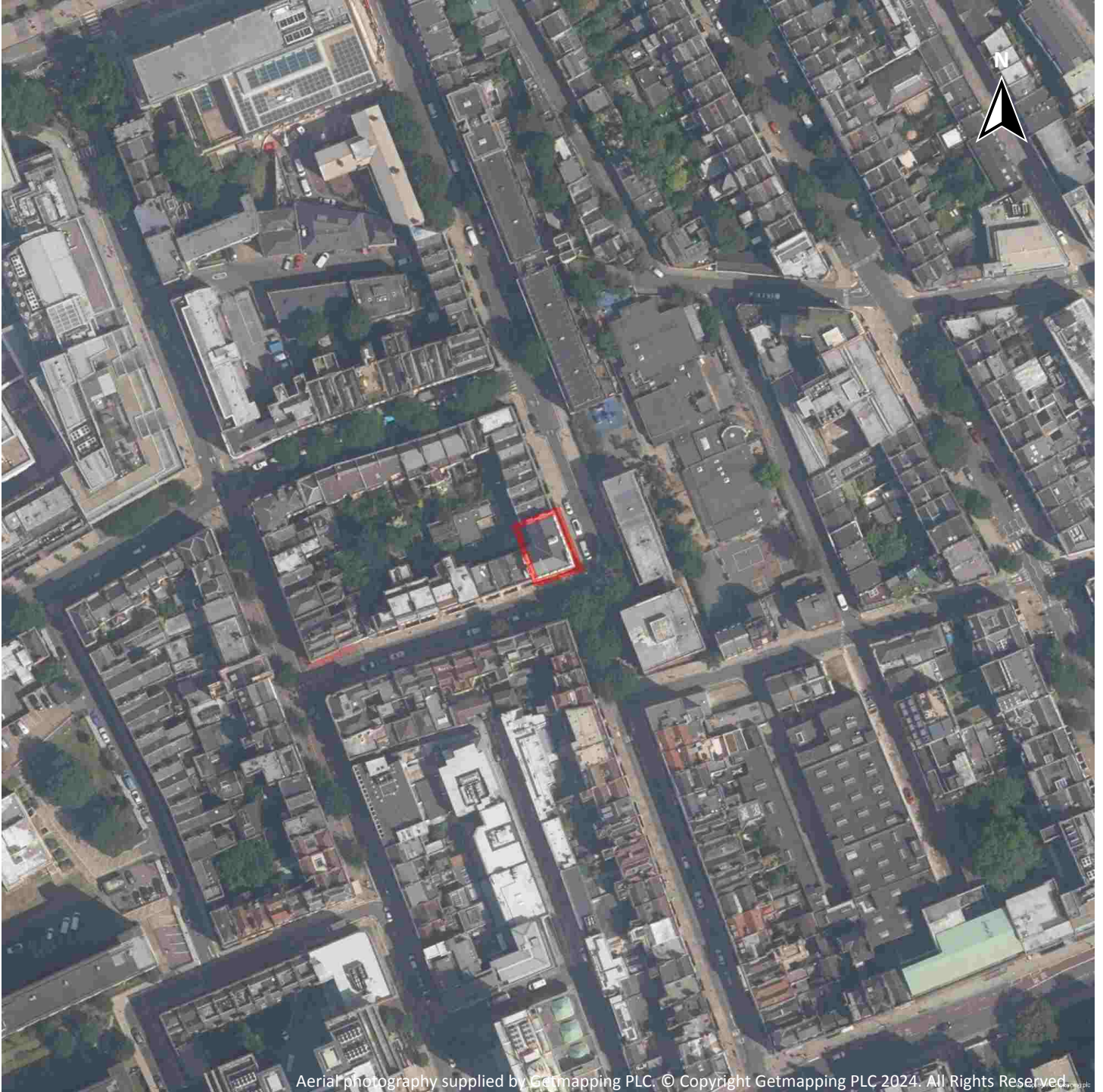
Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2024. All Rights Reserved.

Capture Date: 30/04/2022

Site Area: 0.02ha



## Recent site history - 2019 aerial photograph

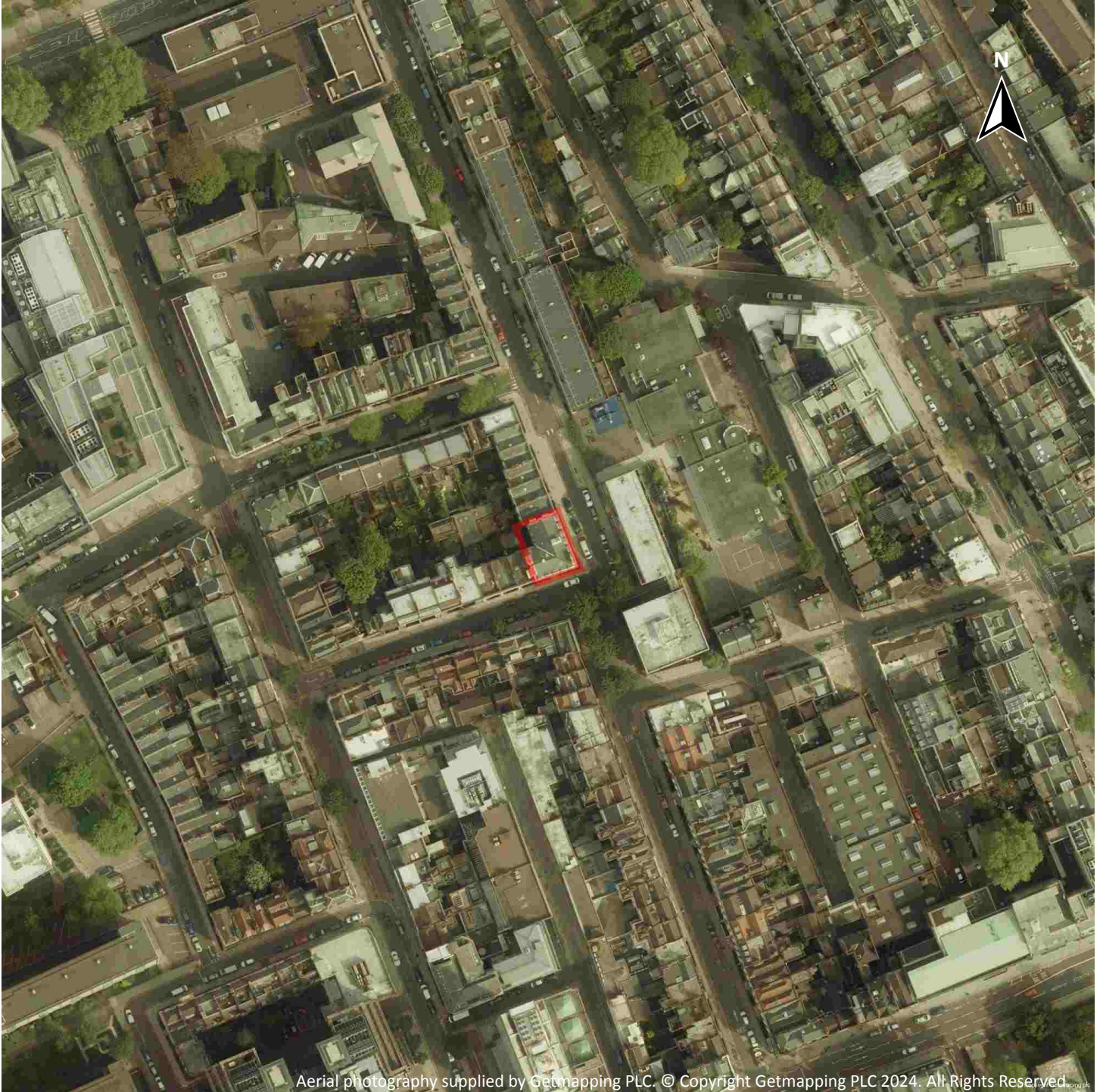


Capture Date: 29/06/2019

Site Area: 0.02ha



## Recent site history - 2014 aerial photograph



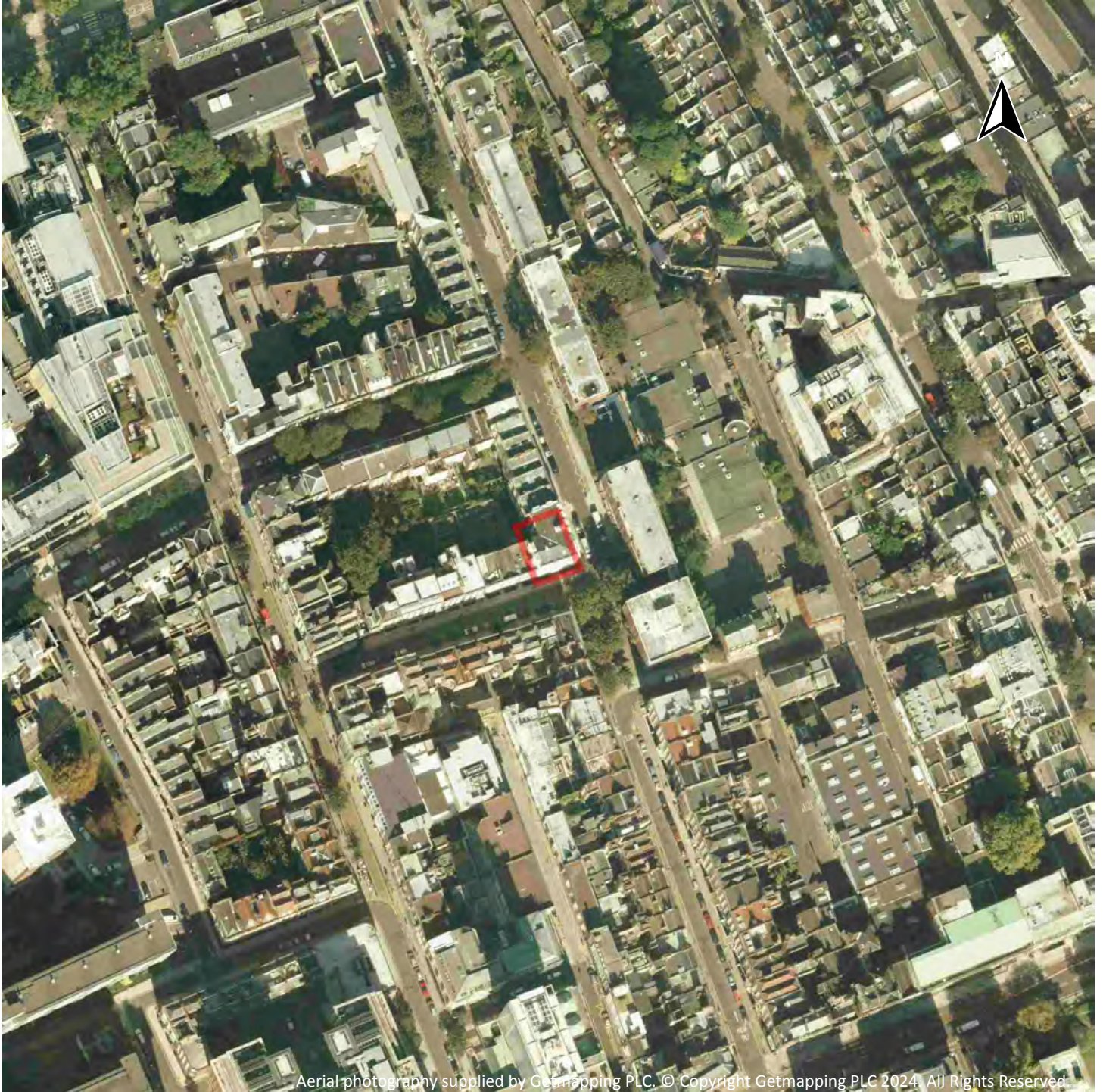
Capture Date: 04/05/2014

Site Area: 0.02ha





## Recent site history - 2011 aerial photograph

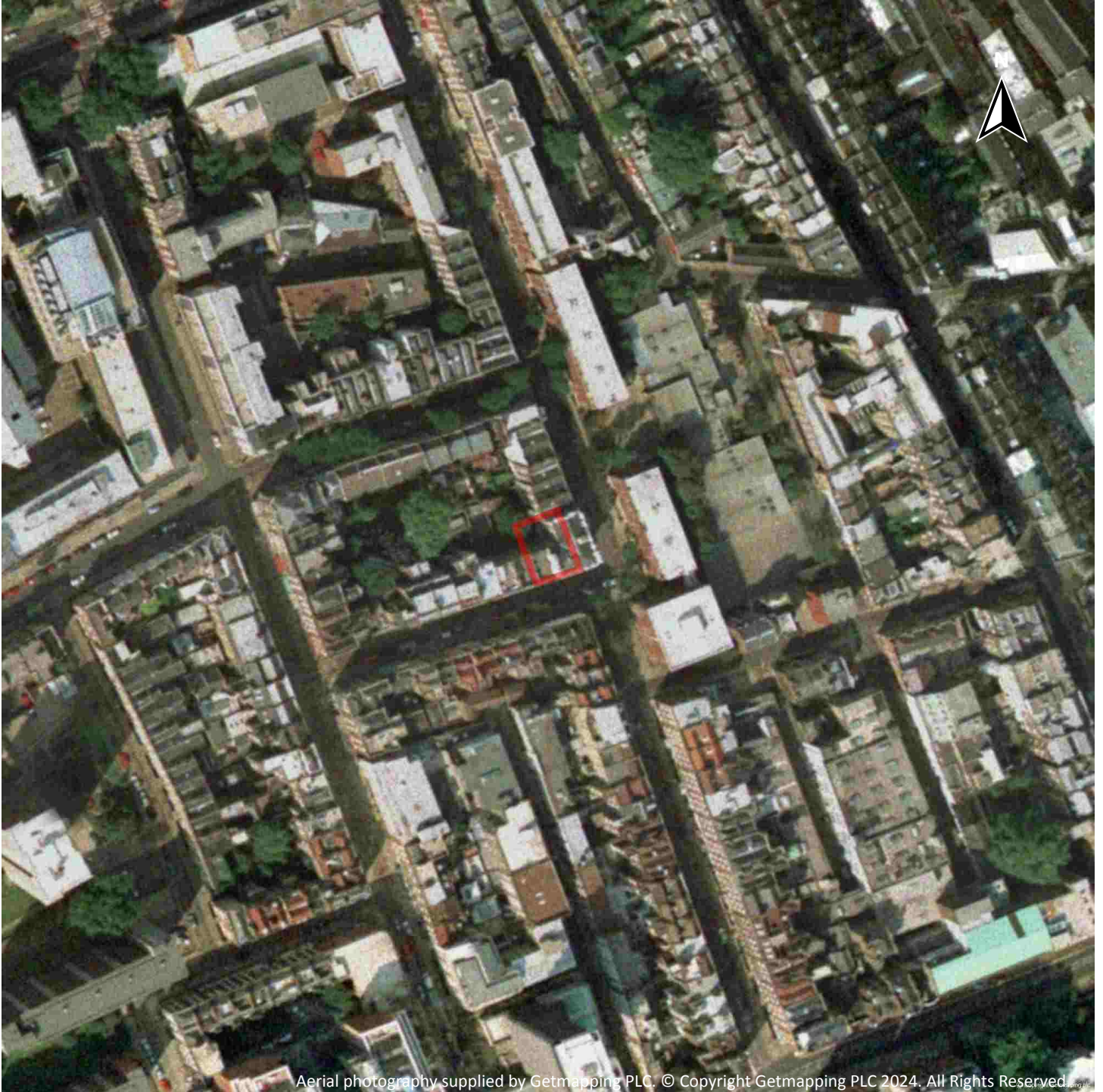


Capture Date: 30/09/2011

Site Area: 0.02ha



## Recent site history - 1999 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2024. All Rights Reserved.

Capture Date: 04/09/1999

Site Area: 0.02ha



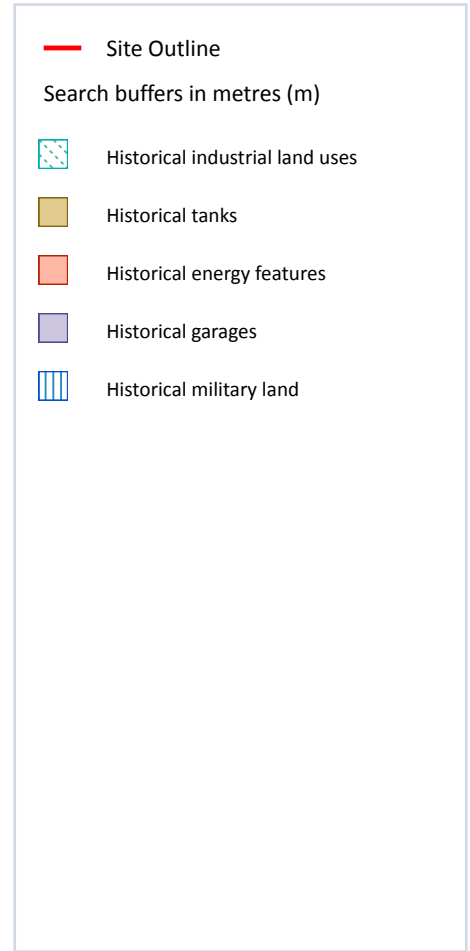
## OS MasterMap site plan



Site Area: 0.02ha



# 1 Past land use



## 1.1 Historical industrial land uses

**Records within 500m** **41**

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

Features are displayed on the Past land use map on [page 15](#) >

ID	Location	Land use	Dates present	Group ID
1	53m NW	Unspecified Yard	1920 - 1938	2205882



ID	Location	Land use	Dates present	Group ID
A	117m W	Hospital	1971 - 1994	2266023
3	127m S	Police Station	1971 - 1994	2250978
A	163m W	Hospital	1957 - 1966	2182358
B	182m NE	Hospital	1894	2205241
C	186m NW	Hospital	1911	2212758
A	188m W	Hospitals	1895	2274401
A	190m W	Hospitals	1898	2285630
C	190m NW	Hospital	1882	2176238
C	190m NW	Hospital	1894	2193510
A	192m W	Hospitals	1895	2260285
C	198m NW	Hospital	1920	2201036
C	198m NW	Hospital	1938	2255494
B	229m NE	Hospital	1911	2238177
D	234m E	Unspecified Workhouse	1895	2251238
6	238m SE	Unspecified Ground Workings	1898	2133645
D	242m E	Unspecified Workhouse	1898	2215099
E	254m E	Police Station	1971 - 1994	2181151
D	260m E	Unspecified Workhouse	1895	2178465
E	272m E	Police Station	1966	2213259
I	308m SW	Hospital	1966	2226344
I	308m SW	Hospital	1971 - 1994	2176877
J	365m N	Hospital	1882	2201574
J	366m N	Hospital	1994	2200663
J	366m N	Hospital	1976	2237985
J	372m N	Hospital	1957 - 1971	2243746
M	385m W	Hospitals	1898	2215479
M	397m W	Hospitals	1895	2238709
J	406m N	Hospital	1911 - 1948	2293117



ID	Location	Land use	Dates present	Group ID
J	412m N	Hospital	1894	2232054
J	432m N	Hospital	1948	2286974
J	434m N	Hospital	1920 - 1938	2288349
11	455m NW	Disused Cemetery	1948	2246294
12	456m NW	Disused Cemetery	1920 - 1938	2282040
P	463m W	London Transport Station	1971 - 1994	2198252
P	463m W	Unspecified Station	1966	2212214
P	466m W	Unspecified Station	1948	2226263
P	469m W	Unspecified Station	1920 - 1938	2169404
14	472m N	Unspecified Works	1971	2159832
R	478m SE	Unspecified Station	1920 - 1938	2275177
R	485m SE	Unspecified Station	1948	2188243

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

## 1.2 Historical tanks

**Records within 500m**

**13**

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
5	227m NW	Unspecified Tank	1995	365572
A	272m W	Unspecified Tank	1994	406362
A	273m W	Unspecified Tank	1982 - 1991	385639
D	297m E	Unspecified Tank	1878	365506
K	377m E	Unspecified Tank	1916	365512
8	383m NE	Unspecified Tank	1952	365508



ID	Location	Land use	Dates present	Group ID
N	396m NE	Unspecified Tank	1896	365507
K	418m E	Unspecified Tank	1916	365513
N	424m NE	Unspecified Tank	1896	365511
J	427m N	Unspecified Tank	1960	407202
J	427m N	Unspecified Tank	1951	411023
J	428m N	Unspecified Tank	1952	401073
N	430m NE	Unspecified Tank	1896	365510

This data is sourced from Ordnance Survey / Groundsure.

### 1.3 Historical energy features

<b>Records within 500m</b>	<b>15</b>
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
D	253m E	Electricity Substation	1951 - 1952	280057
F	281m NE	Electricity Substation	1974 - 1991	289765
F	282m NE	Electricity Substation	1982	285465
D	285m E	Electricity Substation	1954	284298
F	286m NE	Electricity Substation	1995	253025
F	287m E	Electricity Substation	1951 - 1952	285258
H	308m SW	Electricity Substation	1967	245283
H	315m SW	Electricity Substation	1951	245284
7	363m N	Electricity Substation	1951 - 1952	276313
K	373m E	Electricity Substation	1975 - 1994	288404
L	375m NW	Electricity Substation	1995	269838



ID	Location	Land use	Dates present	Group ID
L	376m NW	Electricity Substation	1974 - 1991	267175
O	427m S	Electricity Substation	1951 - 1991	284635
9	443m E	Electricity Substation	1975 - 1994	282096
O	445m S	Electricity Substation	1995	289909

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

## 1.4 Historical petrol stations

<b>Records within 500m</b>	<b>0</b>
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Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

## 1.5 Historical garages

<b>Records within 500m</b>	<b>10</b>
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
2	88m E	Garage	1960	73382
4	175m NE	Garage	1974 - 1991	84867
B	239m NE	Garage	1951	73385
G	301m NE	Garage	1951	73379
F	302m NE	Garage	1951 - 1954	83546
G	306m NE	Garage	1951	73380
10	454m NW	Garage	1951 - 1960	80787





ID	Location	Land use	Dates present	Group ID
13	460m W	Garage	1951	73381
Q	472m N	Garage	1982	74922
Q	473m N	Garage	1960 - 1973	81882

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

## 1.6 Historical military land

**Records within 500m**

**1**

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

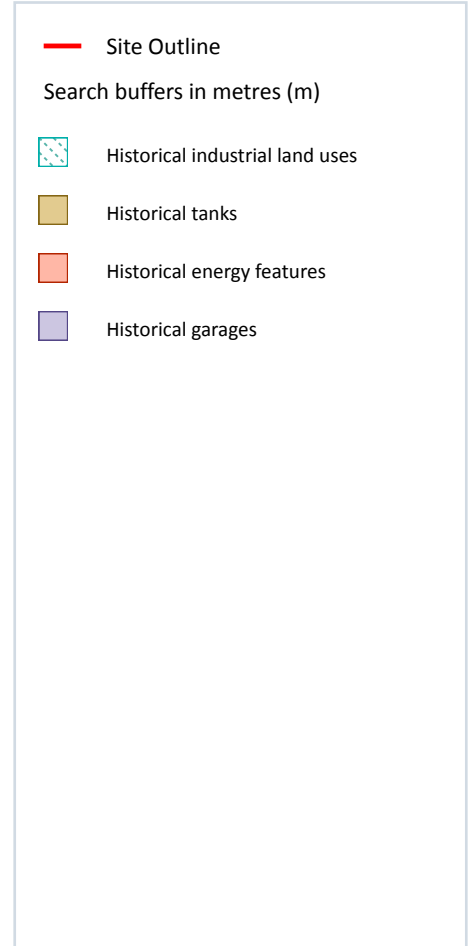
Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Site Name	Date of Operation	Activities
F	307m NE	Phoenix Factory	circa WWI	National Fuse Rectification Factory; Repairing and rectifying fuses

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



## 2 Past land use - un-grouped



### 2.1 Historical industrial land uses

Records within 500m

63

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

Features are displayed on the Past land use - un-grouped map on [page 21](#) >

ID	Location	Land Use	Date	Group ID
A	53m NW	Unspecified Yard	1938	2205882
A	53m NW	Unspecified Yard	1920	2205882
B	117m W	Hospital	1994	2266023



ID	Location	Land Use	Date	Group ID
B	117m W	Hospital	1976	2266023
B	117m W	Hospital	1971	2266023
C	127m S	Police Station	1994	2250978
C	127m S	Police Station	1976	2250978
C	127m S	Police Station	1971	2250978
B	163m W	Hospital	1966	2182358
E	182m NE	Hospital	1894	2205241
F	186m NW	Hospital	1911	2212758
B	188m W	Hospitals	1895	2274401
B	190m W	Hospitals	1898	2285630
F	190m NW	Hospital	1882	2176238
F	190m NW	Hospital	1894	2193510
B	192m W	Hospitals	1895	2260285
F	198m NW	Hospital	1938	2255494
F	198m NW	Hospital	1920	2201036
B	216m W	Hospital	1957	2182358
E	229m NE	Hospital	1911	2238177
G	234m E	Unspecified Workhouse	1895	2251238
3	238m SE	Unspecified Ground Workings	1898	2133645
G	242m E	Unspecified Workhouse	1898	2215099
H	254m E	Police Station	1994	2181151
H	254m E	Police Station	1976	2181151
H	254m E	Police Station	1971	2181151
G	260m E	Unspecified Workhouse	1895	2178465
H	272m E	Police Station	1966	2213259
L	308m SW	Hospital	1966	2226344
L	308m SW	Hospital	1994	2176877
L	308m SW	Hospital	1976	2176877



ID	Location	Land Use	Date	Group ID
L	308m SW	Hospital	1971	2176877
N	365m N	Hospital	1882	2201574
N	366m N	Hospital	1994	2200663
N	366m N	Hospital	1976	2237985
N	372m N	Hospital	1966	2243746
N	372m N	Hospital	1957	2243746
N	372m N	Hospital	1971	2243746
Q	385m W	Hospitals	1898	2215479
Q	397m W	Hospitals	1895	2238709
Q	402m W	Hospitals	1895	2238709
N	406m N	Hospital	1948	2293117
N	407m N	Hospital	1911	2293117
N	412m N	Hospital	1938	2293117
N	412m N	Hospital	1920	2293117
N	412m N	Hospital	1894	2232054
N	432m N	Hospital	1948	2286974
N	434m N	Hospital	1938	2288349
N	434m N	Hospital	1920	2288349
5	455m NW	Disused Cemetery	1948	2246294
V	456m NW	Disused Cemetery	1938	2282040
V	456m NW	Disused Cemetery	1920	2282040
W	463m W	Unspecified Station	1966	2212214
W	463m W	London Transport Station	1994	2198252
W	463m W	London Transport Station	1976	2198252
W	463m W	London Transport Station	1971	2198252
W	466m W	Unspecified Station	1948	2226263
W	469m W	Unspecified Station	1938	2169404
W	469m W	Unspecified Station	1920	2169404



ID	Location	Land Use	Date	Group ID
7	472m N	Unspecified Works	1971	2159832
Y	478m SE	Unspecified Station	1938	2275177
Y	478m SE	Unspecified Station	1920	2275177
Y	485m SE	Unspecified Station	1948	2188243

This data is sourced from Ordnance Survey / Groundsure.

## 2.2 Historical tanks

<b>Records within 500m</b>	<b>14</b>
----------------------------	-----------

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

Features are displayed on the Past land use - un-grouped map on [page 21 >](#)

ID	Location	Land Use	Date	Group ID
2	227m NW	Unspecified Tank	1995	365572
B	272m W	Unspecified Tank	1994	406362
B	273m W	Unspecified Tank	1982	385639
B	273m W	Unspecified Tank	1991	385639
G	297m E	Unspecified Tank	1878	365506
O	377m E	Unspecified Tank	1916	365512
4	383m NE	Unspecified Tank	1952	365508
R	396m NE	Unspecified Tank	1896	365507
O	418m E	Unspecified Tank	1916	365513
R	424m NE	Unspecified Tank	1896	365511
N	427m N	Unspecified Tank	1951	411023
N	427m N	Unspecified Tank	1960	407202
N	428m N	Unspecified Tank	1952	401073
R	430m NE	Unspecified Tank	1896	365510

This data is sourced from Ordnance Survey / Groundsure.



## 2.3 Historical energy features

Records within 500m

37

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

Features are displayed on the Past land use - un-grouped map on [page 21](#) >

ID	Location	Land Use	Date	Group ID
G	253m E	Electricity Substation	1951	280057
G	265m E	Electricity Substation	1952	280057
I	281m NE	Electricity Substation	1991	289765
I	282m NE	Electricity Substation	1982	289765
I	282m NE	Electricity Substation	1974	289765
I	282m NE	Electricity Substation	1982	285465
G	283m E	Electricity Substation	1952	280057
G	285m E	Electricity Substation	1954	284298
I	286m NE	Electricity Substation	1995	253025
I	287m E	Electricity Substation	1951	285258
I	287m E	Electricity Substation	1952	285258
K	308m SW	Electricity Substation	1967	245283
K	315m SW	Electricity Substation	1951	245284
M	363m N	Electricity Substation	1951	276313
M	363m N	Electricity Substation	1952	276313
O	373m E	Electricity Substation	1980	288404
O	373m E	Electricity Substation	1989	288404
O	373m E	Electricity Substation	1991	288404
O	373m E	Electricity Substation	1975	288404
O	373m E	Electricity Substation	1994	288404
O	373m E	Electricity Substation	1992	288404
P	375m NW	Electricity Substation	1995	269838
P	376m NW	Electricity Substation	1982	267175



ID	Location	Land Use	Date	Group ID
P	376m NW	Electricity Substation	1974	267175
P	377m NW	Electricity Substation	1982	267175
P	377m NW	Electricity Substation	1991	267175
S	427m S	Electricity Substation	1967	284635
S	427m S	Electricity Substation	1990	284635
S	427m S	Electricity Substation	1991	284635
S	428m S	Electricity Substation	1951	284635
T	443m E	Electricity Substation	1980	282096
T	443m E	Electricity Substation	1989	282096
T	443m E	Electricity Substation	1991	282096
T	443m E	Electricity Substation	1975	282096
T	444m E	Electricity Substation	1994	282096
T	444m E	Electricity Substation	1992	282096
S	445m S	Electricity Substation	1995	289909

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

## 2.4 Historical petrol stations

**Records within 500m**

**0**

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

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

## 2.5 Historical garages

**Records within 500m**

**17**

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

Features are displayed on the Past land use - un-grouped map on [page 21](#) >



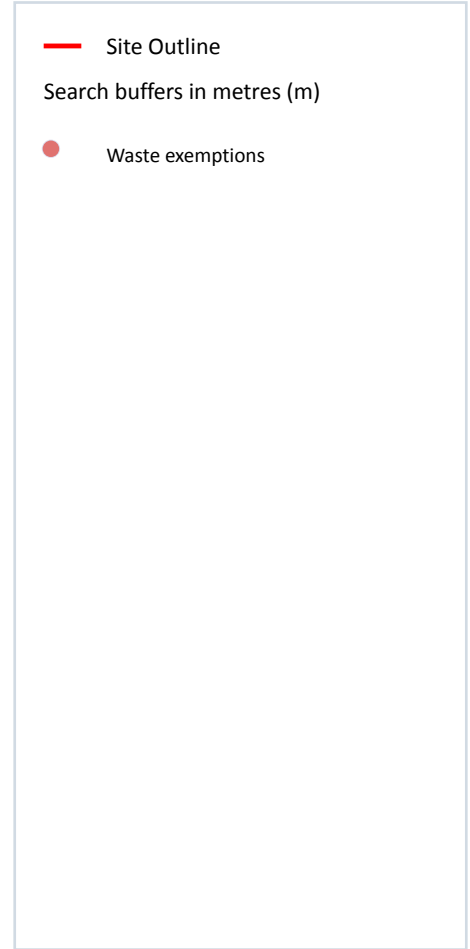
ID	Location	Land Use	Date	Group ID
1	88m E	Garage	1960	73382
D	175m NE	Garage	1982	84867
D	175m NE	Garage	1991	84867
D	175m NE	Garage	1982	84867
D	175m NE	Garage	1974	84867
E	239m NE	Garage	1951	73385
J	301m NE	Garage	1951	73379
I	302m NE	Garage	1951	83546
I	304m E	Garage	1954	83546
I	305m E	Garage	1952	83546
J	306m NE	Garage	1951	73380
U	454m NW	Garage	1951	80787
U	454m NW	Garage	1960	80787
6	460m W	Garage	1951	73381
X	472m N	Garage	1982	74922
X	473m N	Garage	1973	81882
X	474m N	Garage	1960	81882

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





## 3 Waste and landfill



### 3.1 Active or recent landfill

Records within 500m

0

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

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

### 3.2 Historical landfill (BGS records)

Records within 500m

0

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

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

### 3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

### 3.4 Historical landfill (EA/NRW records)

Records within 500m

0

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

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

### 3.5 Historical waste sites

Records within 500m

0

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

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

### 3.6 Licensed waste sites

Records within 500m

0

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

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

### 3.7 Waste exemptions

Records within 500m

44

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

Features are displayed on the Waste and landfill map on [page 28 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
1	66m W	60 Lambs Conduit Street London WC1N 3LW	EPR/TF0736CK /A001	Treating waste exemption	Non- Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal



ID	Location	Site	Reference	Category	Sub-Category	Description
A	108m NW	FONEBANK, 3 LONG YARD, LONDON, WC1N 3LS	EXP/VP3987BR	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE
A	108m NW	3 Long Yard, London, WC1N 3LS	EA/EPR/VP3987BR/A001	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE
B	110m SE	Cockpit Yard Off Northington Street WC1N 2NP	EPR/ZE5244KC/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
B	110m SE	Cockpit Yard Off Northington Street WC1N 2NP	EPR/ZE5244KC/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
A	114m NW	3 Long Yard, Holborn, London, WC1N 3LS	EA/EPR/VP3882KV/A001	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE
A	115m NW	3 Long Yard Holborn London WC1N 3LS	EA/EPR/VP3758NS/A001	Treating waste exemption	Non-Agricultural Waste Only	Repair or refurbishment of WEEE
C	125m E	Bulk Registration Site details available on request	EPR/PE5643VR/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
C	125m E	Bulk Registration Site details available on request	EPR/PE5643VR/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting mixed waste
C	125m E	Bulk Registration Site details available on request	EPR/PE5643VR/A001	Treating waste exemption	Non-Agricultural Waste Only	Manual treatment of waste
C	125m E	Bulk Registration Site details available on request	EPR/PE5643VR/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste aerosol cans
D	164m W	Great Ormond Street Hospital NHS Trust WC1N 3JH	EPR/XE5455DH/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
D	165m W	GREAT ORMOND STREET, LONDON, WC1N 3JH	WEX332731	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
E	203m E	81 Gray's Inn Road London WC1X 8TP	EPR/HF0936CP/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
E	204m NE	81A, GRAY'S INN ROAD, LONDON, WC1X 8TP	WEX379809	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
E	204m NE	81A, GRAY'S INN ROAD, LONDON, WC1X 8TP	WEX387635	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal



ID	Location	Site	Reference	Category	Sub-Category	Description
2	226m E	45, GRAY'S INN ROAD, LONDON, WC1X 8PP	WEX358278	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
3	251m N	LONDON HOUSE, MECKLENBURGH SQUARE, LONDON, WC1N 2AB	WEX274302	Disposing of waste exemption	Not on a farm	Disposal by incineration
4	280m E	52-54 Mount Pleasant LONDON WC1X 0AL	EPR/DH0919Y S/A001	Using waste exemption	Non- Agricultural Waste Only	Use of waste in construction
5	296m NW	93, GUILFORD STREET, LONDON, WC1N 1DN	WEX146943	Disposing of waste exemption	Not on a farm	Burning waste in the open
F	305m W	25-33 Queen Square London Camden WC1N 3BG	EPR/TF0008FJ/ A001	Treating waste exemption	Non- Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
6	308m N	171-173, GRAY'S INN ROAD, LONDON, WC1X 8UE	WEX098530	Using waste exemption	Not on a farm	Use of waste in construction
F	309m W	QUEEN SQUARE, LONDON, WC1N 3BG	WEX135995	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
7	323m NW	University Of London International Hall London WC1N 1AS	EPR/LF0804M U/A001	Treating waste exemption	Non- Agricultural Waste Only	Crushing waste fluorescent tubes
F	323m W	-	WEX370871	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
F	323m W	-	WEX243535	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
8	331m NE	2, Gough Street, London, WC1X0DH	WEX275435	Using waste exemption	Not on a farm	Use of waste in construction
G	367m SW	88, SOUTHAMPTON ROW, LONDON, WC1B 4BB	WEX388445	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
G	367m SW	88, SOUTHAMPTON ROW, LONDON, WC1B 4BB	WEX120149	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
G	367m SW	88, SOUTHAMPTON ROW, LONDON, WC1B 4BB	WEX260520	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
H	384m NE	BPMA CALTHORPE HOUSE 15-20 PHOENIX PLACE LONDON WC1X 0DL	EPR/KF0009CC /A001	Using waste exemption	Non- Agricultural Waste Only	Use of waste in construction



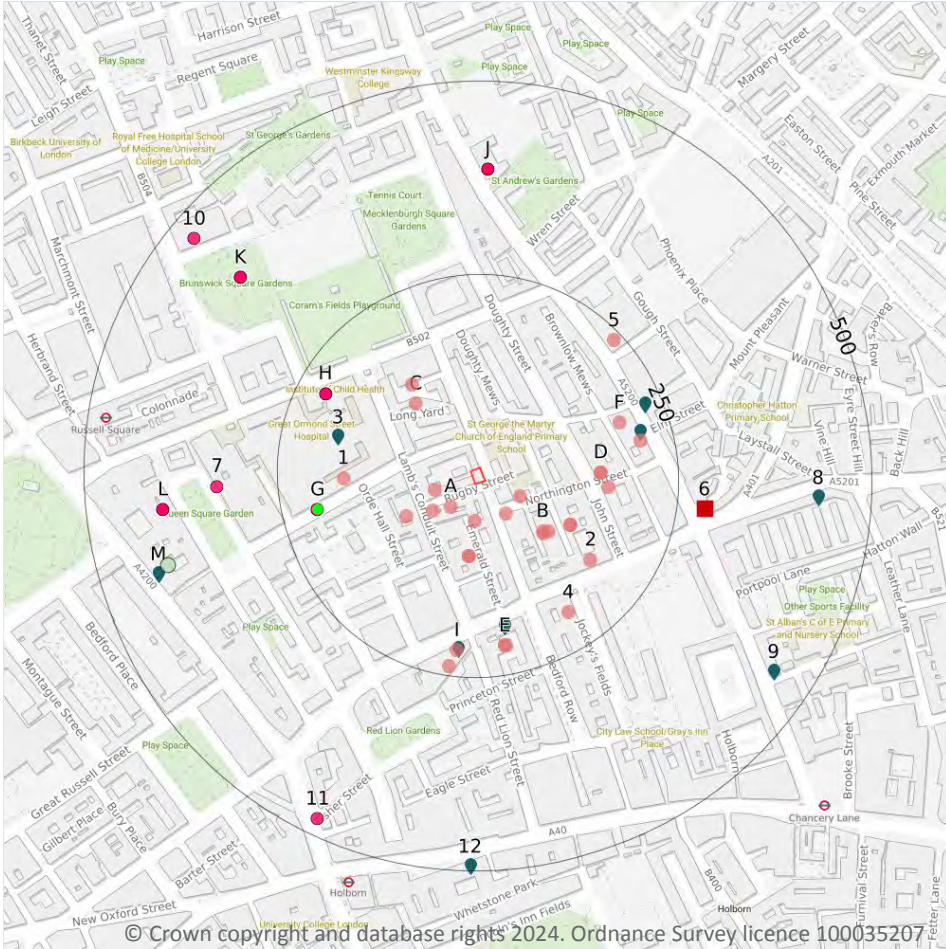
ID	Location	Site	Reference	Category	Sub-Category	Description
H	384m NE	BPMA CALTHORPE HOUSE 15-20 PHOENOX PLACE LONDON WC1X 0DL	EPR/KF0009CC /A001	Treating waste exemption	Non- Agricultural Waste Only	Screening and blending of waste
9	395m N	256 Grays Inn Road, London, London, WC1X 8LD	WEX254786	Using waste exemption	Not on a farm	Use of waste in construction
I	414m W	Clockwork Pharmacy, 150 Southampton Row, London, WC1B 5AN	WEX150089	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
I	414m W	Clockwork Pharmacy, 150 Southampton Row, London, WC1B 5AN	WEX150089	Storing waste exemption	Not on a farm	Storage of waste in secure containers
I	414m W	Clockwork Pharmacy, 150 Southampton Row, London, WC1B 5AN	WEX150089	Disposing of waste exemption	Not on a farm	Disposal by incineration
I	417m W	150 Southampton Row London Camden WC1B 5AN	EPR/RE5845EC /A001	Treating waste exemption	Non- Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
J	441m NE	For City of London Corporation	EPR/EE5952N U/A001	Using waste exemption	Agricultural Waste Only	Use of mulch
J	448m NE	MOUNT PLEASANT MAIL CENTRE, FARRINGDON ROAD, LONDON, EC1A 1BB	WEX143534	Using waste exemption	Not on a farm	Use of waste in construction
K	474m SW	ACT JV Systemwide Crossrail Contract C610 8- 10 Southampton Row London WC1B 4AE	EPR/EF0706NB /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in secure containers
K	474m SW	ACT JV Systemwide Crossrail Contract C610 8- 10 Southampton Row London WC1B 4AE	EPR/EF0706NB /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in a secure place
K	474m SW	ACT JV Systemwide Crossrail Contract C610 8- 10 Southampton Row London WC1B 4AE	EPR/EF0706NB /A001	Using waste exemption	Non- Agricultural Waste Only	Use of waste in construction
L	496m SE	RYNESS ELECTRICAL SUPPLIES, 306 HIGH HOLBORN, LONDON, WC1V 7JZ	WEX088388	Storing waste exemption	Not on a farm	Storage of waste in a secure place
L	496m SE	306 High Holborn London WC1V 7JZ	EPR/YE5982Q G/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of waste in a secure place



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



## 4 Current industrial land use



### 4.1 Recent industrial land uses

Records within 250m

29

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 34](#) >

ID	Location	Company	Address	Activity	Category
A	43m SW	Maggie Owen London	13, Rugby Street, London, Greater London, WC1N 3QT	Jewellery, Gems, Clocks and Watches	Consumer Products
A	48m S	Stylist	26-34, Emerald Street, London, Greater London, WC1N 3QA	Published Goods	Industrial Products



ID	Location	Company	Address	Activity	Category
A	49m SE	Soho Skip Service	Copperfield House, 20, Northington Street, London, Greater London, WC1N 2NW	Construction and Tool Hire	Hire Services
A	50m SE	Brazilian Aeronautica   Commission in Europe	16, Great James Street, London, Greater London, WC1N 3DP	Aeroplanes	Industrial Products
A	51m W	Mobile Mechanic Near Me	42a Rugby Street, Camden, London, Greater London, WC1N 3QU	Vehicle Repair, Testing and Servicing	Repair and Servicing
A	65m SW	La Fromagerie	52, Lamb's Conduit Street, London, Greater London, WC1N 3LL	Dairy Products	Foodstuffs
A	93m S	Mannion Daniels Ltd	2nd Floor 11-15, Emerald Street, London, Greater London, WC1N 3QL	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products
A	93m S	Study Travel	11-15, Emerald Street, London, Greater London, WC1N 3QL	Published Goods	Industrial Products
A	98m SW	Brand Progression	47, Lamb's Conduit Street, London, Greater London, WC1N 3NG	Clothing, Components and Accessories	Consumer Products
B	99m SE	Tamara Gomez	E7 Cockpit Yard, Northington Street, Camden, London, Greater London, WC1N 2NP	Jewellery, Gems, Clocks and Watches	Consumer Products
B	102m SE	Judy Bentinck Millinery	Studio E2I Cockpit Arts, Northington Street, Camden, London, Greater London, WC1N 2NP	Clothing, Components and Accessories	Consumer Products
B	105m SE	Catherine Mannheim	Studio E15 Cockpit Arts, Northington Street, Camden, London, Greater London, WC1N 2NP	Jewellery, Gems, Clocks and Watches	Consumer Products
C	113m NW	Corporate Mobile Recycling	3, Long Yard, London, Greater London, WC1N 3LS	Recycling, Reclamation and Disposal	Recycling Services
B	124m SE	Hurst Peirce & Malcolm LLP	Offices and Premises at Basement Rooms 1 to 3 and 5 Celtic House 33, John's Mews, London, Greater London, WC1N 2QL	Structural Engineers	Engineering Services
B	124m SE	Samuely	Offices and Premises at 3rd Floor Celtic House 33, John's Mews, London, Greater London, WC1N 2NS	Civil Engineers	Engineering Services
C	135m NW	Electricity Sub Station	Greater London, WC1N	Electrical Features	Infrastructure and Facilities
D	150m E	Business Traveller	10, John Street, London, Greater London, WC1N 2EB	Published Goods	Industrial Products





ID	Location	Company	Address	Activity	Category
D	150m E	Method Recycle	10, John Street, London, Greater London, WC1N 2EB	Waste Storage, Processing and Disposal	Infrastructure and Facilities
D	159m E	C W A International Ltd	9, John Street, London, Greater London, WC1N 2ES	Marine Engineers and Services	Engineering Services
1	165m W	Great Ormond Street Hospital	-, Great Ormond Street, London, Greater London, WC1N 3JH	Hospitals	Health Practitioners and Establishments
2	170m SE	Swiftline	28-30, Theobald's Road, London, Greater London, WC1X 8NX	Mechanical Engineers	Engineering Services
F	189m E	Essilor	2-3, North Mews, London, Greater London, WC1N 2JP	Photographic and Optical Equipment	Consumer Products
4	201m SE	Ryland Peters & Small	20-21, Jockey's Fields, London, Greater London, WC1R 4BW	Published Goods	Industrial Products
F	208m E	Grays Inn Hardware	67, Gray's Inn Road, London, Greater London, WC1X 8TL	General Construction Supplies	Industrial Products
E	212m S	Modulous	Dog and Duck Yard, Princeton Street, London, Greater London, WC1R 4BH	Structural Engineers	Engineering Services
E	212m S	Battle McCarthy	Dog and Duck Yard, Princeton Street, London, Greater London, WC1R 4BH	Civil Engineers	Engineering Services
I	216m S	P J B Group Services Ltd	31, Theobalds Road, London, Greater London, WC1X 8SP	Mechanical Engineers	Engineering Services
I	238m S	Syncbox	14-15, Lamb's Conduit Passage, London, Greater London, WC1R 4RH	Recording Studios and Record Companies	IT, Advertising, Marketing and Media Services
5	239m NE	Simon & Amp Schuster	222, Gray's Inn Road, London, Greater London, WC1X 8HB	Published Goods	Industrial Products

*This data is sourced from Ordnance Survey.*



## 4.2 Current or recent petrol stations

Records within 500m	0
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Open, closed, under development and obsolete petrol stations.

*This data is sourced from Experian.*

## 4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

## 4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

## 4.5 Sites determined as Contaminated Land

Records within 500m	0
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Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

*This data is sourced from Local Authority records.*

## 4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0
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Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

*This data is sourced from the Health and Safety Executive.*

## 4.7 Regulated explosive sites

**Records within 500m** **0**

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

*This data is sourced from the Health and Safety Executive.*

## 4.8 Hazardous substance storage/usage

**Records within 500m** **0**

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

*This data is sourced from Local Authority records.*

## 4.9 Historical licensed industrial activities (IPC)

**Records within 500m** **0**

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

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

## 4.10 Licensed industrial activities (Part A(1))

**Records within 500m** **0**

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

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

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

**Records within 500m** **11**

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

Features are displayed on the Current industrial land use map on [page 34](#) >

ID	Location	Address	Details	
3	177m W	Inst Child Health, Guildford St, WC1 1EH	Process: Combustion & Incineration Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
E	188m S	Matthew Daniel Dry Cleaners Ltd, 13 Theobalds Road, WC1X 8SL	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
E	188m S	Matthew Daniel Dry Cleaners Ltd, 13 Theobalds Road, WC1X 8SL	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
F	209m E	Droplet UK, 69 Gray's Inn Road Holborn, London WC1X 8TP	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
I	214m S	Boyle's Dry Cleaning, 29 Theobalds Road, Holborn, London, WC1X 8SP	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
F	227m NE	Comfort Dry Cleaners and Laundry, 184 Gray's Inn Road, WC1X 8EW	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
M	425m W	Capri Cleaners, 148 Southampton Row, WC1B 5AG	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
M	425m W	Capri Cleaners, 148 Southampton Row, WC1B 5AG	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
8	430m E	Kirstal Dry Cleaners, 103 Clerkenwell Road, EC1R 5BX	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
9	447m SE	Grays Inn Specialist Drycleaners, 50 Grays Inn Road, Holborn, London, WC1X 8LS	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified



ID	Location	Address	Details	
12	494m S	Rosewood London, 252 High Holborn, Holborn, London WC1V 7EN	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

## 4.12 Radioactive Substance Authorisations

<b>Records within 500m</b>	<b>38</b>
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Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

Features are displayed on the Current industrial land use map on [page 34 >](#)

ID	Location	Address	Details	
G	203m W	Great Ormond Street Hospital for Children, Great Ormond Street, London, WC1N 3JH	Operator: Great Ormond Street Hospital for Children NHS Foundation Trust Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: CD1584 Date of approval: 24/11/2008	Effective from: - Last date of update: 01/01/2020 Status: Replaced
G	203m W	Great Ormond Street Hospital for Children, Great Ormond Street, London, WC1N 3JH	Operator: Great Ormond Street Hospital for Children NHS Foundation Trust Type: - Permission number: XB3994DN Date of approval: -	Effective from: 01/04/2018 Last date of update: 01/01/2020 Status: Issued
G	203m W	Great Ormond Street Hospital for Children, Great Ormond Street, London, WC1N 3JH	Operator: Great Ormond Street Hospital for Children NHS Foundation Trust Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: CD1711 Date of approval: 24/11/2008	Effective from: - Last date of update: 01/01/2020 Status: Replaced
G	203m W	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Operator: Great Ormond Street Hospital For Children Nhs Trust Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AB5415 Date of approval: 06/11/1991	Effective from: 06/11/1991 Last date of update: 06/01/2005 Status: Superseded By Variation



ID	Location	Address	Details	
G	203m W	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Operator: Great Ormond Street Hospital For Children Nhs Trust Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AB5415 Date of approval: 11/01/2000	Effective from: 11/01/2000 Last date of update: 01/01/2015 Status: Superseded By Variation
G	203m W	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Operator: Great Ormond Street Hospital For Children Nhs Trust Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AB5415 Date of approval: 21/02/2005	Effective from: 21/02/2005 Last date of update: 01/01/2015 Status: Superseded By Variation
G	203m W	Hospital For Sick Children, Great Ormond Street, London, WC1N 3JH	Operator: Hospital For Sick Children Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AB5431 Date of approval: 26/06/1993	Effective from: 26/07/1993 Last date of update: 01/01/2015 Status: Revoked/cancelled
G	203m W	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Operator: Great Ormond Street Hospital For Children Nhs Trust Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BG6243 Date of approval: 11/01/2000	Effective from: 31/01/2000 Last date of update: 01/01/2015 Status: Superseded By Variation
G	203m W	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Operator: Great Ormond Street Hospital For Children Nhs Trust Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BG6243 Date of approval: 01/12/2003	Effective from: 01/01/2004 Last date of update: 01/01/2015 Status: Superseded By Variation
G	203m W	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Operator: Great Ormond Street Hospital For Children Nhs Trust Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BG6243 Date of approval: 21/02/2005	Effective from: 21/03/2005 Last date of update: 01/01/2015 Status: Superseded By Variation
G	203m W	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Operator: Great Ormond Street Hospital For Children Nhs Trust Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BG6243 Date of approval: 05/01/2006	Effective from: 05/01/2006 Last date of update: 01/01/2015 Status: Superseded By Variation



ID	Location	Address	Details	
H	213m NW	Institute Of Child Health, 30 Guildford Street, London, WC1N 1EH	Operator: Institute Of Child Health Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AH9871 Date of approval: 01/09/1993	Effective from: 29/09/1993 Last date of update: 01/01/2015 Status: Superseded By Variation
H	213m NW	Institute Of Child Health, 30 Guildford Street, London, WC1N 1EH	Operator: Institute Of Child Health Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AH9871 Date of approval: 26/03/1998	Effective from: 20/04/1998 Last date of update: 01/01/2015 Status: Superseded By Variation
H	213m NW	Institute Of Child Health, 30 Guildford Street, London, WC1N 1EH	Operator: Institute Of Child Health Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AH9871 Date of approval: 01/12/2003	Effective from: 01/01/2004 Last date of update: 01/01/2015 Status: Superseded By Variation
H	213m NW	Institute Of Child Health, 30 Guildford Street, London, WC1N 1EH	Operator: Institute Of Child Health Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AH9871 Date of approval: 04/01/2006	Effective from: 04/01/2006 Last date of update: 01/01/2015 Status: Superseded By Variation
7	328m W	The National Hospital for Neurology & Neurosurgery, Queen Square, London, WC1N 3BG	Operator: University College London Hospitals NHS Foundation Trust Type: - Permission number: WB3595DG Date of approval: -	Effective from: 12/03/2015 Last date of update: 01/01/2020 Status: Issued
J	386m N	The Eastman Dental Institute, 256 Grays Inn Road, London, WC1X 8LD	Operator: University College London Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: BU7464 Date of approval: 27/09/2004	Effective from: - Last date of update: 01/01/2020 Status: Surrendered
J	386m N	The Eastman Dental Institute, 256 Grays Inn Road, London, WC1X 8LD	Operator: University College London Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: CA0034 Date of approval: 04/01/2006	Effective from: - Last date of update: 01/01/2020 Status: Surrendered
J	386m N	Eastman Dental Hospital, 256 Grays Inn Road, London, WC1X 8LD	Operator: Eastman Dental Hospital Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AA1775 Date of approval: 30/10/1991	Effective from: 30/10/1991 Last date of update: 06/01/2005 Status: Superseded By Variation



ID	Location	Address	Details	
J	386m N	Eastman Dental Hospital, 256 Grays Inn Road, London, WC1X 8LD	Operator: Eastman Dental Hospital Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AA1775 Date of approval: 15/10/1996	Effective from: 15/10/1996 Last date of update: 01/01/2015 Status: Revoked/cancelled
J	386m N	Eastman Dental Hospital, Eastman Dental Institute, 256 Grays Inn Road, London, WC1X 8LD	Operator: Eastman Dental Hospital Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AA1783 Date of approval: 15/10/1996	Effective from: 04/11/1996 Last date of update: 01/01/2015 Status: Revoked/cancelled
J	386m N	University College London, Eastman Dental Institute, 256 Grays Inn Road, London, WC1X 8LD	Operator: University College London Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BU7456 Date of approval: 27/09/2004	Effective from: 25/10/2004 Last date of update: 01/01/2015 Status: Superseded By Variation
K	389m NW	School of Pharmacy, 29-39 Brunswick Square, London, WC1N 1AX	Operator: University of London Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: CA0727 Date of approval: 05/01/2006	Effective from: - Last date of update: 01/01/2020 Status: Transferred
K	389m NW	School of Pharmacy, 29-39 Brunswick Square, London, WC1N 1AX	Operator: University of London Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: CC7331 Date of approval: 30/07/2008	Effective from: - Last date of update: 01/01/2020 Status: Transferred
K	389m NW	University Of London, 29-39 Brunswick Square, London, WC1N 1AX	Operator: University Of London Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AC4554 Date of approval: 31/03/1991	Effective from: 31/03/1991 Last date of update: 01/01/2015 Status: Superseded By Variation
K	389m NW	University Of London, 29-39 Brunswick Square, London, WC1N 1AX	Operator: University Of London Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AC4554 Date of approval: 26/06/1995	Effective from: 27/07/1995 Last date of update: 01/01/2015 Status: Superseded By Variation
K	389m NW	University Of London, 29-39 Brunswick Square, London, WC1N 1AX	Operator: University Of London Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AC4554 Date of approval: 20/02/1998	Effective from: 20/03/1998 Last date of update: 01/01/2015 Status: Superseded By Variation





ID	Location	Address	Details	
K	389m NW	University Of London, 29-39 Brunswick Square, London, WC1N 1AX	Operator: University Of London Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AC4554 Date of approval: 01/12/2003	Effective from: 01/01/2004 Last date of update: 01/01/2015 Status: Superseded By Variation
L	400m W	Institute of Neurology, Queens Square, London, WC1N 3BG	Operator: University College London Type: - Permission number: LB3594DA Date of approval: -	Effective from: 18/08/2016 Last date of update: 01/01/2020 Status: Issued
L	400m W	Institute of Neurology, Queens Square, London, WC1N 3BG	Operator: University College London Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: BW3222 Date of approval: 04/08/2004	Effective from: - Last date of update: 01/01/2020 Status: Replaced
L	400m W	Institute of Neurology, Queens Square, London, WC1N 3BG	Operator: University College London Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: BZ9944 Date of approval: 04/01/2006	Effective from: - Last date of update: 01/01/2020 Status: Replaced
L	400m W	National Hospital For Neurology And Neurosurgery, Institute Of Neurology, Queen Square, London, WC1N 3BG	Operator: National Hospital For Neurology And Neurosurgery Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AW7223 Date of approval: 15/10/1996	Effective from: 04/11/1996 Last date of update: 01/01/2015 Status: Revoked/cancelled
L	400m W	Institute Of Neurology, Queen Square House, Queen Square, London, WC1N 3BG	Operator: Institute Of Neurology Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AR3488 Date of approval: 26/07/1995	Effective from: 24/08/1995 Last date of update: 01/01/2015 Status: Superseded By Variation
L	400m W	Institute Of Neurology, Queen Square House, Queen Square, London, WC1N 3BG	Operator: Institute Of Neurology Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AR3488 Date of approval: 03/08/2004	Effective from: 31/08/2004 Last date of update: 01/01/2015 Status: Superseded By Variation
L	400m W	Institute Of Neurology, Queen Square House, Queen Square, London, WC1N 3BG	Operator: Institute Of Neurology Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AR3488 Date of approval: 01/12/2003	Effective from: 01/01/2004 Last date of update: 01/01/2015 Status: Superseded By Variation



ID	Location	Address	Details	
L	400m W	University College London, Institute Of Neurology, Queen Square, London, WC1N 3BG	Operator: University College London Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: AR3500 Date of approval: 04/03/1996	Effective from: 04/03/1996 Last date of update: 01/01/2015 Status: Superseded By Variation
10	467m NW	School of Pharmacy, 29-39 Brunswick Square, London, WC1N 1AX	Operator: University College London Type: - Permission number: FB3095DM Date of approval: -	Effective from: 19/08/2014 Last date of update: 01/01/2020 Status: Issued
11	478m SW	York Cameras (London) Ltd, 1 Victoria Colonnade, Southampton Row, London, WC1	Operator: York Cameras (London) Ltd Type: Disposal Of Radioactive Waste (was Rsa60 Section 6). Permission number: AR3933 Date of approval: 01/04/1991	Effective from: 01/04/1991 Last date of update: 01/01/2015 Status: Revoked/cancelled

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

#### 4.13 Licensed Discharges to controlled waters

**Records within 500m**

**0**

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

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

#### 4.14 Pollutant release to surface waters (Red List)

**Records within 500m**

**0**

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

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

#### 4.15 Pollutant release to public sewer

**Records within 500m**

**0**

Discharges of Special Category Effluents to the public sewer.

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



## 4.16 List 1 Dangerous Substances

Records within 500m

1

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

Features are displayed on the Current industrial land use map on [page 34 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
6	286m E	Pentonville Plating Co Ltd, Queensland Road, London, Nw10	Active	Thames Estuary	Mercury (other), Cadmium

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

## 4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

## 4.18 Pollution Incidents (EA/NRW)

Records within 500m

1

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

Features are displayed on the Current industrial land use map on [page 34 >](#)

ID	Location	Details	
M	410m W	Incident Date: 29/09/2001 Incident Identification: 33704 Pollutant: Organic Chemicals/Products Pollutant Description: Solvents	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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



#### 4.19 Pollution inventory substances

Records within 500m

0

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

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

#### 4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

#### 4.21 Pollution inventory radioactive waste

Records within 500m

1

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

Features are displayed on the Current industrial land use map on [page 34 >](#)

ID: G, Location: 204m W, Permit: XB3994DN  
 Operator: Great Ormond Street Hospital for Children NHS Foundation Trust  
 Address: GREAT ORMOND STREET LONDON WC1N 3JH  
 Releases:

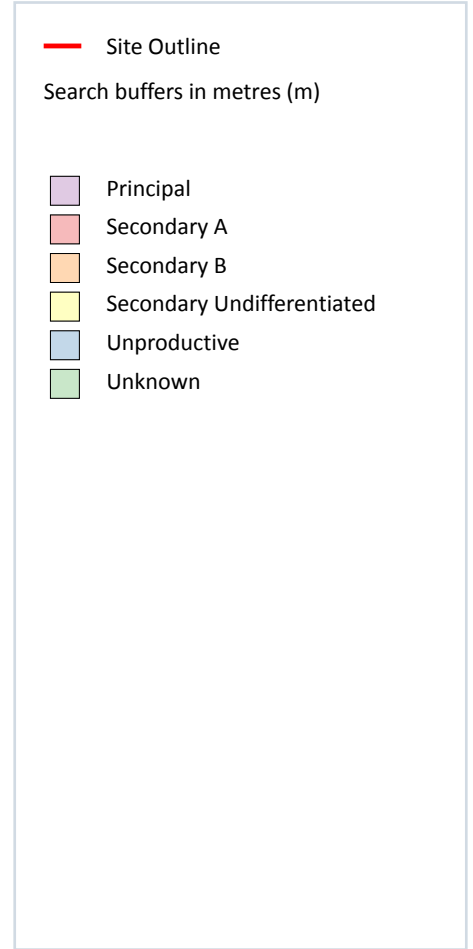
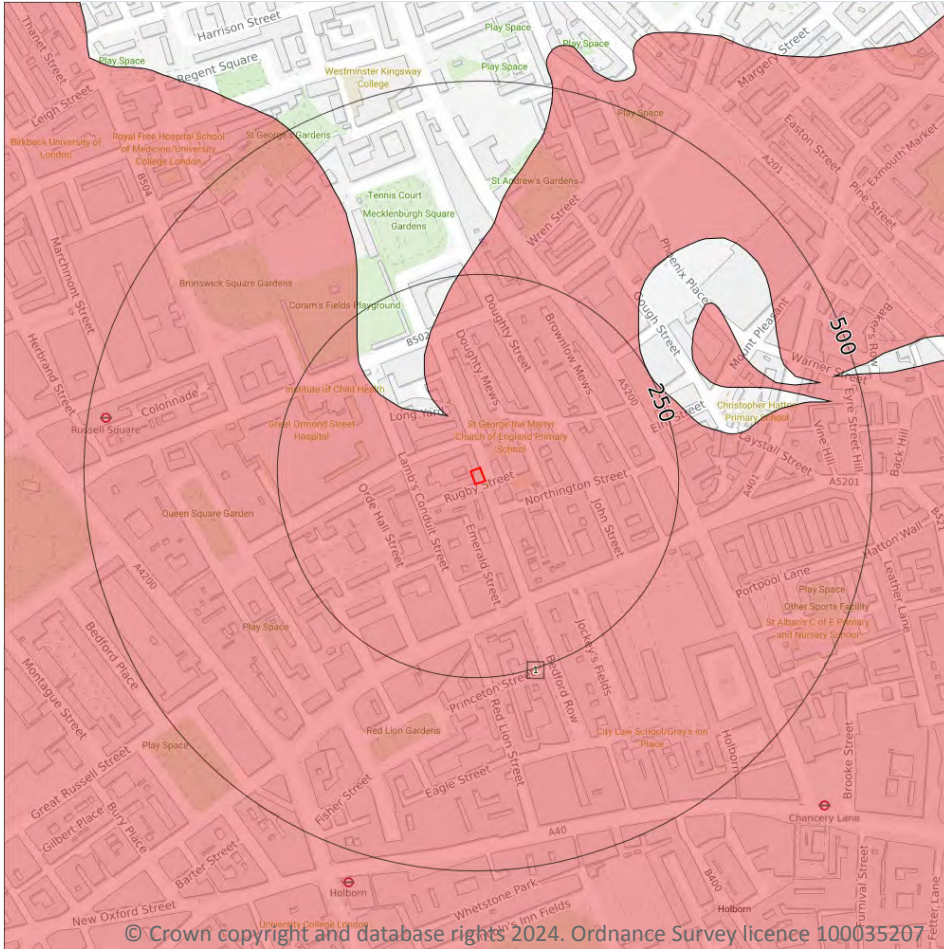
Route	Substance	Quantity released
Wastewater	Tritium	--
Wastewater	Selenium 75	3.7MBq -
Wastewater	Technetium 99m	34.2GBq -
Wastewater	Indium 111	--
Wastewater	Iodine 123	8.5GBq -

Route	Substance	Quantity released
Wastewater	Total Beta/Gamma (Excl Tritium)	42.8GBq -

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



## 5 Hydrogeology - Superficial aquifer



### 5.1 Superficial aquifer

Records within 500m

1

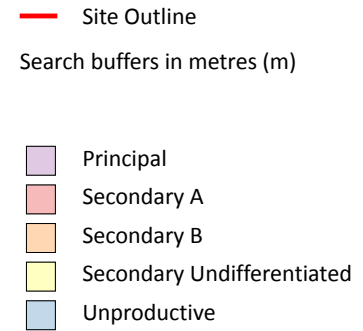
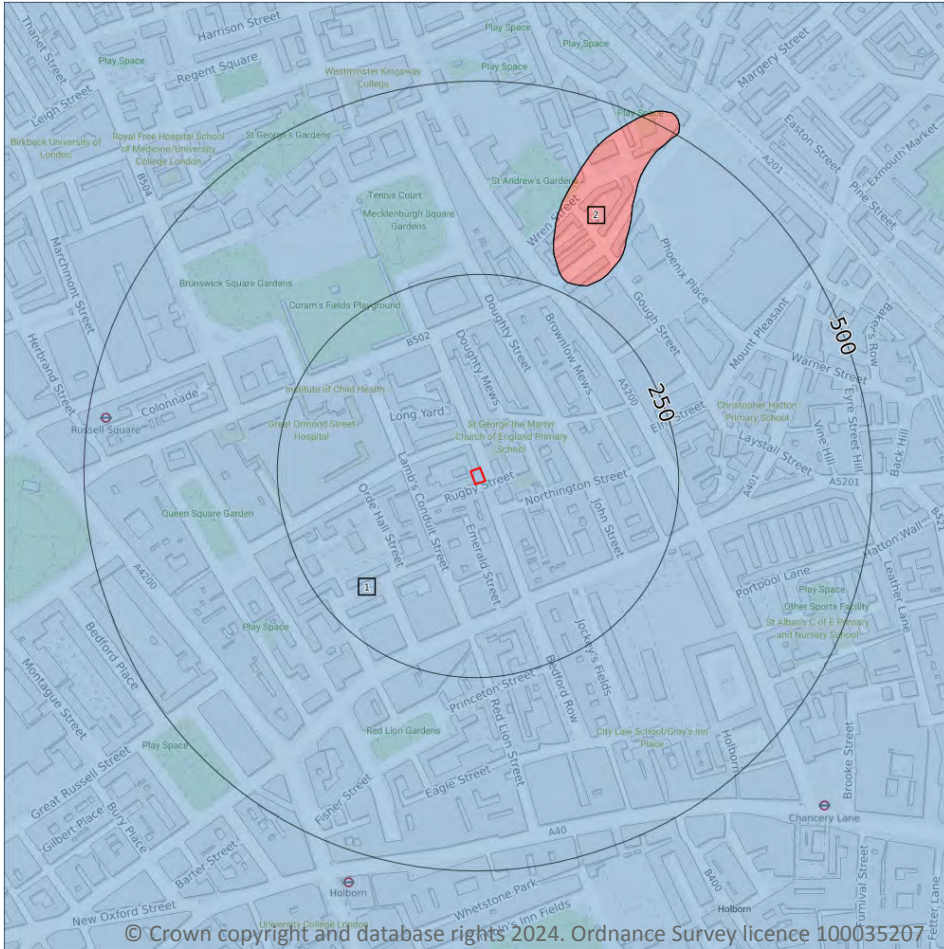
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 49](#) >

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

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

## Bedrock aquifer



## 5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

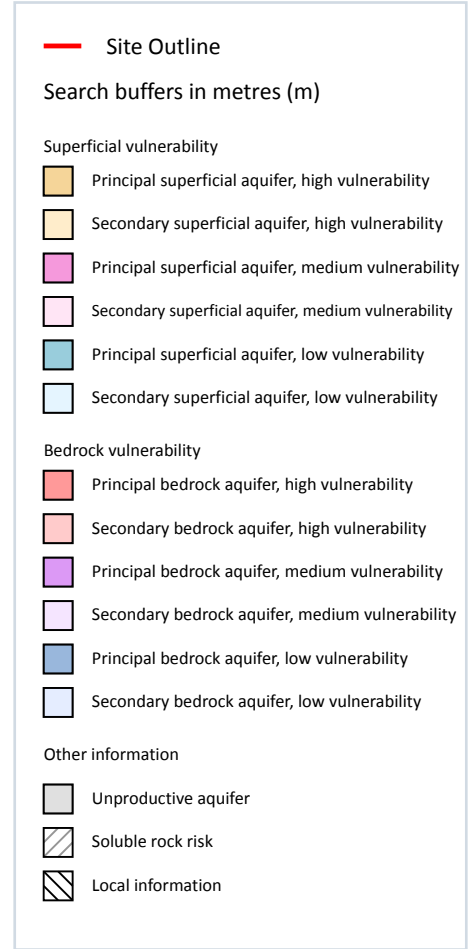
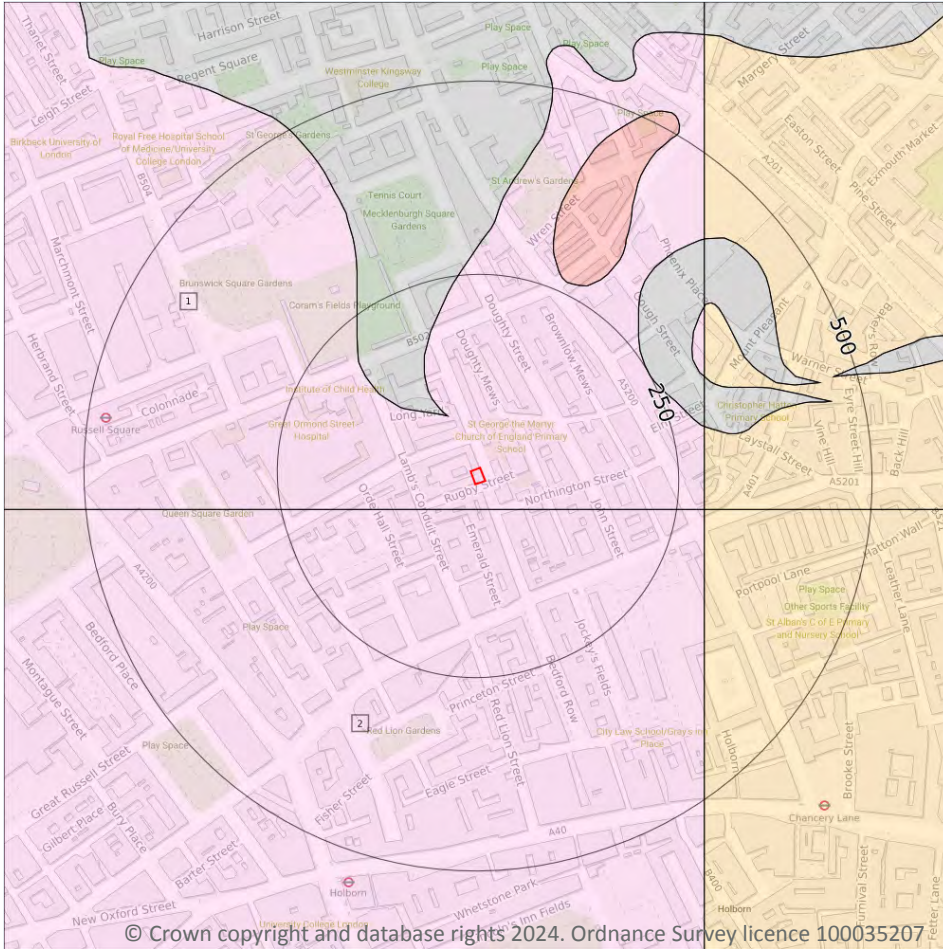
Features are displayed on the Bedrock aquifer map on [page 50](#) >

ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	265m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



## Groundwater vulnerability



### 5.3 Groundwater vulnerability

Records within 50m

2

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

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

Features are displayed on the Groundwater vulnerability map on [page 51 >](#)





ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	<b>Summary Classification:</b> Secondary superficial aquifer - Medium Vulnerability <b>Combined classification:</b> Unproductive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class:</b> Intermediate <b>Infiltration value:</b> >70% <b>Dilution value:</b> 300-550mm/year	<b>Vulnerability:</b> Medium <b>Aquifer type:</b> Secondary <b>Thickness:</b> <3m <b>Patchiness value:</b> <90% <b>Recharge potential:</b> No Data	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Flow mechanism:</b> Mixed
2	32m S	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class:</b> Intermediate <b>Infiltration value:</b> >70% <b>Dilution value:</b> 300-550mm/year	<b>Vulnerability:</b> Medium <b>Aquifer type:</b> Secondary <b>Thickness:</b> 3-10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> No Data	<b>Vulnerability:</b> Unproductive <b>Aquifer type:</b> Unproductive <b>Flow mechanism:</b> Mixed

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

## 5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

## 5.5 Groundwater vulnerability- local information

Records on site

0

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

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

## Abstractions and Source Protection Zones



### 5.6 Groundwater abstractions

Records within 2000m

113

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 53 >](#)

ID	Location	Details	
-	858m W	Status: Active Licence No: TH/039/0039/031/R01 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: KEPPEL STREET, BLOOMSBURY, LONDON - BOREHOLE 1 Data Type: Point Name: London School of Hygiene and Tropical Medicine Easting: 529860 Northing: 181863	Annual Volume (m <sup>3</sup> ): 203407 Max Daily Volume (m <sup>3</sup> ): 558 Original Application No: NPS/WR/026763 Original Start Date: 04/04/2019 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 04/04/2019 Version End Date: -
-	858m W	Status: Historical Licence No: TH/039/0039/031 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE 1, KEPPEL STREET Data Type: Point Name: London School of Hygiene and Tropical Medicine Easting: 529860 Northing: 181863	Annual Volume (m <sup>3</sup> ): 203407 Max Daily Volume (m <sup>3</sup> ): 558 Original Application No: - Original Start Date: 08/11/2010 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 08/11/2010 Version End Date: -
-	858m W	Status: Historical Licence No: TH/039/0039/031 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: KEPPEL STREET, BLOOMSBURY, LONDON - BOREHOLE 1 Data Type: Point Name: London School of Hygiene and Tropical Medicine Easting: 529860 Northing: 181863	Annual Volume (m <sup>3</sup> ): 203407 Max Daily Volume (m <sup>3</sup> ): 558 Original Application No: - Original Start Date: 08/11/2010 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 01/04/2011 Version End Date: -
-	859m W	Status: Active Licence No: TH/039/0039/031/R01 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: KEPPEL STREET, BLOOMSBURY, LONDON - BOREHOLE 2 Data Type: Point Name: London School of Hygiene and Tropical Medicine Easting: 529858 Northing: 181865	Annual Volume (m <sup>3</sup> ): 203407 Max Daily Volume (m <sup>3</sup> ): 558 Original Application No: NPS/WR/026763 Original Start Date: 04/04/2019 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 04/04/2019 Version End Date: -



ID	Location	Details	
-	859m W	Status: Historical Licence No: TH/039/0039/031 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE 2, KEPPEL STREET Data Type: Point Name: London School of Hygiene and Tropical Medicine Easting: 529858 Northing: 181865	Annual Volume (m <sup>3</sup> ): 203407 Max Daily Volume (m <sup>3</sup> ): 558 Original Application No: - Original Start Date: 08/11/2010 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 08/11/2010 Version End Date: -
-	859m W	Status: Historical Licence No: TH/039/0039/031 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: KEPPEL STREET, BLOOMSBURY, LONDON - BOREHOLE 2 Data Type: Point Name: London School of Hygiene and Tropical Medicine Easting: 529858 Northing: 181865	Annual Volume (m <sup>3</sup> ): 203407 Max Daily Volume (m <sup>3</sup> ): 558 Original Application No: - Original Start Date: 08/11/2010 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 01/04/2011 Version End Date: -
-	895m NE	Status: Active Licence No: TH/039/0039/059 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT NEW RIVER HEAD Data Type: Point Name: Thames Water Utilities Ltd Easting: 531239 Northing: 182777	Annual Volume (m <sup>3</sup> ): 1261440 Max Daily Volume (m <sup>3</sup> ): 3456 Original Application No: NPS/WR/009226 Original Start Date: 01/04/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2013 Version End Date: -
-	907m NE	Status: Historical Licence No: 28/39/39/0201 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: NEW RIVER HEAD, FINSBURY - BOREHOLE Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 531280 Northing: 182760	Annual Volume (m <sup>3</sup> ): 1261440 Max Daily Volume (m <sup>3</sup> ): 3456 Original Application No: - Original Start Date: 08/01/2004 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 08/01/2004 Version End Date: -



ID	Location	Details	
-	929m NW	Status: Active Licence No: TH/039/0039/064/R01 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT BIDBOROUGH HOUSE, 20 MABLEDON PLACE, LONDON Data Type: Point Name: University College London Easting: 530052 Northing: 182718	Annual Volume (m <sup>3</sup> ): 327600 Max Daily Volume (m <sup>3</sup> ): 1440 Original Application No: NPS/WR/026770 Original Start Date: 24/05/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 24/05/2019 Version End Date: -
-	929m NW	Status: Historical Licence No: TH/039/0039/001 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT BIDBOROUGH HOUSE 20 MABLEDON PLACE LONDON Data Type: Point Name: LONDON BOROUGH OF CAMDEN Easting: 530052 Northing: 182718	Annual Volume (m <sup>3</sup> ): 327600 Max Daily Volume (m <sup>3</sup> ): 1260 Original Application No: - Original Start Date: 09/04/2009 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 09/04/2009 Version End Date: -
-	929m NW	Status: Historical Licence No: TH/039/0039/001 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BIDBOROUGH HOUSE 20 MABLEDON PLACE LONDON Data Type: Point Name: LONDON BOROUGH OF CAMDEN Easting: 530052 Northing: 182718	Annual Volume (m <sup>3</sup> ): 327600 Max Daily Volume (m <sup>3</sup> ): 1260 Original Application No: - Original Start Date: 09/04/2009 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 09/04/2009 Version End Date: -
-	929m NW	Status: Historical Licence No: TH/039/0039/064 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT BIDBOROUGH HOUSE, 20 MABLEDON PLACE, LONDON Data Type: Point Name: University College London Easting: 530052 Northing: 182718	Annual Volume (m <sup>3</sup> ): 327600 Max Daily Volume (m <sup>3</sup> ): 1440 Original Application No: - Original Start Date: 16/04/2013 Expiry Date: 31/03/2019 Issue No: 2 Version Start Date: 21/11/2014 Version End Date: -



ID	Location	Details	
-	939m E	Status: Historical Licence No: 28/39/39/0206 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: 86-88 CLERKENWELL ROAD, LONDON-BOREHOLE A Data Type: Point Name: Zorca Hospitality Limited Easting: 531650 Northing: 182150	Annual Volume (m <sup>3</sup> ): 25404 Max Daily Volume (m <sup>3</sup> ): 125 Original Application No: - Original Start Date: 04/07/2003 Expiry Date: 31/03/2025 Issue No: 5 Version Start Date: 02/03/2021 Version End Date: -
-	940m E	Status: Active Licence No: 28/39/39/0206 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: 86-88 CLERKENWELL ROAD, LONDON-BOREHOLE A Data Type: Point Name: Zorca Hospitality Limited Easting: 531652 Northing: 182133	Annual Volume (m <sup>3</sup> ): 25404 Max Daily Volume (m <sup>3</sup> ): 125 Original Application No: NPS/WR/035073 Original Start Date: 04/07/2003 Expiry Date: 31/03/2025 Issue No: 5 Version Start Date: 02/03/2021 Version End Date: -
-	945m E	Status: Historical Licence No: 28/39/39/0176 Details: Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: CHARTERHOUSE STREET, LONDON - BOREHOLE A Data Type: Point Name: CITIGEN (LONDON) LTD Easting: 531600 Northing: 181700	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 23/12/1994 Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 11/01/1995 Version End Date: -
-	945m E	Status: Historical Licence No: 28/39/39/0176 Details: Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: CHARTERHOUSE STREET, LONDON - BOREHOLE B Data Type: Point Name: CITIGEN (LONDON) LTD Easting: 531600 Northing: 181700	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 23/12/1994 Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 11/01/1995 Version End Date: -



ID	Location	Details	
-	957m E	Status: Historical Licence No: 28/39/39/0176 Details: Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: 2 BOREHOLES AT CHARTERHOUSE STREET, SMITHFIELD AT POINT A Data Type: Point Name: CITIGEN (LONDON) LTD Easting: 531630 Northing: 181750	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 23/12/1994 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: 01/04/2000 Version End Date: -
-	984m E	Status: Active Licence No: TH/039/0039/175 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: POINT A AT CHARTERHOUSE ST Data Type: Point Name: Citigen (London) Limited Easting: 531649 Northing: 181719	Annual Volume (m <sup>3</sup> ): 3030960 Max Daily Volume (m <sup>3</sup> ): 8304 Original Application No: NPS/WR/033839 Original Start Date: 30/01/2023 Expiry Date: 31/03/2037 Issue No: 1 Version Start Date: 30/01/2023 Version End Date: -
-	987m E	Status: Active Licence No: TH/039/0039/175 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: POINT B AT CHARTERHOUSE ST Data Type: Point Name: Citigen (London) Limited Easting: 531653 Northing: 181722	Annual Volume (m <sup>3</sup> ): 3030960 Max Daily Volume (m <sup>3</sup> ): 8304 Original Application No: NPS/WR/033839 Original Start Date: 30/01/2023 Expiry Date: 31/03/2037 Issue No: 1 Version Start Date: 30/01/2023 Version End Date: -
-	989m N	Status: Active Licence No: TH/039/0039/164 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: SHALLOW DEPOSITS & LONDON CLAY AT KINGS CROSS STATION Data Type: Point Name: NATIONAL RAIL Easting: 530387 Northing: 182989	Annual Volume (m <sup>3</sup> ): 71175 Max Daily Volume (m <sup>3</sup> ): 195 Original Application No: NPS/NA/001582 Original Start Date: 13/09/2022 Expiry Date: 31/03/2037 Issue No: 1 Version Start Date: 13/09/2022 Version End Date: -
-	995m E	Status: Active Licence No: TH/039/0039/175 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: POINT C AT CHARTERHOUSE ST Data Type: Point Name: Citigen (London) Limited Easting: 531663 Northing: 181727	Annual Volume (m <sup>3</sup> ): 3030960 Max Daily Volume (m <sup>3</sup> ): 8304 Original Application No: NPS/WR/033839 Original Start Date: 30/01/2023 Expiry Date: 31/03/2037 Issue No: 1 Version Start Date: 30/01/2023 Version End Date: -



ID	Location	Details	
-	1081m W	Status: Active Licence No: TH/039/0039/131 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: UCL BOREHOLE A2 Data Type: Point Name: University College London Easting: 529643 Northing: 182288	Annual Volume (m <sup>3</sup> ): 162000 Max Daily Volume (m <sup>3</sup> ): 2160 Original Application No: NPS/WR/029399 Original Start Date: 17/05/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 17/05/2019 Version End Date: -
-	1081m W	Status: Historical Licence No: TH/039/0039/131 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: UCL BOREHOLE A2 Data Type: Point Name: University College London Easting: 529643 Northing: 182288	Annual Volume (m <sup>3</sup> ): 162000 Max Daily Volume (m <sup>3</sup> ): 2160 Original Application No: - Original Start Date: 17/05/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 17/05/2019 Version End Date: -
-	1089m W	Status: Active Licence No: TH/039/0039/131 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: UCL BOREHOLE A1 Data Type: Point Name: University College London Easting: 529637 Northing: 182298	Annual Volume (m <sup>3</sup> ): 162000 Max Daily Volume (m <sup>3</sup> ): 2160 Original Application No: NPS/WR/029399 Original Start Date: 17/05/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 17/05/2019 Version End Date: -
-	1089m W	Status: Historical Licence No: TH/039/0039/131 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: UCL BOREHOLE A1 Data Type: Point Name: University College London Easting: 529637 Northing: 182298	Annual Volume (m <sup>3</sup> ): 162000 Max Daily Volume (m <sup>3</sup> ): 2160 Original Application No: - Original Start Date: 17/05/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 17/05/2019 Version End Date: -
-	1103m SE	Status: Historical Licence No: 28/39/39/0077 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT 37 FLEET STREET, LONDON EC4 Data Type: Point Name: C HOARE & CO Easting: 531300 Northing: 181100	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/06/1968 Version End Date: -





ID	Location	Details	
-	1108m S	Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GLOBE HOUSE, VICTORIA EMBANKMENT-BOREHOLE C Data Type: Point Name: COMMERZ GRUNDBESITZ INVEST. MBH Easting: 531050 Northing: 180980	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 10/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 28/03/2003 Version End Date: -
-	1111m S	Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GLOBE HOUSE, VICTORIA EMBANKMENT-BOREHOLE A Data Type: Point Name: COMMERZ GRUNDBESITZ INVEST. MBH Easting: 531060 Northing: 180980	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 10/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 28/03/2003 Version End Date: -
-	1111m S	Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GLOBE HOUSE, VICTORIA EMBANKMENT-BOREHOLE B Data Type: Point Name: COMMERZ GRUNDBESITZ INVEST. MBH Easting: 531030 Northing: 180970	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 10/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 28/03/2003 Version End Date: -
-	1115m NE	Status: Active Licence No: TH/039/0039/060 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT SADDLERS WELLS Data Type: Point Name: Thames Water Utilities Ltd Easting: 531452 Northing: 182887	Annual Volume (m <sup>3</sup> ): 473040 Max Daily Volume (m <sup>3</sup> ): 1296 Original Application No: NPS/WR/009228 Original Start Date: 01/04/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2013 Version End Date: -



ID	Location	Details	
-	1123m NE	Status: Historical Licence No: 28/39/39/0188 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT SADLERS WELLS THEATRE, LONDON Data Type: Point Name: SADLERS WELLS TRUST LTD Easting: 531450 Northing: 182900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 29/09/1998 Version End Date: -
-	1123m NE	Status: Historical Licence No: 28/39/39/0188 Details: Water Bottling Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT SADLERS WELLS THEATRE, LONDON Data Type: Point Name: SADLERS WELLS TRUST LTD Easting: 531450 Northing: 182900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 29/09/1998 Version End Date: -
-	1123m NE	Status: Historical Licence No: 28/39/39/0188 Details: Non-Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT SADLERS WELLS THEATRE, LONDON Data Type: Point Name: SADLERS WELLS TRUST LTD Easting: 531450 Northing: 182900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 29/09/1998 Version End Date: -
-	1123m NE	Status: Historical Licence No: 28/39/39/0188 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT SADLER'S WELLS THEATRE, LONDON Data Type: Point Name: SADLER'S WELLS TRUST LTD Easting: 531450 Northing: 182900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 29/09/1998 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: 18/09/2001 Version End Date: -

ID	Location	Details	
-	1123m NE	Status: Historical Licence No: 28/39/39/0188 Details: Non-Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT SADLER'S WELLS THEATRE, LONDON Data Type: Point Name: SADLER'S WELLS TRUST LTD Easting: 531450 Northing: 182900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 29/09/1998 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: 18/09/2001 Version End Date: -
-	1123m NE	Status: Historical Licence No: 28/39/39/0188 Details: Water Bottling Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT SADLER'S WELLS THEATRE, LONDON Data Type: Point Name: SADLER'S WELLS TRUST LTD Easting: 531450 Northing: 182900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 29/09/1998 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: 18/09/2001 Version End Date: -
-	1123m NE	Status: Historical Licence No: 28/39/39/0208 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT SADLER'S WELLS THEATRE, LONDON Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 531450 Northing: 182900	Annual Volume (m <sup>3</sup> ): 473040 Max Daily Volume (m <sup>3</sup> ): 1296 Original Application No: - Original Start Date: 13/12/2004 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 13/12/2004 Version End Date: -
-	1123m NE	Status: Historical Licence No: 28/39/39/0208 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: SADLER'S WELLS THEATRE, LONDON Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 531450 Northing: 182900	Annual Volume (m <sup>3</sup> ): 473040 Max Daily Volume (m <sup>3</sup> ): 1296 Original Application No: - Original Start Date: 13/12/2004 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 13/12/2004 Version End Date: -



ID	Location	Details	
-	1147m SE	Status: Active Licence No: TH/039/0039/084/R01 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: CONFINED CHALK AT CITY AND GUILDS HEAD OFFICE Data Type: Point Name: City and Guilds of London Institute Easting: 531748 Northing: 181533	Annual Volume (m <sup>3</sup> ): 126000 Max Daily Volume (m <sup>3</sup> ): 519 Original Application No: NPS/WR/026779 Original Start Date: 01/04/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2019 Version End Date: -
-	1147m SE	Status: Historical Licence No: TH/039/0039/084 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: CONFINED CHALK AT CITY AND GUILDS HEAD OFFICE Data Type: Point Name: City and Guilds of London Institute Easting: 531748 Northing: 181533	Annual Volume (m <sup>3</sup> ): 189216 Max Daily Volume (m <sup>3</sup> ): 519 Original Application No: - Original Start Date: 23/08/2013 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 23/08/2013 Version End Date: -
-	1147m SE	Status: Historical Licence No: TH/039/0039/084 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: CONFINED CHALK AT CITY AND GUILDS HEAD OFFICE Data Type: Point Name: City and Guilds of London Institute Easting: 531748 Northing: 181533	Annual Volume (m <sup>3</sup> ): 189216 Max Daily Volume (m <sup>3</sup> ): 519 Original Application No: - Original Start Date: 23/08/2013 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 23/08/2013 Version End Date: -
-	1204m SW	Status: Active Licence No: TH/039/0039/120 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE B @ CONFINED CHALK AT ILONA ROSE HOUSE Data Type: Point Name: Soho Estates Limited Easting: 529841 Northing: 181192	Annual Volume (m <sup>3</sup> ): 50000 Max Daily Volume (m <sup>3</sup> ): 792 Original Application No: NPS/WR/026279 Original Start Date: 26/03/2021 Expiry Date: 31/03/2033 Issue No: 1 Version Start Date: 26/03/2021 Version End Date: -



ID	Location	Details	
-	1216m SW	Status: Active Licence No: TH/039/0039/120 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE A @ CONFINED CHALK AT ILONA ROSE HOUSE Data Type: Point Name: Soho Estates Limited Easting: 529851 Northing: 181166	Annual Volume (m <sup>3</sup> ): 50000 Max Daily Volume (m <sup>3</sup> ): 792 Original Application No: NPS/WR/026279 Original Start Date: 26/03/2021 Expiry Date: 31/03/2033 Issue No: 1 Version Start Date: 26/03/2021 Version End Date: -
-	1248m NE	Status: Active Licence No: TH/039/0039/121 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: CONFINED CHALK AT SEBASTIAN STREET Data Type: Point Name: City, University of London Easting: 531810 Northing: 182645	Annual Volume (m <sup>3</sup> ): 200000 Max Daily Volume (m <sup>3</sup> ): 1728 Original Application No: NPS/WR/026930 Original Start Date: 19/09/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 19/09/2019 Version End Date: -
-	1267m S	Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'A' AT GLOBE HOUSE, TEMPLE PLACE, LONDON Data Type: Point Name: HAMMERSON UK PROPERTIES PLC Easting: 531000 Northing: 180800	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 10/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1995 Version End Date: -
-	1267m S	Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'B' AT GLOBE HOUSE, TEMPLE PLACE, LONDON Data Type: Point Name: HAMMERSON UK PROPERTIES PLC Easting: 531000 Northing: 180800	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 10/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1995 Version End Date: -

ID	Location	Details	
-	1267m S	Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'C' AT GLOBE HOUSE, TEMPLE PLACE, LONDON Data Type: Point Name: HAMMERSON UK PROPERTIES PLC Easting: 531000 Northing: 180800	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 10/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1995 Version End Date: -
-	1284m NE	Status: Active Licence No: TH/039/0039/121 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: CONFINED CHALK AT SEBASTIAN STREET Data Type: Point Name: City, University of London Easting: 531863 Northing: 182621	Annual Volume (m <sup>3</sup> ): 200000 Max Daily Volume (m <sup>3</sup> ): 1728 Original Application No: NPS/WR/026930 Original Start Date: 19/09/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 19/09/2019 Version End Date: -
-	1286m N	Status: Active Licence No: TH/039/0039/055 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: REGENT QUARTER - BOREHOLE A Data Type: Point Name: BNP Paribas Jersey Trust Corp Ltd and Anley Trustees Ltd Easting: 530368 Northing: 183294	Annual Volume (m <sup>3</sup> ): 323612 Max Daily Volume (m <sup>3</sup> ): 2160 Original Application No: NPS/WR/015663 Original Start Date: 06/02/2013 Expiry Date: 31/03/2025 Issue No: 2 Version Start Date: 25/06/2014 Version End Date: -
-	1304m SE	Status: Active Licence No: TH/039/0039/115 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: INNER TEMPLE GARDENS BOREHOLE Data Type: Point Name: THE HONOURABLE SOCIETY OF THE INNER TEMPLE Easting: 531315 Northing: 180878	Annual Volume (m <sup>3</sup> ): 8000 Max Daily Volume (m <sup>3</sup> ): 50 Original Application No: NPS/WR/022651 Original Start Date: 20/10/2016 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 20/10/2016 Version End Date: -



ID	Location	Details	
-	1380m SE	Status: Historical Licence No: 28/39/39/0057 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: TWO BOREHOLES AT UNILEVER HOUSE, BLACKFRIARS, LONDON EC4 Data Type: Point Name: UNILEVER LTD Easting: 531500 Northing: 180900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 09/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 09/05/1966 Version End Date: -
-	1401m W	Status: Historical Licence No: TH/039/0039/186 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: BEDFORD BASEMENT DEWATERING AREA Data Type: Poly4 Name: Modebest Builders Limited Easting: 529256 Northing: 181836	Annual Volume (m <sup>3</sup> ): 22328 Max Daily Volume (m <sup>3</sup> ): 259 Original Application No: NPS/WR/036408 Original Start Date: 27/05/2022 Expiry Date: 31/03/2023 Issue No: 1 Version Start Date: 27/05/2022 Version End Date: -
-	1404m NW	Status: Active Licence No: TH/039/0039/167 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: SHALLOW DEPOSITS & LONDON CLAY-EUSTON STATION, LONDON Data Type: Point Name: NATIONAL RAIL Easting: 529549 Northing: 182857	Annual Volume (m <sup>3</sup> ): 961848 Max Daily Volume (m <sup>3</sup> ): 2635 Original Application No: NPS/NA/001700 Original Start Date: 13/09/2022 Expiry Date: 31/03/2037 Issue No: 1 Version Start Date: 13/09/2022 Version End Date: -
-	1413m SE	Status: Historical Licence No: TH/039/0039/126 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TERTIARY SAND AND CHALK AT BLACKFRIARS BRIDGE FORESHORE Data Type: Poly4 Name: Laing O'Rourke Construction Limited Easting: 531418 Northing: 180810	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 20/03/2019 Expiry Date: 31/12/2022 Issue No: 2 Version Start Date: 12/12/2019 Version End Date: -



ID	Location	Details	
-	1425m SE	Status: Historical Licence No: TH/039/0039/156 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: OFFTAKE A - BLACKFRIARS BRIDGE FORESHORE Data Type: Point Name: Laing O'Rourke Construction Limited Easting: 531417 Northing: 180795	Annual Volume (m <sup>3</sup> ): 100000 Max Daily Volume (m <sup>3</sup> ): 6912 Original Application No: NPS/WR/032399 Original Start Date: 12/12/2019 Expiry Date: 31/12/2022 Issue No: 1 Version Start Date: 12/12/2019 Version End Date: -
-	1425m SE	Status: Historical Licence No: TH/039/0039/156 Details: Hydraulic Testing Direct Source: THAMES GROUNDWATER Point: OFFTAKE A - BLACKFRIARS BRIDGE FORESHORE Data Type: Point Name: Laing O'Rourke Construction Limited Easting: 531417 Northing: 180795	Annual Volume (m <sup>3</sup> ): 100000 Max Daily Volume (m <sup>3</sup> ): 6912 Original Application No: NPS/WR/032399 Original Start Date: 12/12/2019 Expiry Date: 31/12/2022 Issue No: 1 Version Start Date: 12/12/2019 Version End Date: -
-	1431m SE	Status: Historical Licence No: TH/039/0039/156 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: OFFTAKE B - BLACKFRIARS BRIDGE FORESHORE Data Type: Point Name: Laing O'Rourke Construction Limited Easting: 531421 Northing: 180791	Annual Volume (m <sup>3</sup> ): 100000 Max Daily Volume (m <sup>3</sup> ): 6912 Original Application No: NPS/WR/032399 Original Start Date: 12/12/2019 Expiry Date: 31/12/2022 Issue No: 1 Version Start Date: 12/12/2019 Version End Date: -
-	1431m SE	Status: Historical Licence No: TH/039/0039/156 Details: Hydraulic Testing Direct Source: THAMES GROUNDWATER Point: OFFTAKE B - BLACKFRIARS BRIDGE FORESHORE Data Type: Point Name: Laing O'Rourke Construction Limited Easting: 531421 Northing: 180791	Annual Volume (m <sup>3</sup> ): 100000 Max Daily Volume (m <sup>3</sup> ): 6912 Original Application No: NPS/WR/032399 Original Start Date: 12/12/2019 Expiry Date: 31/12/2022 Issue No: 1 Version Start Date: 12/12/2019 Version End Date: -
-	1438m SE	Status: Historical Licence No: TH/039/0039/156 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: OFFTAKE C - BLACKFRIARS BRIDGE FORESHORE Data Type: Point Name: Laing O'Rourke Construction Limited Easting: 531427 Northing: 180786	Annual Volume (m <sup>3</sup> ): 100000 Max Daily Volume (m <sup>3</sup> ): 6912 Original Application No: NPS/WR/032399 Original Start Date: 12/12/2019 Expiry Date: 31/12/2022 Issue No: 1 Version Start Date: 12/12/2019 Version End Date: -





ID	Location	Details	
-	1438m SE	Status: Historical Licence No: TH/039/0039/156 Details: Hydraulic Testing Direct Source: THAMES GROUNDWATER Point: OFFTAKE C - BLACKFRIARS BRIDGE FORESHORE Data Type: Point Name: Laing O'Rourke Construction Limited Easting: 531427 Northing: 180786	Annual Volume (m <sup>3</sup> ): 100000 Max Daily Volume (m <sup>3</sup> ): 6912 Original Application No: NPS/WR/032399 Original Start Date: 12/12/2019 Expiry Date: 31/12/2022 Issue No: 1 Version Start Date: 12/12/2019 Version End Date: -
-	1443m NW	Status: Active Licence No: TH/039/0039/166 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: SUPERFICIAL DEPOSITS & LONDON CLAY-ST PANCRAS LOW/LEVEL STN Data Type: Point Name: NATIONAL RAIL Easting: 529939 Northing: 183277	Annual Volume (m <sup>3</sup> ): 17520 Max Daily Volume (m <sup>3</sup> ): 48 Original Application No: NPS/NA/001599 Original Start Date: 13/09/2022 Expiry Date: 31/03/2037 Issue No: 1 Version Start Date: 13/09/2022 Version End Date: -
-	1522m SE	Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'B' AT ST. MARTINS LE GRAND, LONDON EC1 Data Type: Point Name: ST MARTINS PROPERTY CORPORATION LTD Easting: 532100 Northing: 181400	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/10/1974 Version End Date: -
-	1567m SE	Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'C' AT ST. MARTINS LE GRAND, LONDON EC1 Data Type: Point Name: ST MARTINS PROPERTY CORPORATION LTD Easting: 532100 Northing: 181300	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/10/1974 Version End Date: -



ID	Location	Details	
-	1589m SE	Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: ST. MARTINS LE GRAND- BOREHOLE B Data Type: Point Name: ST MARTINS PROPERTY CORP. LTD Easting: 532160 Northing: 181370	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/1998 Version End Date: -
-	1592m SE	Status: Historical Licence No: 28/39/39/0229 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GRANGE ST PAUL'S HOTEL- BOREHOLE Data Type: Point Name: GLOBAL GRANGE LIMITED Easting: 531950 Northing: 181030	Annual Volume (m <sup>3</sup> ): 73000 Max Daily Volume (m <sup>3</sup> ): 200 Original Application No: - Original Start Date: 17/01/2007 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 17/01/2007 Version End Date: -
-	1592m SE	Status: Historical Licence No: TH/039/0039/066 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GRANGE ST PAUL'S HOTEL- BOREHOLE Data Type: Point Name: GLOBAL GRANGE LIMITED Easting: 531950 Northing: 181030	Annual Volume (m <sup>3</sup> ): 45625 Max Daily Volume (m <sup>3</sup> ): 125 Original Application No: - Original Start Date: 01/04/2013 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 01/04/2013 Version End Date: -
-	1594m SW	Status: Active Licence No: TH/039/0039/067 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: 6 ST MARTINS PLACE, LONDON, WC2N - BOREHOLE Data Type: Point Name: ST MARTIN-IN-THE FIELDS LIMITED Easting: 530089 Northing: 180562	Annual Volume (m <sup>3</sup> ): 140000 Max Daily Volume (m <sup>3</sup> ): 760 Original Application No: GEN/39/117 Original Start Date: 01/04/2013 Expiry Date: 31/03/2025 Issue No: 2 Version Start Date: 01/04/2013 Version End Date: -



ID	Location	Details	
-	1595m SW	Status: Historical Licence No: 28/39/39/0236 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: 6 ST MARTINS PLACE, LONDON, WC2N - BOREHOLE Data Type: Point Name: ST MARTIN-IN-THE FIELDS LIMITED Easting: 530090 Northing: 180560	Annual Volume (m <sup>3</sup> ): 52000 Max Daily Volume (m <sup>3</sup> ): 1300 Original Application No: - Original Start Date: 24/04/2008 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 24/04/2008 Version End Date: -
-	1620m SE	Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: ST. MARTINS LE GRAND, LONDON- BOREHOLE C Data Type: Point Name: ST MARTINS PROPERTY CORP. LTD Easting: 532160 Northing: 181300	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/1998 Version End Date: -
-	1656m N	Status: Active Licence No: TH/039/0039/057 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT BARNARD PARK Data Type: Point Name: Thames Water Utilities Ltd Easting: 531022 Northing: 183681	Annual Volume (m <sup>3</sup> ): 914544 Max Daily Volume (m <sup>3</sup> ): 3024 Original Application No: NPS/WR/009227 Original Start Date: 01/04/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2013 Version End Date: -
-	1665m N	Status: Historical Licence No: 28/39/39/0207 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BARNARD PARK, ISLINGTON - BOREHOLE Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 531020 Northing: 183690	Annual Volume (m <sup>3</sup> ): 914544 Max Daily Volume (m <sup>3</sup> ): 3024 Original Application No: - Original Start Date: 02/05/2003 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 08/01/2004 Version End Date: -
-	1694m SW	Status: Historical Licence No: 28/39/39/0212 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: THE NATIONAL GALLERY- BOREHOLE Data Type: Point Name: THE NATIONAL GALLERY Easting: 529960 Northing: 180510	Annual Volume (m <sup>3</sup> ): 30558 Max Daily Volume (m <sup>3</sup> ): 83.7 Original Application No: - Original Start Date: 27/10/2004 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -



ID	Location	Details	
-	1694m SW	Status: Historical Licence No: 28/39/39/0212 Details: Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: THE NATIONAL GALLERY- BOREHOLE Data Type: Point Name: THE NATIONAL GALLERY Easting: 529960 Northing: 180510	Annual Volume (m <sup>3</sup> ): 30558 Max Daily Volume (m <sup>3</sup> ): 83.7 Original Application No: - Original Start Date: 27/10/2004 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
-	1724m W	Status: Historical Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'B' AT WALMER HOUSE, 296 REGENT STREET, LONDON W1 Data Type: Point Name: CAPITAL AND COUNTIES PROPERTY COMPANY LIMITED Easting: 529100 Northing: 181400	Annual Volume (m <sup>3</sup> ): 9126 Max Daily Volume (m <sup>3</sup> ): 25 Original Application No: - Original Start Date: 11/10/1971 Expiry Date: - Issue No: 100 Version Start Date: 26/11/1979 Version End Date: -
-	1724m W	Status: Historical Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: WALMER HOUSE, 296 REGENT STREET, LONDON W1-BOREHOLE B Data Type: Point Name: CAPITAL AND COUNTIES PROPERTY COMPANY LIMITED Easting: 529100 Northing: 181400	Annual Volume (m <sup>3</sup> ): 9126 Max Daily Volume (m <sup>3</sup> ): 25 Original Application No: - Original Start Date: 11/10/1971 Expiry Date: - Issue No: 100 Version Start Date: 26/11/1979 Version End Date: -
-	1752m S	Status: Active Licence No: TH/039/0042/008/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: CHALK AT ROYAL NATIONAL THEATRE Data Type: Point Name: The Royal National Theatre Easting: 531025 Northing: 180310	Annual Volume (m <sup>3</sup> ): 43800 Max Daily Volume (m <sup>3</sup> ): 120 Original Application No: NPS/WR/026786 Original Start Date: 01/04/2019 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2019 Version End Date: -



ID	Location	Details	
-	1752m S	Status: Historical Licence No: TH/039/0042/008 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: CHALK AT ROYAL NATIONAL THEATRE Data Type: Point Name: The Royal National Theatre Easting: 531025 Northing: 180310	Annual Volume (m <sup>3</sup> ): 43800 Max Daily Volume (m <sup>3</sup> ): 120 Original Application No: - Original Start Date: 20/10/2015 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 20/10/2015 Version End Date: -
-	1767m S	Status: Historical Licence No: 28/39/42/0069 Details: Non-Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: ROYAL FESTIVAL HALL, BELVEDERE ROAD, SE1 - BOREHOLE Data Type: Point Name: THE SOUTH BANK BOARD LIMITED Easting: 530830 Northing: 180270	Annual Volume (m <sup>3</sup> ): 132000 Max Daily Volume (m <sup>3</sup> ): 825 Original Application No: - Original Start Date: 05/05/2005 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 05/05/2005 Version End Date: -
-	1770m S	Status: Active Licence No: 28/39/42/0069/R02 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: ROYAL FESTIVAL HALL, BELVEDERE ROAD, SE1 - BOREHOLE A Data Type: Point Name: Southbank Centre Limited Easting: 530826 Northing: 180266	Annual Volume (m <sup>3</sup> ): 257000 Max Daily Volume (m <sup>3</sup> ): 1620 Original Application No: NPS/WR/026783 Original Start Date: 01/04/2019 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 01/04/2019 Version End Date: -
-	1770m S	Status: Historical Licence No: 28/39/42/0069 Details: General Use Relating To Secondary Category (High Loss) Direct Source: THAMES GROUNDWATER Point: ROYAL FESTIVAL HALL, BELVEDERE ROAD, SE1 - BOREHOLE A Data Type: Point Name: THE SOUTH BANK BOARD LIMITED Easting: 530826 Northing: 180266	Annual Volume (m <sup>3</sup> ): 257000 Max Daily Volume (m <sup>3</sup> ): 1620 Original Application No: - Original Start Date: 05/05/2005 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 06/07/2007 Version End Date: -



ID	Location	Details	
-	1770m S	Status: Historical Licence No: 28/39/42/0069 Details: Non-Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: ROYAL FESTIVAL HALL, BELVEDERE ROAD, SE1 - BOREHOLE A Data Type: Point Name: THE SOUTH BANK BOARD LIMITED Easting: 530826 Northing: 180266	Annual Volume (m <sup>3</sup> ): 257000 Max Daily Volume (m <sup>3</sup> ): 1620 Original Application No: - Original Start Date: 05/05/2005 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 06/07/2007 Version End Date: -
-	1770m S	Status: Historical Licence No: 28/39/42/0069/R01 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: ROYAL FESTIVAL HALL, BELVEDERE ROAD, SE1 - BOREHOLE A Data Type: Point Name: South Bank Centre Limited Easting: 530826 Northing: 180266	Annual Volume (m <sup>3</sup> ): 257000 Max Daily Volume (m <sup>3</sup> ): 1620 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1781m SE	Status: Active Licence No: TH/039/0039/109 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: 1 NEW CHANGE LONDON - BOREHOLE B Data Type: Point Name: LAND SECURITIES PROPERTIES LIMITED Easting: 532245 Northing: 181121	Annual Volume (m <sup>3</sup> ): 185000 Max Daily Volume (m <sup>3</sup> ): 972 Original Application No: NPS/WR/035949 Original Start Date: 27/08/2015 Expiry Date: 31/03/2025 Issue No: 2 Version Start Date: 03/08/2021 Version End Date: -
-	1781m SE	Status: Historical Licence No: TH/039/0039/008 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'B' - 1 NEW CHANGE LONDON Data Type: Point Name: LAND SECURITIES GROUP PLC Easting: 532245 Northing: 181121	Annual Volume (m <sup>3</sup> ): 185000 Max Daily Volume (m <sup>3</sup> ): 972 Original Application No: - Original Start Date: 22/07/2009 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 31/01/2011 Version End Date: -
-	1781m SE	Status: Historical Licence No: TH/039/0039/008 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: 1 NEW CHANGE LONDON - BOREHOLE B Data Type: Point Name: LAND SECURITIES GROUP PLC Easting: 532245 Northing: 181121	Annual Volume (m <sup>3</sup> ): 185000 Max Daily Volume (m <sup>3</sup> ): 972 Original Application No: - Original Start Date: 22/07/2009 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 31/01/2011 Version End Date: -



ID	Location	Details	
-	1796m SE	Status: Active Licence No: TH/039/0039/109 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: 1 NEW CHANGE LONDON - BOREHOLE A Data Type: Point Name: LAND SECURITIES PROPERTIES LIMITED Easting: 532291 Northing: 181171	Annual Volume (m <sup>3</sup> ): 185000 Max Daily Volume (m <sup>3</sup> ): 972 Original Application No: NPS/WR/035949 Original Start Date: 27/08/2015 Expiry Date: 31/03/2025 Issue No: 2 Version Start Date: 03/08/2021 Version End Date: -
-	1796m SE	Status: Historical Licence No: TH/039/0039/008 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: ONE NEW CHANGE - BOREHOLE A Data Type: Point Name: LAND SECURITIES GROUP PLC Easting: 532291 Northing: 181171	Annual Volume (m <sup>3</sup> ): 185000 Max Daily Volume (m <sup>3</sup> ): 972 Original Application No: - Original Start Date: 22/07/2009 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 22/07/2009 Version End Date: -
-	1796m SE	Status: Historical Licence No: TH/039/0039/008 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'A' - 1 NEW CHANGE LONDON Data Type: Point Name: LAND SECURITIES GROUP PLC Easting: 532291 Northing: 181171	Annual Volume (m <sup>3</sup> ): 185000 Max Daily Volume (m <sup>3</sup> ): 972 Original Application No: - Original Start Date: 22/07/2009 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 31/01/2011 Version End Date: -
-	1796m SE	Status: Historical Licence No: TH/039/0039/008 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: 1 NEW CHANGE LONDON - BOREHOLE A Data Type: Point Name: LAND SECURITIES GROUP PLC Easting: 532291 Northing: 181171	Annual Volume (m <sup>3</sup> ): 185000 Max Daily Volume (m <sup>3</sup> ): 972 Original Application No: - Original Start Date: 22/07/2009 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 31/01/2011 Version End Date: -
-	1826m W	Status: Active Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: WALMER HOUSE, 296 REGENT STREET, LONDON, W1B - BOREHOLE 'A' Data Type: Point Name: Pontsarn Investments Limited Easting: 529010 Northing: 181350	Annual Volume (m <sup>3</sup> ): 9126 Max Daily Volume (m <sup>3</sup> ): 25 Original Application No: NPS/WR/011671 Original Start Date: 11/10/1971 Expiry Date: - Issue No: 102 Version Start Date: 29/11/2012 Version End Date: -



ID	Location	Details	
-	1833m SW	Status: Active Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: WALMER HOUSE, 296 REGENT STREET, LONDON, W1B - BOREHOLE 'B' Data Type: Point Name: Ponsarn Investments Limited Easting: 529010 Northing: 181330	Annual Volume (m <sup>3</sup> ): 9126 Max Daily Volume (m <sup>3</sup> ): 25 Original Application No: NPS/WR/011671 Original Start Date: 11/10/1971 Expiry Date: - Issue No: 102 Version Start Date: 29/11/2012 Version End Date: -
-	1845m S	Status: Historical Licence No: TH/039/0039/127 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: TERTIARY SAND AND CHALK AT VICTORIA EMBANKMENT Data Type: Poly4 Name: FERROVIAL AGROMAN LIMITED Easting: 530379 Northing: 180216	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 29/05/2019 Expiry Date: 30/11/2020 Issue No: 1 Version Start Date: 29/05/2019 Version End Date: -
-	1845m S	Status: Historical Licence No: TH/039/0039/127 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: THAMES GROUNDWATER Point: TERTIARY SAND AND CHALK AT VICTORIA EMBANKMENT Data Type: Poly4 Name: FERROVIAL AGROMAN (UK) LIMITED Easting: 530379 Northing: 180216	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 29/05/2019 Expiry Date: 30/11/2020 Issue No: 1 Version Start Date: 29/05/2019 Version End Date: -
-	1854m SW	Status: Historical Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'A' AT WALMER HOUSE, 296 REGENT STREET, LONDON W1 Data Type: Point Name: CAPITAL AND COUNTIES PROPERTY COMPANY LIMITED Easting: 529000 Northing: 181300	Annual Volume (m <sup>3</sup> ): 9126 Max Daily Volume (m <sup>3</sup> ): 25 Original Application No: - Original Start Date: 11/10/1971 Expiry Date: - Issue No: 100 Version Start Date: 26/11/1979 Version End Date: -



ID	Location	Details	
-	1854m SW	Status: Historical Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: WALMER HOUSE, 296 REGENT STREET, LONDON W1-BOREHOLE A Data Type: Point Name: CAPITAL AND COUNTIES PROPERTY COMPANY LIMITED Easting: 529000 Northing: 181300	Annual Volume (m <sup>3</sup> ): 9126 Max Daily Volume (m <sup>3</sup> ): 25 Original Application No: - Original Start Date: 11/10/1971 Expiry Date: - Issue No: 100 Version Start Date: 26/11/1979 Version End Date: -
-	1860m SE	Status: Historical Licence No: 28/39/42/0004 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: STAMFORD HOUSE, STAMFORD STREET, - BOREHOLE 'A' Data Type: Point Name: J SAINSBURY LTD Easting: 531600 Northing: 180400	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 13/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 19/06/1986 Version End Date: -
-	1860m SE	Status: Historical Licence No: 28/39/42/0004 Details: Process water Direct Source: THAMES GROUNDWATER Point: STAMFORD HOUSE, STAMFORD STREET, - BOREHOLE 'A' Data Type: Point Name: J SAINSBURY LTD Easting: 531600 Northing: 180400	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 13/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 19/06/1986 Version End Date: -
-	1860m SE	Status: Historical Licence No: 28/39/42/0004 Details: Process Water Direct Source: THAMES GROUNDWATER Point: STAMFORD HOUSE, STAMFORD STREET, - BOREHOLE Data Type: Point Name: BEETHAM LANDMARK LONDON LTD Easting: 531600 Northing: 180400	Annual Volume (m <sup>3</sup> ): 47733 Max Daily Volume (m <sup>3</sup> ): 327.32 Original Application No: - Original Start Date: 13/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 10/07/2014 Version End Date: -



ID	Location	Details	
-	1860m SE	Status: Historical Licence No: 28/39/42/0004 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: STAMFORD HOUSE, STAMFORD STREET, - BOREHOLE Data Type: Point Name: BEETHAM LANDMARK LONDON LTD Easting: 531600 Northing: 180400	Annual Volume (m <sup>3</sup> ): 47733 Max Daily Volume (m <sup>3</sup> ): 327.32 Original Application No: - Original Start Date: 13/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 10/07/2014 Version End Date: -
-	1873m W	Status: Active Licence No: TH/039/0039/068 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: 10 WEYMOUTH STREET, RIDGEFORD PROPERTIES Data Type: Point Name: Ridgford Properties Limited Easting: 528830 Northing: 181900	Annual Volume (m <sup>3</sup> ): 50000 Max Daily Volume (m <sup>3</sup> ): 400 Original Application No: NPSWR009221 Original Start Date: 01/04/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2013 Version End Date: -
-	1873m W	Status: Historical Licence No: TH/039/0039/010 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: 10 WEYMOUTH STREET, RIDGEFORD PROPERTIES Data Type: Point Name: Ridgford Properties Limited Easting: 528830 Northing: 181900	Annual Volume (m <sup>3</sup> ): 50000 Max Daily Volume (m <sup>3</sup> ): 400 Original Application No: - Original Start Date: 13/08/2009 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 13/08/2009 Version End Date: -
-	1879m S	Status: Active Licence No: 28/39/42/0069/R02 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: ROYAL FESTIVAL HALL, BELVEDERE ROAD SE1 - BOREHOLE B Data Type: Point Name: Southbank Centre Limited Easting: 530737 Northing: 180153	Annual Volume (m <sup>3</sup> ): 257000 Max Daily Volume (m <sup>3</sup> ): 1620 Original Application No: NPS/WR/026783 Original Start Date: 01/04/2019 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 01/04/2019 Version End Date: -



ID	Location	Details	
-	1879m S	Status: Historical Licence No: 28/39/42/0069 Details: General Use Relating To Secondary Category (High Loss) Direct Source: THAMES GROUNDWATER Point: ROYAL FESTIVAL HALL, BELVEDERE ROAD SE1 - BOREHOLE B Data Type: Point Name: THE SOUTH BANK BOARD LIMITED Easting: 530737 Northing: 180153	Annual Volume (m <sup>3</sup> ): 257000 Max Daily Volume (m <sup>3</sup> ): 1620 Original Application No: - Original Start Date: 05/05/2005 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 06/07/2007 Version End Date: -
-	1879m S	Status: Historical Licence No: 28/39/42/0069 Details: Non-Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: ROYAL FESTIVAL HALL, BELVEDERE ROAD SE1 - BOREHOLE B Data Type: Point Name: THE SOUTH BANK BOARD LIMITED Easting: 530737 Northing: 180153	Annual Volume (m <sup>3</sup> ): 257000 Max Daily Volume (m <sup>3</sup> ): 1620 Original Application No: - Original Start Date: 05/05/2005 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 06/07/2007 Version End Date: -
-	1879m S	Status: Historical Licence No: 28/39/42/0069/R01 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: ROYAL FESTIVAL HALL, BELVEDERE ROAD SE1 - BOREHOLE B Data Type: Point Name: South Bank Centre Limited Easting: 530737 Northing: 180153	Annual Volume (m <sup>3</sup> ): 257000 Max Daily Volume (m <sup>3</sup> ): 1620 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1937m SE	Status: Historical Licence No: TH/039/0042/006 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE B AT TATE MODERN, BANKSIDE, LONDON Data Type: Point Name: The Board of Trustees of the Tate Gallery Easting: 531872 Northing: 180482	Annual Volume (m <sup>3</sup> ): 300000 Max Daily Volume (m <sup>3</sup> ): 2160 Original Application No: - Original Start Date: 06/06/2011 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 06/06/2011 Version End Date: -

ID	Location	Details	
-	1937m SE	Status: Historical Licence No: TH/039/0042/006 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: TATE MODERN, BANKSIDE, LONDON - BOREHOLE B Data Type: Point Name: The Board of Trustees of the Tate Gallery Easting: 531872 Northing: 180482	Annual Volume (m <sup>3</sup> ): 300000 Max Daily Volume (m <sup>3</sup> ): 2160 Original Application No: - Original Start Date: 06/06/2011 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 10/07/2014 Version End Date: -
-	1946m SE	Status: Historical Licence No: TH/039/0042/006 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE C AT TATE MODERN, BANKSIDE, LONDON Data Type: Point Name: The Board of Trustees of the Tate Gallery Easting: 531849 Northing: 180454	Annual Volume (m <sup>3</sup> ): 300000 Max Daily Volume (m <sup>3</sup> ): 2160 Original Application No: - Original Start Date: 06/06/2011 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 06/06/2011 Version End Date: -
-	1946m SE	Status: Historical Licence No: TH/039/0042/006 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: TATE MODERN, BANKSIDE, LONDON - BOREHOLE C Data Type: Point Name: The Board of Trustees of the Tate Gallery Easting: 531849 Northing: 180454	Annual Volume (m <sup>3</sup> ): 300000 Max Daily Volume (m <sup>3</sup> ): 2160 Original Application No: - Original Start Date: 06/06/2011 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 10/07/2014 Version End Date: -
-	1949m SE	Status: Historical Licence No: 28/39/39/0071 Details: Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT BEAVER HOUSE, GREAT TRINITY STREET, LONDON EC4 Data Type: Point Name: DTZ DEBENHAM TIE LEUNG LIMITED Easting: 532300 Northing: 180900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/01/2000 Version End Date: -



ID	Location	Details	
-	1949m SE	Status: Historical Licence No: 28/39/39/0071 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT BEAVER HOUSE, GREAT TRINITY STREET, LONDON EC4 Data Type: Point Name: DTZ DEBENHAM TIE LEUNG LIMITED Easting: 532300 Northing: 180900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/01/2000 Version End Date: -
-	1951m SE	Status: Historical Licence No: TH/039/0042/006 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: BOREHOLE A AT TATE MODERN, BANKSIDE Data Type: Point Name: The Board of Trustees of the Tate Gallery Easting: 531874 Northing: 180466	Annual Volume (m <sup>3</sup> ): 300000 Max Daily Volume (m <sup>3</sup> ): 2160 Original Application No: - Original Start Date: 06/06/2011 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 06/06/2011 Version End Date: -
-	1951m SE	Status: Historical Licence No: TH/039/0042/006 Details: Heat Pump Direct Source: THAMES GROUNDWATER Point: TATE MODERN, BANKSIDE, LONDON - BOREHOLE A Data Type: Point Name: The Board of Trustees of the Tate Gallery Easting: 531874 Northing: 180466	Annual Volume (m <sup>3</sup> ): 300000 Max Daily Volume (m <sup>3</sup> ): 2160 Original Application No: - Original Start Date: 06/06/2011 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 10/07/2014 Version End Date: -

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

## 5.7 Surface water abstractions

### Records within 2000m

4

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 53 >](#)



ID	Location	Details	
-	1519m N	Status: Historical Licence No: 28/39/39/0164 Details: Non-Evaporative Cooling Direct Source: THAMES SURFACE WATER - NON TIDAL Point: MAIDEN LANE BRIDGE, LONDON, NW1 - REGENTS CANAL Data Type: Point Name: Canal and River Trust Easting: 530310 Northing: 183520	Annual Volume (m <sup>3</sup> ): 7010000 Max Daily Volume (m <sup>3</sup> ): 19520 Original Application No: - Original Start Date: 18/07/1980 Expiry Date: - Issue No: 101 Version Start Date: 17/12/2007 Version End Date: -
-	1681m NE	Status: Historical Licence No: 28/39/39/0164 Details: Non-Evaporative Cooling Direct Source: THAMES SURFACE WATER - NON TIDAL Point: CITY ROAD BASIN, WHARF ROAD, N1 - REGENTS CANAL Data Type: Point Name: Canal and River Trust Easting: 532100 Northing: 183000	Annual Volume (m <sup>3</sup> ): 7010000 Max Daily Volume (m <sup>3</sup> ): 19520 Original Application No: - Original Start Date: 18/07/1980 Expiry Date: - Issue No: 101 Version Start Date: 17/12/2007 Version End Date: -
-	1817m NW	Status: Historical Licence No: 28/39/39/0172 Details: Make-Up or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: CAMLEY STREET NATURE PARK, LONDON Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 529750 Northing: 183600	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 18/09/1991 Version End Date: -
-	1817m NW	Status: Historical Licence No: 28/39/39/0172 Details: Make-Up or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: GRAND UNION CANAL AT CAMLEY STREET NATURE PARK, LONDON Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 529750 Northing: 183600	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 18/09/1991 Expiry Date: - Issue No: 100 Version Start Date: 18/09/1991 Version End Date: -

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



## 5.8 Potable abstractions

### Records within 2000m

**37**

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 53 >](#)

ID	Location	Details	
-	895m NE	Status: Active Licence No: TH/039/0039/059 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT NEW RIVER HEAD Data Type: Point Name: Thames Water Utilities Ltd Easting: 531239 Northing: 182777	Annual Volume (m <sup>3</sup> ): 1261440 Max Daily Volume (m <sup>3</sup> ): 3456 Original Application No: NPS/WR/009226 Original Start Date: 01/04/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2013 Version End Date: -
-	907m NE	Status: Historical Licence No: 28/39/39/0201 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: NEW RIVER HEAD, FINSBURY - BOREHOLE Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 531280 Northing: 182760	Annual Volume (m <sup>3</sup> ): 1261440 Max Daily Volume (m <sup>3</sup> ): 3456 Original Application No: - Original Start Date: 08/01/2004 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 08/01/2004 Version End Date: -
-	939m E	Status: Historical Licence No: 28/39/39/0206 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: 86-88 CLERKENWELL ROAD, LONDON-BOREHOLE A Data Type: Point Name: Zorca Hospitality Limited Easting: 531650 Northing: 182150	Annual Volume (m <sup>3</sup> ): 25404 Max Daily Volume (m <sup>3</sup> ): 125 Original Application No: - Original Start Date: 04/07/2003 Expiry Date: 31/03/2025 Issue No: 5 Version Start Date: 02/03/2021 Version End Date: -



ID	Location	Details	
-	940m E	Status: Active Licence No: 28/39/39/0206 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: 86-88 CLERKENWELL ROAD, LONDON-BOREHOLE A Data Type: Point Name: Zorca Hospitality Limited Easting: 531652 Northing: 182133	Annual Volume (m <sup>3</sup> ): 25404 Max Daily Volume (m <sup>3</sup> ): 125 Original Application No: NPS/WR/035073 Original Start Date: 04/07/2003 Expiry Date: 31/03/2025 Issue No: 5 Version Start Date: 02/03/2021 Version End Date: -
-	1103m SE	Status: Historical Licence No: 28/39/39/0077 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT 37 FLEET STREET, LONDON EC4 Data Type: Point Name: C HOARE & CO Easting: 531300 Northing: 181100	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/06/1968 Version End Date: -
-	1108m S	Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GLOBE HOUSE, VICTORIA EMBANKMENT-BOREHOLE C Data Type: Point Name: COMMERZ GRUNDBESITZ INVEST. MBH Easting: 531050 Northing: 180980	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 10/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 28/03/2003 Version End Date: -
-	1111m S	Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GLOBE HOUSE, VICTORIA EMBANKMENT-BOREHOLE A Data Type: Point Name: COMMERZ GRUNDBESITZ INVEST. MBH Easting: 531060 Northing: 180980	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 10/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 28/03/2003 Version End Date: -





ID	Location	Details	
-	1111m S	Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GLOBE HOUSE, VICTORIA EMBANKMENT-BOREHOLE B Data Type: Point Name: COMMERZ GRUNDBESITZ INVEST. MBH Easting: 531030 Northing: 180970	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 10/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 28/03/2003 Version End Date: -
-	1115m NE	Status: Active Licence No: TH/039/0039/060 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT SADDLERS WELLS Data Type: Point Name: Thames Water Utilities Ltd Easting: 531452 Northing: 182887	Annual Volume (m <sup>3</sup> ): 473040 Max Daily Volume (m <sup>3</sup> ): 1296 Original Application No: NPS/WR/009228 Original Start Date: 01/04/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2013 Version End Date: -
-	1123m NE	Status: Historical Licence No: 28/39/39/0188 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT SADLERS WELLS THEATRE, LONDON Data Type: Point Name: SADLERS WELLS TRUST LTD Easting: 531450 Northing: 182900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 29/09/1998 Version End Date: -
-	1123m NE	Status: Historical Licence No: 28/39/39/0188 Details: Water Bottling Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT SADLERS WELLS THEATRE, LONDON Data Type: Point Name: SADLERS WELLS TRUST LTD Easting: 531450 Northing: 182900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 29/09/1998 Version End Date: -



ID	Location	Details	
-	1123m NE	Status: Historical Licence No: 28/39/39/0188 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT SADLER'S WELLS THEATRE, LONDON Data Type: Point Name: SADLER'S WELLS TRUST LTD Easting: 531450 Northing: 182900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 29/09/1998 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: 18/09/2001 Version End Date: -
-	1123m NE	Status: Historical Licence No: 28/39/39/0188 Details: Water Bottling Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT SADLER'S WELLS THEATRE, LONDON Data Type: Point Name: SADLER'S WELLS TRUST LTD Easting: 531450 Northing: 182900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 29/09/1998 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: 18/09/2001 Version End Date: -
-	1123m NE	Status: Historical Licence No: 28/39/39/0208 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT SADLER'S WELLS THEATRE, LONDON Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 531450 Northing: 182900	Annual Volume (m <sup>3</sup> ): 473040 Max Daily Volume (m <sup>3</sup> ): 1296 Original Application No: - Original Start Date: 13/12/2004 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 13/12/2004 Version End Date: -
-	1123m NE	Status: Historical Licence No: 28/39/39/0208 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: SADLER'S WELLS THEATRE, LONDON Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 531450 Northing: 182900	Annual Volume (m <sup>3</sup> ): 473040 Max Daily Volume (m <sup>3</sup> ): 1296 Original Application No: - Original Start Date: 13/12/2004 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 13/12/2004 Version End Date: -



ID	Location	Details	
-	1267m S	Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'A' AT GLOBE HOUSE, TEMPLE PLACE, LONDON Data Type: Point Name: HAMMERSON UK PROPERTIES PLC Easting: 531000 Northing: 180800	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 10/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1995 Version End Date: -
-	1267m S	Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'B' AT GLOBE HOUSE, TEMPLE PLACE, LONDON Data Type: Point Name: HAMMERSON UK PROPERTIES PLC Easting: 531000 Northing: 180800	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 10/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1995 Version End Date: -
-	1267m S	Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'C' AT GLOBE HOUSE, TEMPLE PLACE, LONDON Data Type: Point Name: HAMMERSON UK PROPERTIES PLC Easting: 531000 Northing: 180800	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 10/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1995 Version End Date: -
-	1380m SE	Status: Historical Licence No: 28/39/39/0057 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: TWO BOREHOLES AT UNILEVER HOUSE, BLACKFRIARS, LONDON EC4 Data Type: Point Name: UNILEVER LTD Easting: 531500 Northing: 180900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 09/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 09/05/1966 Version End Date: -



ID	Location	Details	
-	1522m SE	Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'B' AT ST. MARTINS LE GRAND, LONDON EC1 Data Type: Point Name: ST MARTINS PROPERTY CORPORATION LTD Easting: 532100 Northing: 181400	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/10/1974 Version End Date: -
-	1567m SE	Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'C' AT ST. MARTINS LE GRAND, LONDON EC1 Data Type: Point Name: ST MARTINS PROPERTY CORPORATION LTD Easting: 532100 Northing: 181300	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/10/1974 Version End Date: -
-	1589m SE	Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: ST. MARTINS LE GRAND- BOREHOLE B Data Type: Point Name: ST MARTINS PROPERTY CORP. LTD Easting: 532160 Northing: 181370	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/1998 Version End Date: -
-	1592m SE	Status: Historical Licence No: 28/39/39/0229 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GRANGE ST PAUL'S HOTEL- BOREHOLE Data Type: Point Name: GLOBAL GRANGE LIMITED Easting: 531950 Northing: 181030	Annual Volume (m <sup>3</sup> ): 73000 Max Daily Volume (m <sup>3</sup> ): 200 Original Application No: - Original Start Date: 17/01/2007 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 17/01/2007 Version End Date: -

ID	Location	Details	
-	1592m SE	Status: Historical Licence No: TH/039/0039/066 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: GRANGE ST PAUL'S HOTEL- BOREHOLE Data Type: Point Name: GLOBAL GRANGE LIMITED Easting: 531950 Northing: 181030	Annual Volume (m <sup>3</sup> ): 45625 Max Daily Volume (m <sup>3</sup> ): 125 Original Application No: - Original Start Date: 01/04/2013 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 01/04/2013 Version End Date: -
-	1620m SE	Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: ST. MARTINS LE GRAND, LONDON- BOREHOLE C Data Type: Point Name: ST MARTINS PROPERTY CORP. LTD Easting: 532160 Northing: 181300	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 05/09/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/1998 Version End Date: -
-	1656m N	Status: Active Licence No: TH/039/0039/057 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT BARNARD PARK Data Type: Point Name: Thames Water Utilities Ltd Easting: 531022 Northing: 183681	Annual Volume (m <sup>3</sup> ): 914544 Max Daily Volume (m <sup>3</sup> ): 3024 Original Application No: NPS/WR/009227 Original Start Date: 01/04/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2013 Version End Date: -
-	1665m N	Status: Historical Licence No: 28/39/39/0207 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: BARNARD PARK, ISLINGTON - BOREHOLE Data Type: Point Name: THAMES WATER UTILITIES LTD Easting: 531020 Northing: 183690	Annual Volume (m <sup>3</sup> ): 914544 Max Daily Volume (m <sup>3</sup> ): 3024 Original Application No: - Original Start Date: 02/05/2003 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 08/01/2004 Version End Date: -
-	1694m SW	Status: Historical Licence No: 28/39/39/0212 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: THE NATIONAL GALLERY- BOREHOLE Data Type: Point Name: THE NATIONAL GALLERY Easting: 529960 Northing: 180510	Annual Volume (m <sup>3</sup> ): 30558 Max Daily Volume (m <sup>3</sup> ): 83.7 Original Application No: - Original Start Date: 27/10/2004 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -



ID	Location	Details	
-	1724m W	Status: Historical Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'B' AT WALMER HOUSE, 296 REGENT STREET, LONDON W1 Data Type: Point Name: CAPITAL AND COUNTIES PROPERTY COMPANY LIMITED Easting: 529100 Northing: 181400	Annual Volume (m <sup>3</sup> ): 9126 Max Daily Volume (m <sup>3</sup> ): 25 Original Application No: - Original Start Date: 11/10/1971 Expiry Date: - Issue No: 100 Version Start Date: 26/11/1979 Version End Date: -
-	1724m W	Status: Historical Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: WALMER HOUSE, 296 REGENT STREET, LONDON W1-BOREHOLE B Data Type: Point Name: CAPITAL AND COUNTIES PROPERTY COMPANY LIMITED Easting: 529100 Northing: 181400	Annual Volume (m <sup>3</sup> ): 9126 Max Daily Volume (m <sup>3</sup> ): 25 Original Application No: - Original Start Date: 11/10/1971 Expiry Date: - Issue No: 100 Version Start Date: 26/11/1979 Version End Date: -
-	1826m W	Status: Active Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: WALMER HOUSE, 296 REGENT STREET, LONDON, W1B - BOREHOLE 'A' Data Type: Point Name: Ponsarn Investments Limited Easting: 529010 Northing: 181350	Annual Volume (m <sup>3</sup> ): 9126 Max Daily Volume (m <sup>3</sup> ): 25 Original Application No: NPS/WR/011671 Original Start Date: 11/10/1971 Expiry Date: - Issue No: 102 Version Start Date: 29/11/2012 Version End Date: -
-	1833m SW	Status: Active Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: WALMER HOUSE, 296 REGENT STREET, LONDON, W1B - BOREHOLE 'B' Data Type: Point Name: Ponsarn Investments Limited Easting: 529010 Northing: 181330	Annual Volume (m <sup>3</sup> ): 9126 Max Daily Volume (m <sup>3</sup> ): 25 Original Application No: NPS/WR/011671 Original Start Date: 11/10/1971 Expiry Date: - Issue No: 102 Version Start Date: 29/11/2012 Version End Date: -



ID	Location	Details	
-	1854m SW	Status: Historical Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'A' AT WALMER HOUSE, 296 REGENT STREET, LONDON W1 Data Type: Point Name: CAPITAL AND COUNTIES PROPERTY COMPANY LIMITED Easting: 529000 Northing: 181300	Annual Volume (m <sup>3</sup> ): 9126 Max Daily Volume (m <sup>3</sup> ): 25 Original Application No: - Original Start Date: 11/10/1971 Expiry Date: - Issue No: 100 Version Start Date: 26/11/1979 Version End Date: -
-	1854m SW	Status: Historical Licence No: 28/39/39/0138 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: WALMER HOUSE, 296 REGENT STREET, LONDON W1-BOREHOLE A Data Type: Point Name: CAPITAL AND COUNTIES PROPERTY COMPANY LIMITED Easting: 529000 Northing: 181300	Annual Volume (m <sup>3</sup> ): 9126 Max Daily Volume (m <sup>3</sup> ): 25 Original Application No: - Original Start Date: 11/10/1971 Expiry Date: - Issue No: 100 Version Start Date: 26/11/1979 Version End Date: -
-	1860m SE	Status: Historical Licence No: 28/39/42/0004 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: STAMFORD HOUSE, STAMFORD STREET, - BOREHOLE 'A' Data Type: Point Name: J SAINSBURY LTD Easting: 531600 Northing: 180400	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 13/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 19/06/1986 Version End Date: -
-	1860m SE	Status: Historical Licence No: 28/39/42/0004 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: STAMFORD HOUSE, STAMFORD STREET, - BOREHOLE Data Type: Point Name: BEETHAM LANDMARK LONDON LTD Easting: 531600 Northing: 180400	Annual Volume (m <sup>3</sup> ): 47733 Max Daily Volume (m <sup>3</sup> ): 327.32 Original Application No: - Original Start Date: 13/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 10/07/2014 Version End Date: -



ID	Location	Details	
-	1949m SE	Status: Historical Licence No: 28/39/39/0071 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT BEAVER HOUSE, GREAT TRINITY STREET, LONDON EC4 Data Type: Point Name: DTZ DEBENHAM TIE LEUNG LIMITED Easting: 532300 Northing: 180900	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/01/2000 Version End Date: -

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

## 5.9 Source Protection Zones

<b>Records within 500m</b>	<b>0</b>
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

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

## 5.10 Source Protection Zones (confined aquifer)

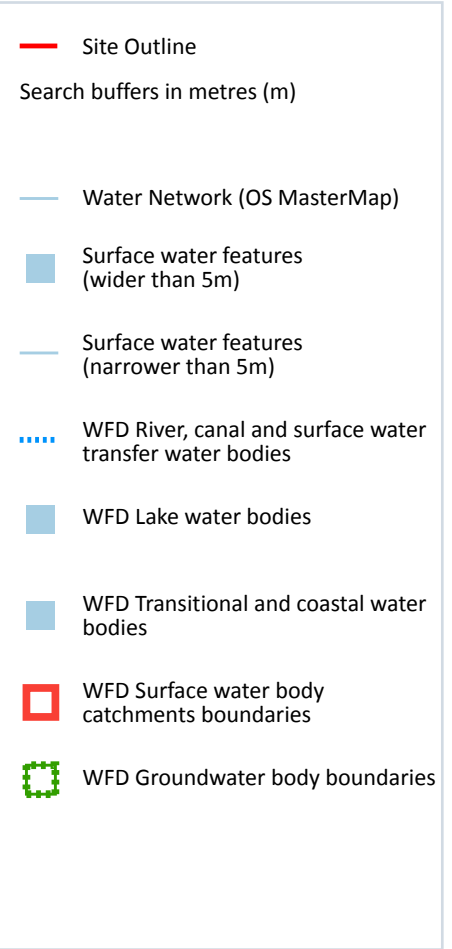
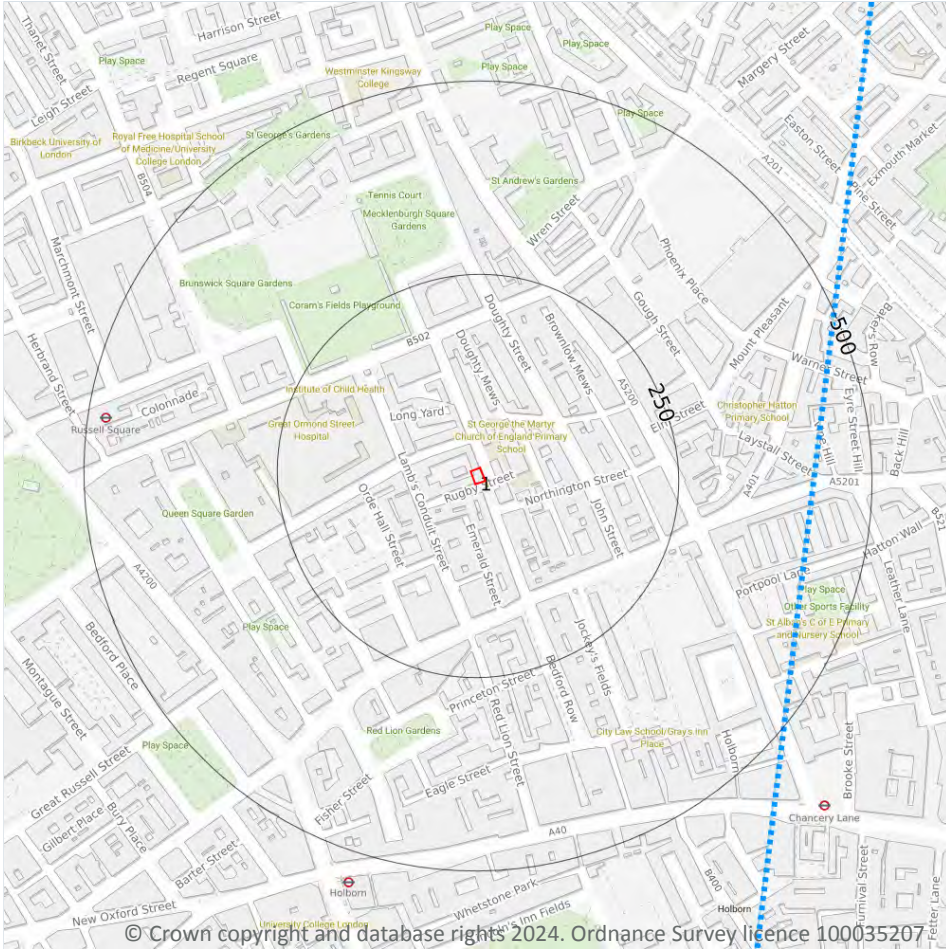
<b>Records within 500m</b>	<b>0</b>
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Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

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



## 6 Hydrology



### 6.1 Water Network (OS MasterMap)

Records within 250m

0

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

*This data is sourced from the Ordnance Survey.*

### 6.2 Surface water features

Records within 250m

0

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

*This data is sourced from the Ordnance Survey.*

### 6.3 WFD Surface water body catchments

<b>Records on site</b>	<b>1</b>
------------------------	----------

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

Features are displayed on the Hydrology map on [page 92 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	Coastal Catchment	Not part of a river WB catchment	128	Land area part of London Management Catchment draining to the Tidal Thames	London

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

### 6.4 WFD Surface water bodies

<b>Records identified</b>	<b>0</b>
---------------------------	----------

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

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

### 6.5 WFD Groundwater bodies

<b>Records on site</b>	<b>0</b>
------------------------	----------

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

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



## 7 River and coastal flooding

### 7.1 Risk of flooding from rivers and the sea

Records within 50m

0

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

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

### 7.2 Historical Flood Events

Records within 250m

0

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

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

### 7.3 Flood Defences

Records within 250m

0

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

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



## 7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

## 7.5 Flood Storage Areas

Records within 250m

0

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

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



## River and coastal flooding - Flood Zones

### 7.6 Flood Zone 2

Records within 50m

0

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

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

### 7.7 Flood Zone 3

Records within 50m

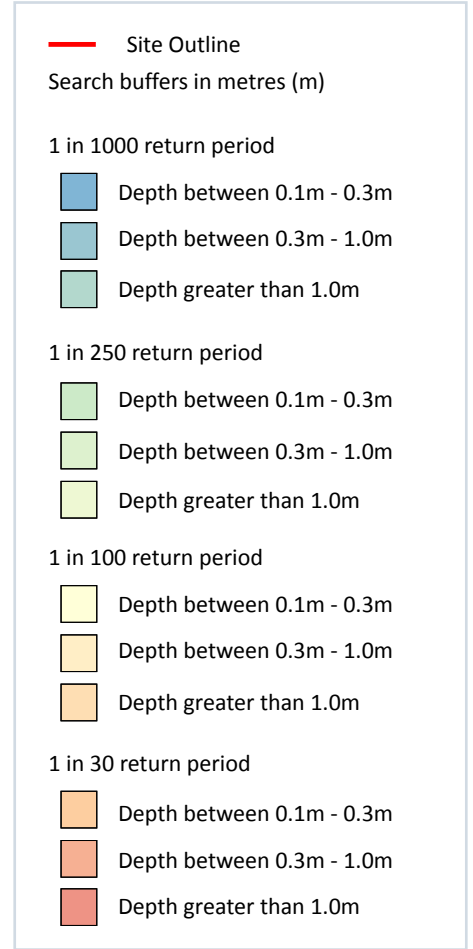
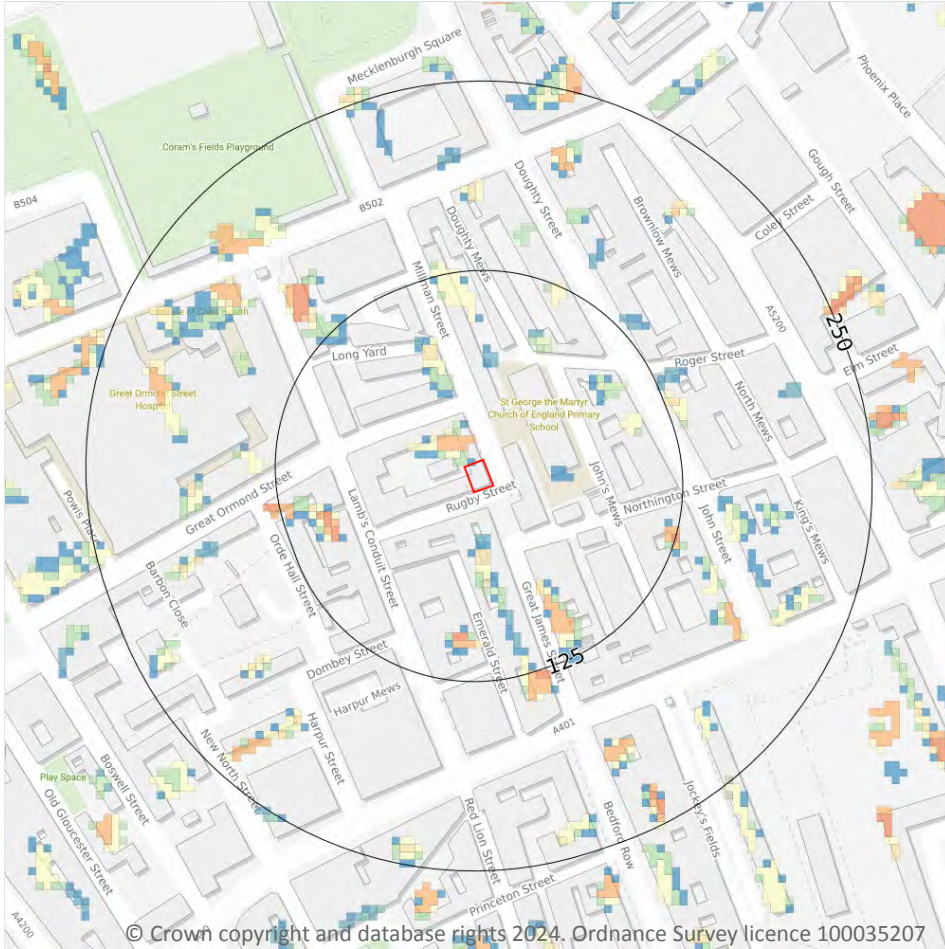
0

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

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



## 8 Surface water flooding



### 8.1 Surface water flooding

Highest risk on site

1 in 250 year, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.1m - 0.3m

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

Features are displayed on the Surface water flooding map on [page 97 >](#)

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

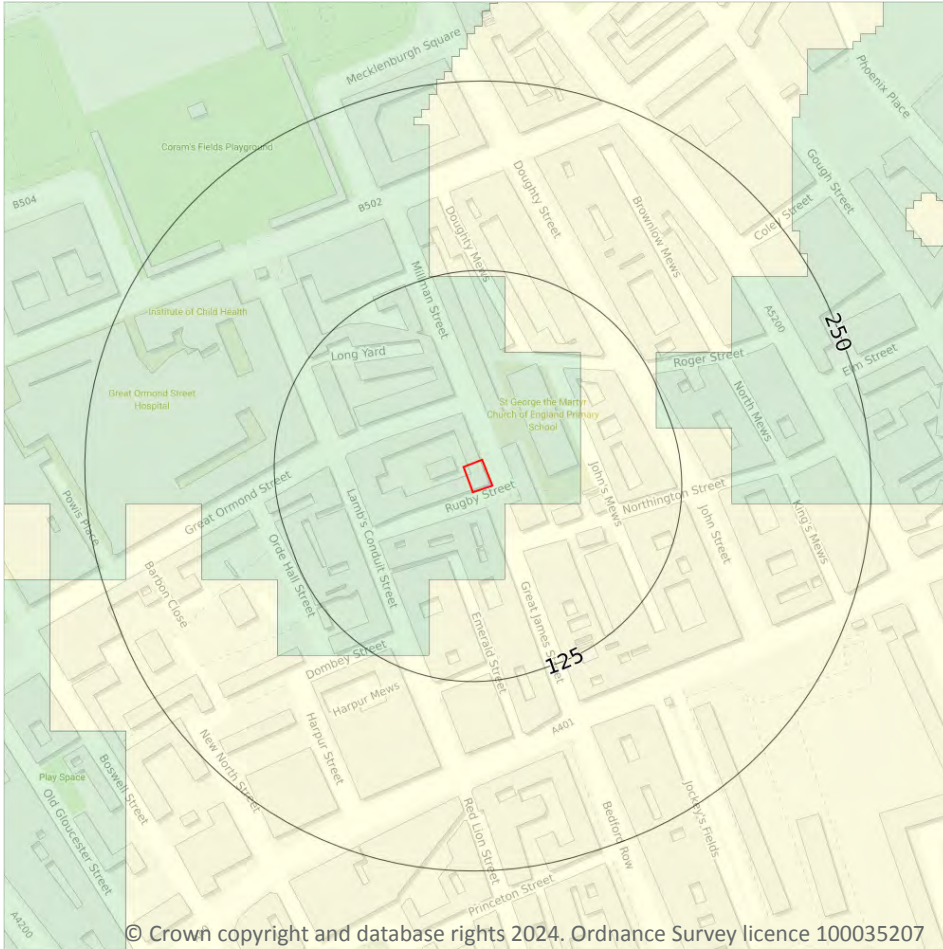
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Negligible
1 in 30 year	Negligible

*This data is sourced from Ambiental Risk Analytics.*



## 9 Groundwater flooding



### 9.1 Groundwater flooding

**Highest risk on site**

**Low**

**Highest risk within 50m**

**Moderate**

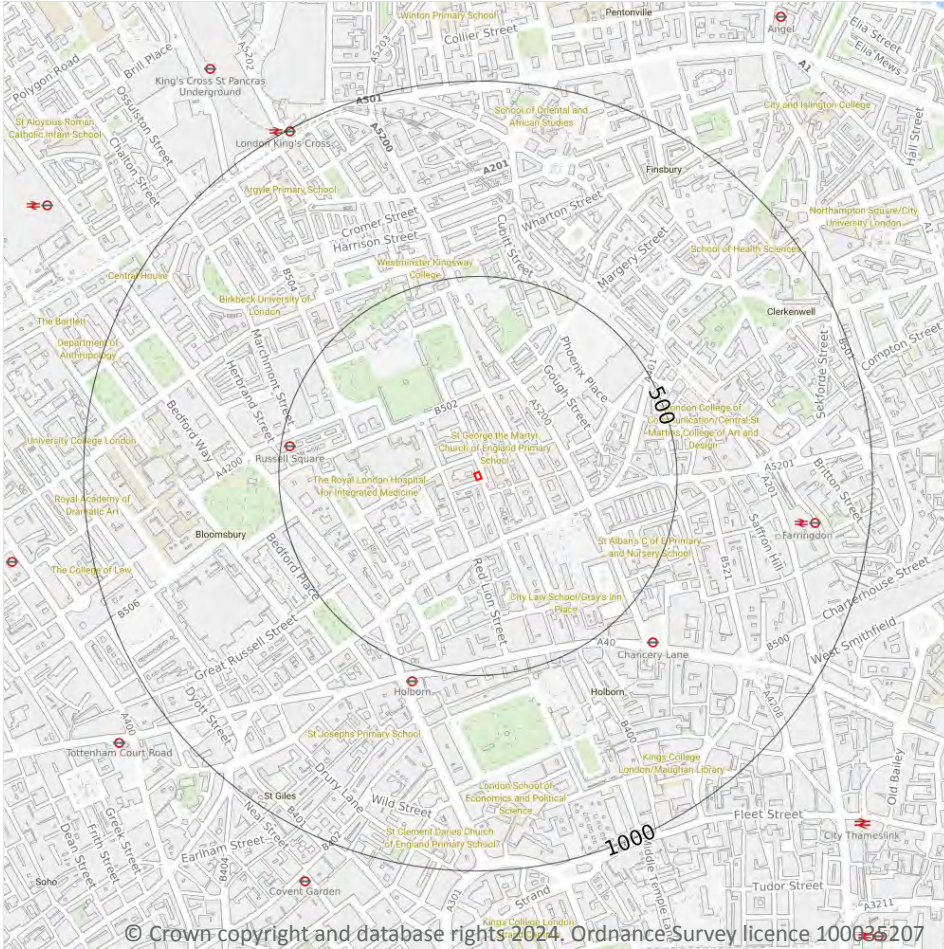
Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks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

Features are displayed on the Groundwater flooding map on [page 99](#) >

*This data is sourced from Ambiental Risk Analytics.*



## 10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)

### 10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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



## 10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

## 10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

## 10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

## 10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



## 10.6 Local Nature Reserves (LNR)

Records within 2000m

1

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

Features are displayed on the Environmental designations map on [page 100 >](#)

ID	Location	Name	Data source
-	1480m NW	Camley Street Nature Park	Natural England

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

## 10.7 Designated Ancient Woodland

Records within 2000m

0

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

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

## 10.8 Biosphere Reserves

Records within 2000m

0

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

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

## 10.9 Forest Parks

Records within 2000m

0

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

*This data is sourced from the Forestry Commission.*



## 10.10 Marine Conservation Zones

Records within 2000m

0

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

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

## 10.11 Green Belt

Records within 2000m

0

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

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

## 10.12 Proposed Ramsar sites

Records within 2000m

0

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

*This data is sourced from Natural England.*

## 10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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

## 10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

*This data is sourced from Natural England.*



## 10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

*This data is sourced from Natural England.*

## 10.16 Nitrate Vulnerable Zones

Records within 2000m

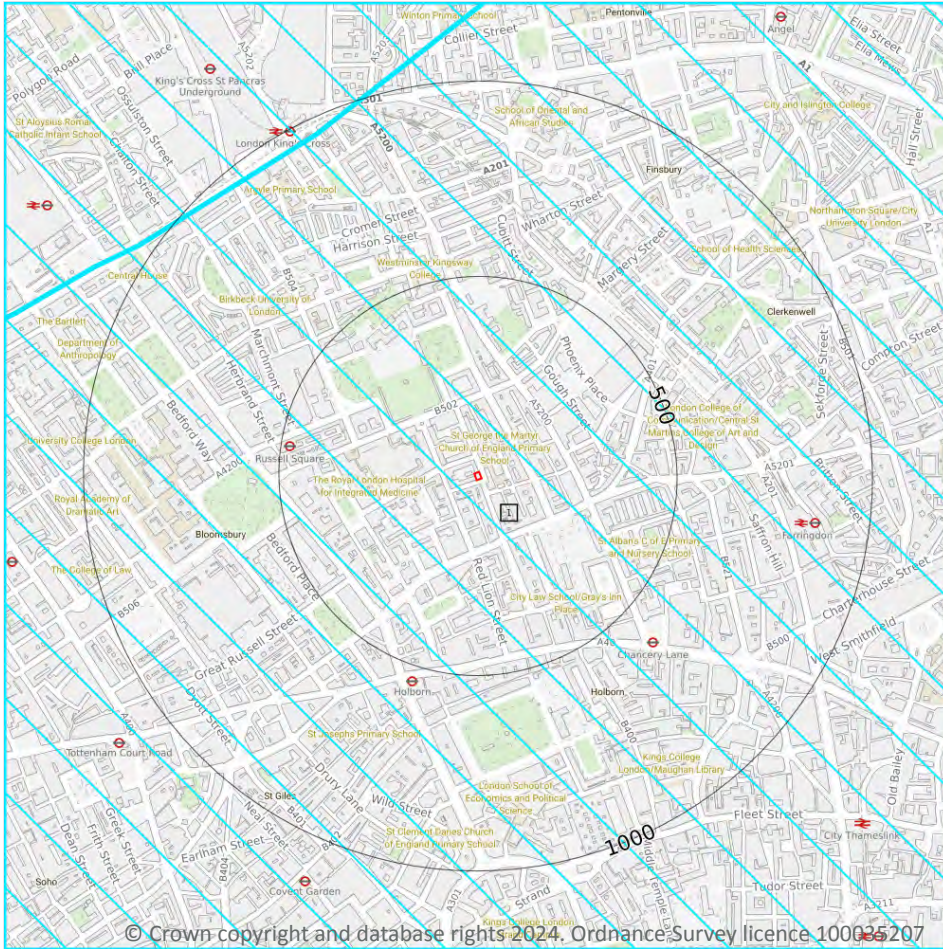
0

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

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



## SSSI Impact Zones and Units



### 10.17 SSSI Impact Risk Zones

#### Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on [page 105 >](#)

ID	Location	Type of developments requiring consultation
1	On site	<p><b>Infrastructure - Airports, helipads and other aviation proposals.</b></p> <p><b>Air pollution - Livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 4000m<sup>2</sup>.</b></p> <p><b>Combustion - General combustion processes &gt;50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</b></p>



*This data is sourced from Natural England.*

## 10.18 SSSI Units

**Records within 2000m**

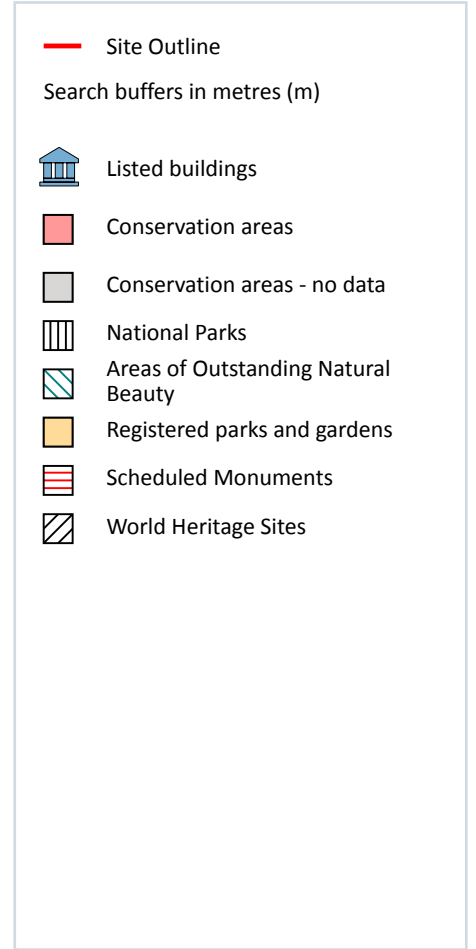
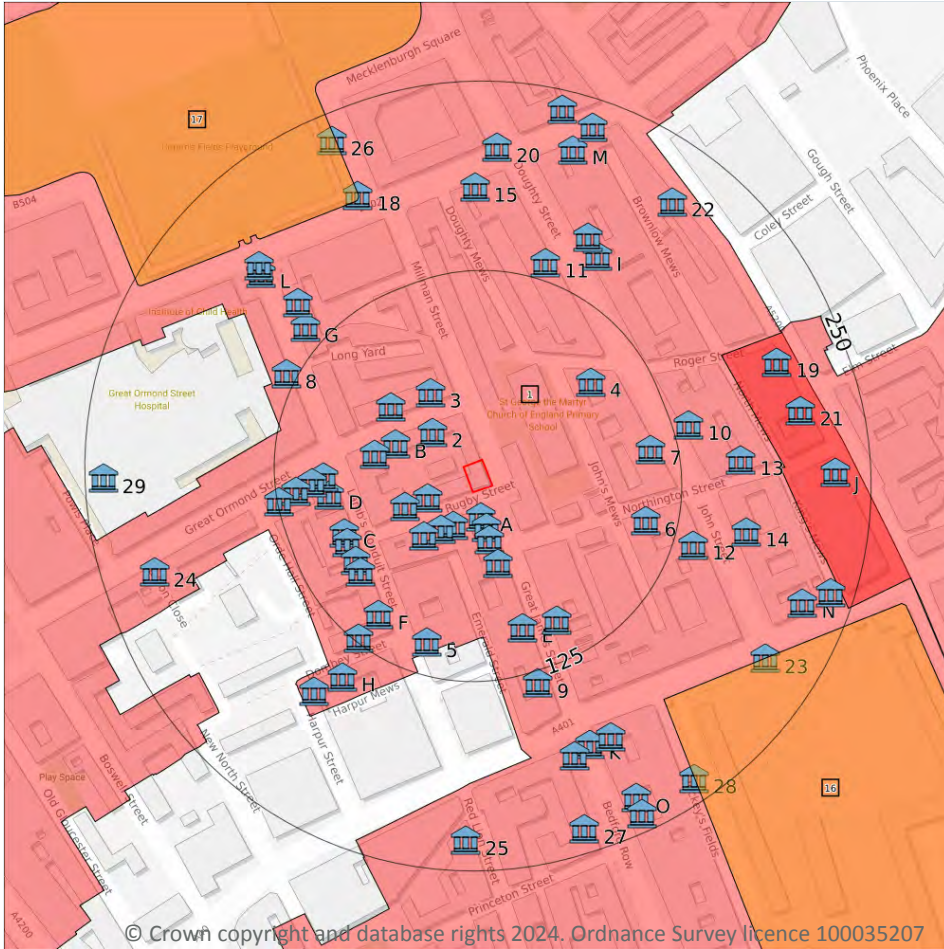
**0**

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

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



## 11 Visual and cultural designations



### 11.1 World Heritage Sites

Records within 250m

0

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

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



## 11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

## 11.3 National Parks

Records within 250m

0

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

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

## 11.4 Listed Buildings

Records within 250m

70

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

Features are displayed on the Visual and cultural designations map on [page 107 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
A	17m S	Rugby Public House	II	1271397	14/05/1974
A	25m S	Number 20 And Attached Railings	II	1113198	14/04/1974
A	25m SW	7, Rugby Street	II	1271398	19/02/1980
A	29m SW	Numbers 10-16 And Attached Railings	II	1246366	24/10/1951
2	31m NW	Numbers 1 To 7 And Attached Railings And Lamp Holder	II*	1322066	24/10/1951
A	32m SW	9, Rugby Street	II	1271400	19/02/1980



ID	Location	Name	Grade	Reference Number	Listed date
A	33m S	Numbers 21 And 22 And Attached Railings	II	1113200	14/05/1974
A	43m SW	13 Rugby Street	II	1246368	14/05/1974
A	46m SW	Number 18 And Attached Railings	II	1246371	14/05/1974
B	48m W	Numbers 9 To 15 And Attached Railings	II	1113205	24/10/1951
A	50m S	Numbers 23, 24 And 25 And Attached Railings	II	1113201	24/10/1951
3	54m NW	Number 2 And Attached Railings	II	1322085	14/05/1974
B	60m W	Number 17 And Attached Railings	II	1113206	14/05/1974
B	62m NW	Numbers 4 To 16 And Attached Railings	II*	1322086	24/10/1951
4	88m NE	No. 21 John Street, The Duke Of York Public House On Roger Street, And Nos. 1-4 Mytre Court On John Mews	II	1393968	17/09/2010
C	89m SW	51, Lambs Conduit Street	II	1379272	14/05/1974
C	89m SW	49, Lambs Conduit Street	II*	1379271	14/05/1974
C	90m SW	45, Lambs Conduit Street	II	1379270	14/05/1974
D	91m W	59, Lambs Conduit Street	II	1379273	07/01/1987
C	91m SW	Number 43 And Attached Railings	II	1379269	14/05/1974
D	93m W	The Perseverance Public House	II	1379274	14/05/1974
E	95m S	Numbers 26 To 37 And 39 To 40 And Attached Railings	II*	1113203	24/10/1957
E	98m SE	Number 3 To 16 And Attached Railings	II*	1113197	24/10/1951
D	100m W	19, Great Ormond Street	II	1113207	14/05/1974
F	102m SW	29-37, Lambs Conduit Street	II	1379268	14/05/1974
5	103m S	28-38, Lambs Conduit Street	II	1379267	02/04/1981
6	104m E	13, Northington Street	II	1322077	11/01/1999
7	107m E	Numbers 22 To 28 And Attached Railings	II	1379157	24/10/1951
D	112m W	Numbers 21, 23 And 25 And Attached Railings To Number 25	II	1113208	14/05/1974
F	123m SW	Numbers 18-22 And Attached Railings	II	1271986	14/05/1974
D	124m W	Number 27 And Attached Railings	II	1113209	14/05/1974
8	133m NW	83, Lambs Conduit Street	II	1379275	05/03/1982
9	133m S	38, Great James Street	II	1113204	24/10/1957
10	136m E	Numbers 10 To 20 And Attached Railings	II	1379156	24/10/1951



ID	Location	Name	Grade	Reference Number	Listed date
11	137m N	Numbers 1-19 And Attached Railings	II	1271987	14/05/1974
12	138m E	Numbers 29 To 36 And Attached Railings	II	1379158	24/10/1951
G	140m NW	Lamb Public House	II	1379276	02/08/1973
H	149m SW	Numbers 9-15 And Attached Railings	II	1271985	01/08/1973
G	154m NW	Numbers 3 To 6 And Attached Railings And Lamp Holders	II	1246376	02/08/1973
I	154m NE	Numbers 39-47 And 49-62 And Attached Railings	II	1356734	14/05/1974
I	163m NE	Charles Dickens House And Attached Railings	I	1356735	10/06/1954
13	165m E	8, Northington Street	II	1322076	14/05/1974
H	168m SW	Number 10 And Attached Railings	II	1378735	01/08/1973
14	170m E	Numbers 2 To 9 And Attached Railings	II	1379155	24/10/1951
15	181m N	Numbers 8, 9 And 10 And Attached Railings To Numbers 9 And 10	II	1245855	14/05/1974
K	183m SE	K2 Telephone Kiosk Outside Number 23 Bedford Row	II	1272295	27/02/1987
K	183m SE	Number 23 And Attached Railings	II	1244576	24/10/1951
L	185m NW	Ladies And Gentlemens Public Conveniences	II	1245849	11/02/1998
K	186m S	K6 Telephone Kiosk Outside Number 25 Bedford Row (Number 25 Not Included)	II	1272296	10/06/1987
L	189m NW	Drinking Fountain	II	1246147	11/02/1998
18	193m NW	Bollard At Junction With Mecklenburgh Place	II	1271625	11/01/1999
19	205m E	Numbers 75 To 81 And 81a And Attached Railings	II	1113100	14/05/1974
20	207m N	Bollard At Junction With Doughty Street	II	1271624	11/01/1999
21	209m E	63 To 69, Grays Inn Road	II	1113099	11/01/1999
22	211m NE	Number 121 And Attached Railings	II	1113101	19/06/1973
23	213m SE	Gray's Inn Gardens Railings And Wall On North Side	II	1322142	24/10/1951
M	213m N	Numbers 3 To 7 And Attached Railings	II	1245854	14/05/1974
24	216m W	Number 41 To 61 And Attached Railings	II	1113210	24/10/1951
N	219m E	Numbers 14-22 And Attached Railings	II	1379005	24/10/1951
J	226m E	55, Grays Inn Road	II	1113098	12/02/1991
O	227m SE	Number 17 And Attached Railings	II	1244575	24/10/1951



ID	Location	Name	Grade	Reference Number	Listed date
25	230m S	45 And 46, Red Lion Street	II	1245494	12/11/1990
M	232m N	Bollard With Spur Stones At Entrance To Brownlow Mews	II	1378646	11/01/1999
26	233m NW	Gates And Railings On East Side Of Forecourt To Former Foundling Hospital	II	1271632	14/05/1974
N	234m E	Number 12 And Attached Railings	II	1379004	14/05/1974
27	234m S	Numbers 29-32 And Attached Railings	II	1244577	14/05/1974
28	234m SE	Gateway And Walls To North And West Of Raymond Buildings Raymond Buildings Gateway And Walls	II	1322152	14/05/1974
M	238m N	Numbers 105 To 110 And Attached Railings	II	1271623	14/05/1974
O	238m SE	Numbers 15 And 16 And Attached Railings	II*	1244605	24/10/1951
29	238m W	Great Ormond Street Hospital Chapel In Central Block	II*	1113211	10/03/1980

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

## 11.5 Conservation Areas

### Records within 250m

2

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

Features are displayed on the Visual and cultural designations map on [page 107 >](#)

ID	Location	Name	District	Date of designation
1	On site	Bloomsbury	Camden	19/09/1968
J	172m NE	Hatton Garden	Camden	01/12/1968

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



## 11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

## 11.7 Registered Parks and Gardens

Records within 250m

2

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

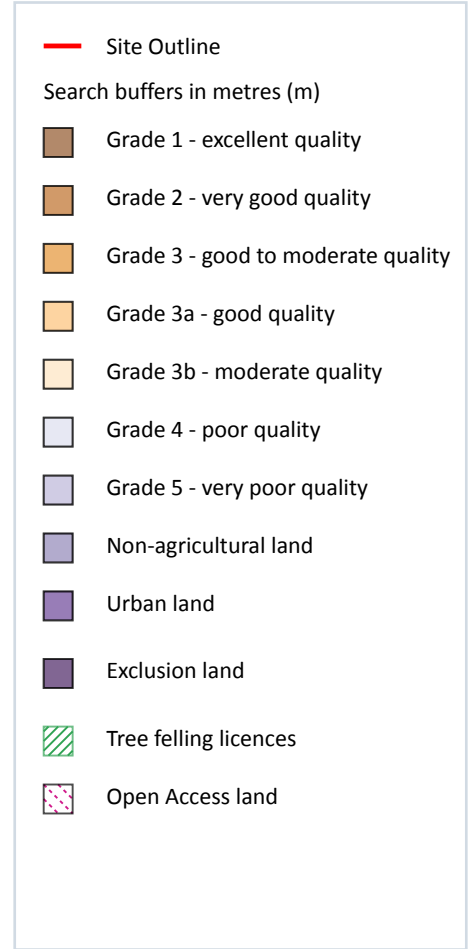
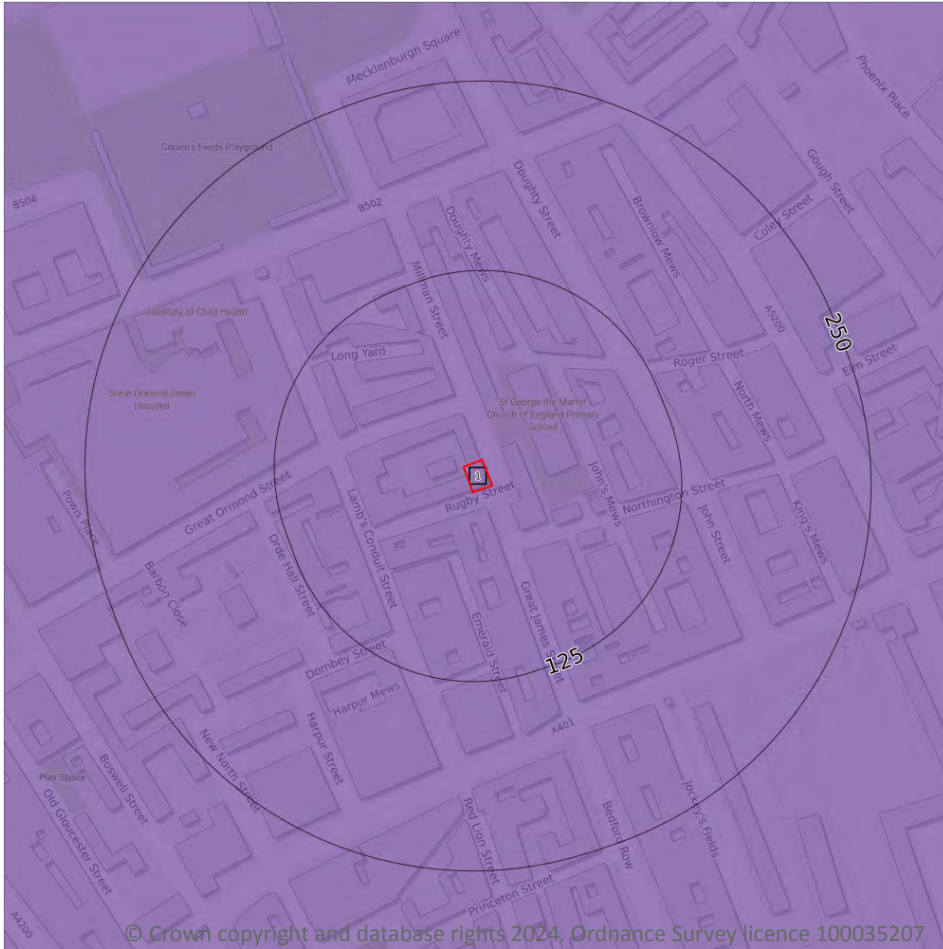
Features are displayed on the Visual and cultural designations map on [page 107 >](#)

ID	Location	Name	Grade
16	181m SE	Gray's Inn	II*
17	189m NW	Coram's Fields, With Mecklenburgh And Brunswick Squares	II

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



## 12 Agricultural designations



### 12.1 Agricultural Land Classification

<b>Records within 250m</b>	<b>1</b>
----------------------------	----------

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

Features are displayed on the Agricultural designations map on [page 113](#) >

ID	Location	Classification	Description
1	On site	Urban	-

*This data is sourced from Natural England.*

## 12.2 Open Access Land

Records within 250m

0

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

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

## 12.3 Tree Felling Licences

Records within 250m

0

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

*This data is sourced from the Forestry Commission.*

## 12.4 Environmental Stewardship Schemes

Records within 250m

0

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

*This data is sourced from Natural England.*

## 12.5 Countryside Stewardship Schemes

Records within 250m

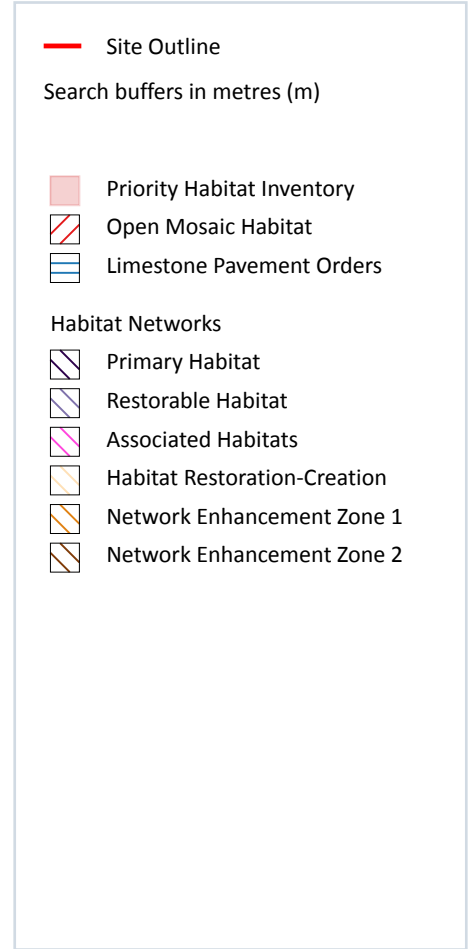
0

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

*This data is sourced from Natural England.*



## 13 Habitat designations



### 13.1 Priority Habitat Inventory

Records within 250m

4

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

Features are displayed on the Habitat designations map on [page 115 >](#)

ID	Location	Main Habitat	Other habitats
1	186m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	199m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	231m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	244m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)





*This data is sourced from Natural England.*

## 13.2 Habitat Networks

**Records within 250m**

**0**

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

*This data is sourced from Natural England.*

## 13.3 Open Mosaic Habitat

**Records within 250m**

**0**

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

*This data is sourced from Natural England.*

## 13.4 Limestone Pavement Orders

**Records within 250m**

**0**

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

*This data is sourced from Natural England.*



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



— Site Outline  
 Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

### 14.1 10k Availability

Records within 500m

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.

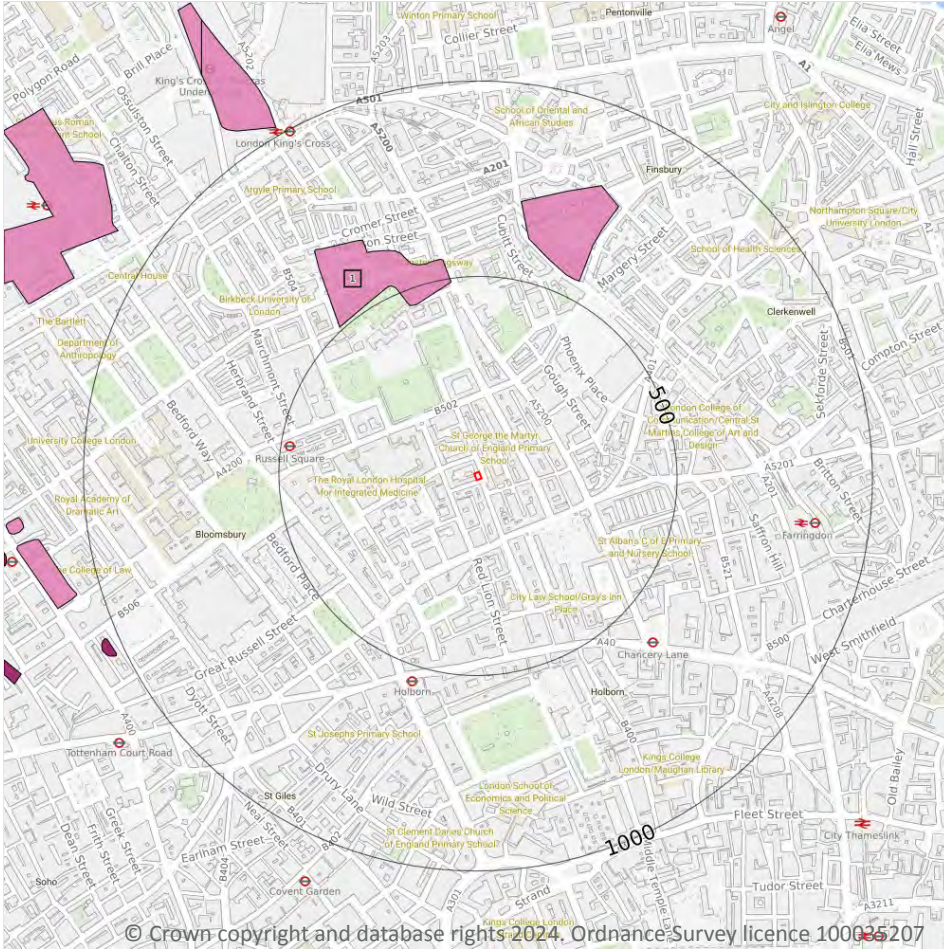
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 117](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TQ38SW

This data is sourced from the British Geological Survey.



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



**Site Outline**

Search buffers in metres (m)

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

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

**Records within 500m** **1**

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

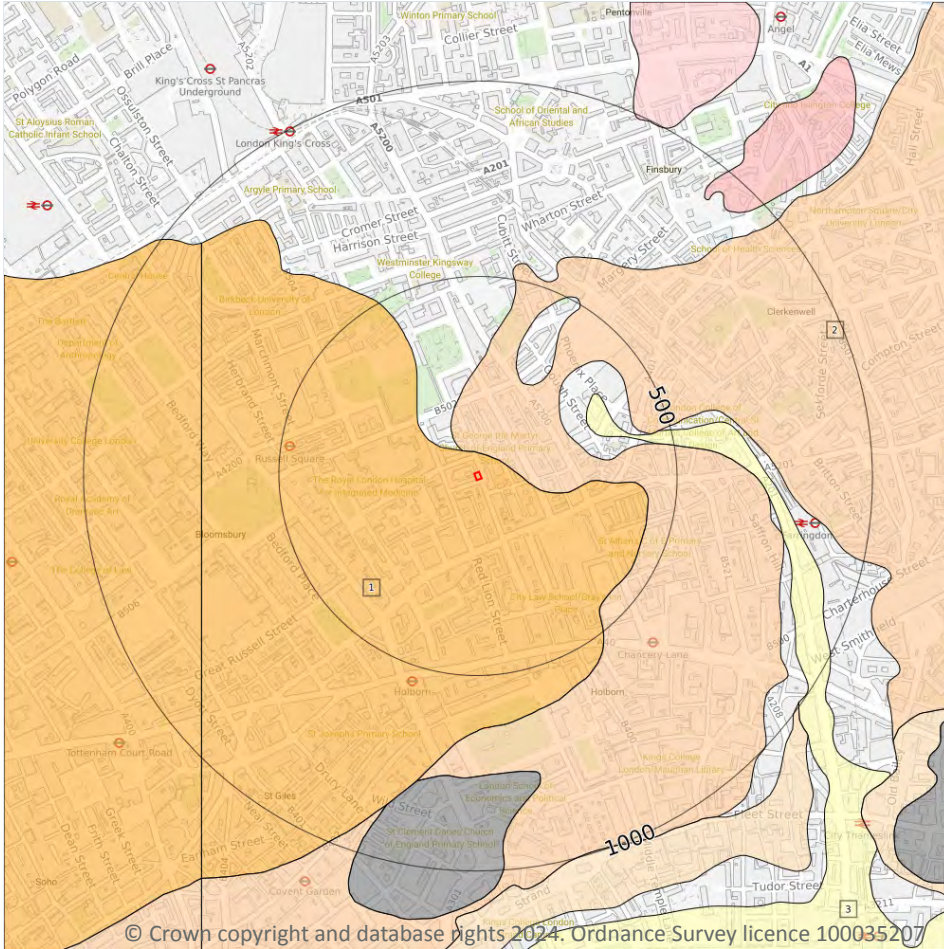
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 118](#) >

ID	Location	LEX Code	Description	Rock description
1	457m N	WGR-ARTDP	Worked Ground (Undivided)	Artificial Deposit

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



## Geology 1:10,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (10k)
- Superficial geology (10k)  
Please see table for more details.

### 14.3 Superficial geology (10k)

Records within 500m

3

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 119](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	LHGR-XSV	Lynch Hill Gravel Member - Sand And Gravel	Sand And Gravel
2	46m N	HAGR-XSV	Hackney Gravel Member - Sand And Gravel	Sand And Gravel
3	303m NE	ALV-XCZ	Alluvium - Clay And Silt	Clay And Silt

This data is sourced from the British Geological Survey.



## 14.4 Landslip (10k)

Records within 500m

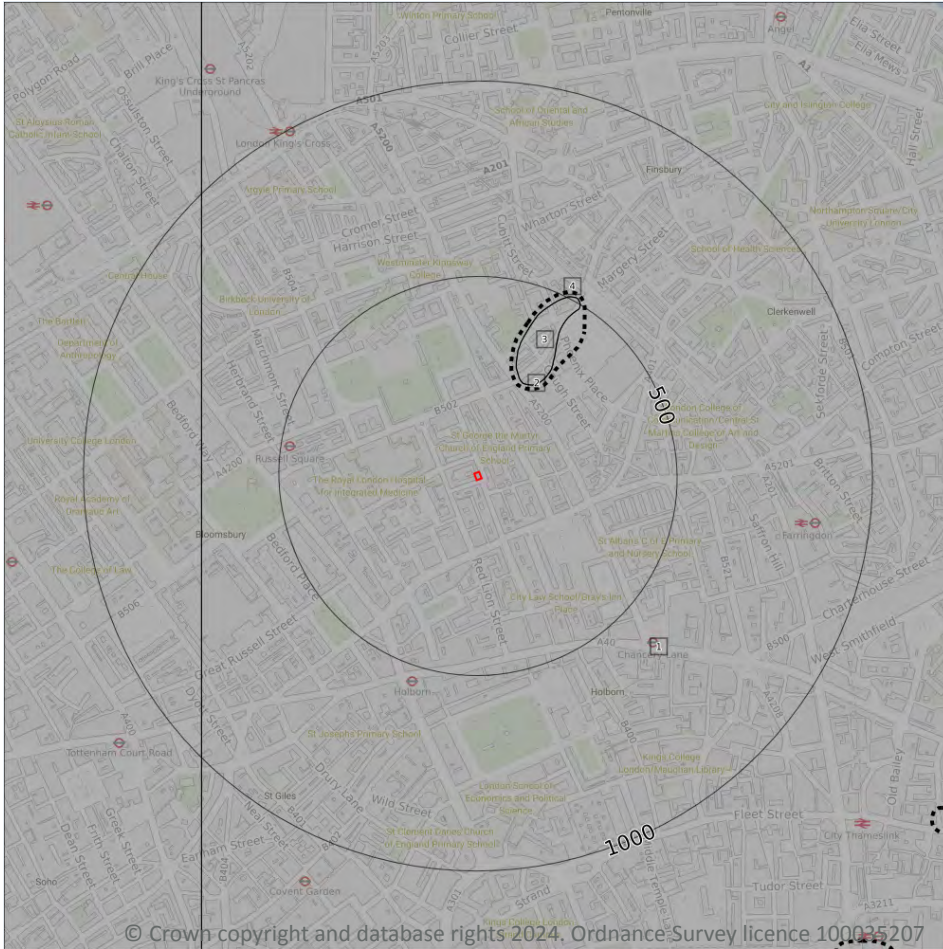
0

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

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



## Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- ..... Bedrock faults and other linear features (10k)
- Bedrock geology (10k)  
Please see table for more details.

### 14.5 Bedrock geology (10k)

Records within 500m

2

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 121](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	LC-CLAY	London Clay Formation - Clay	Eocene Epoch
3	253m NE	LMBE-CLSSG	Lambeth Group - Clay, Silt, Sand And Gravel	Paleocene Epoch

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



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

Records within 500m

2

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.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 121](#) >

ID	Location	Category	Description
2	243m NE	LANDFORM	Hollow filled with Superficial Deposits
4	401m N	LANDFORM	Hollow filled with Superficial Deposits

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



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



— Site Outline  
 Search buffers in metres (m)

□ Geological map tile

### 15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 123](#) >

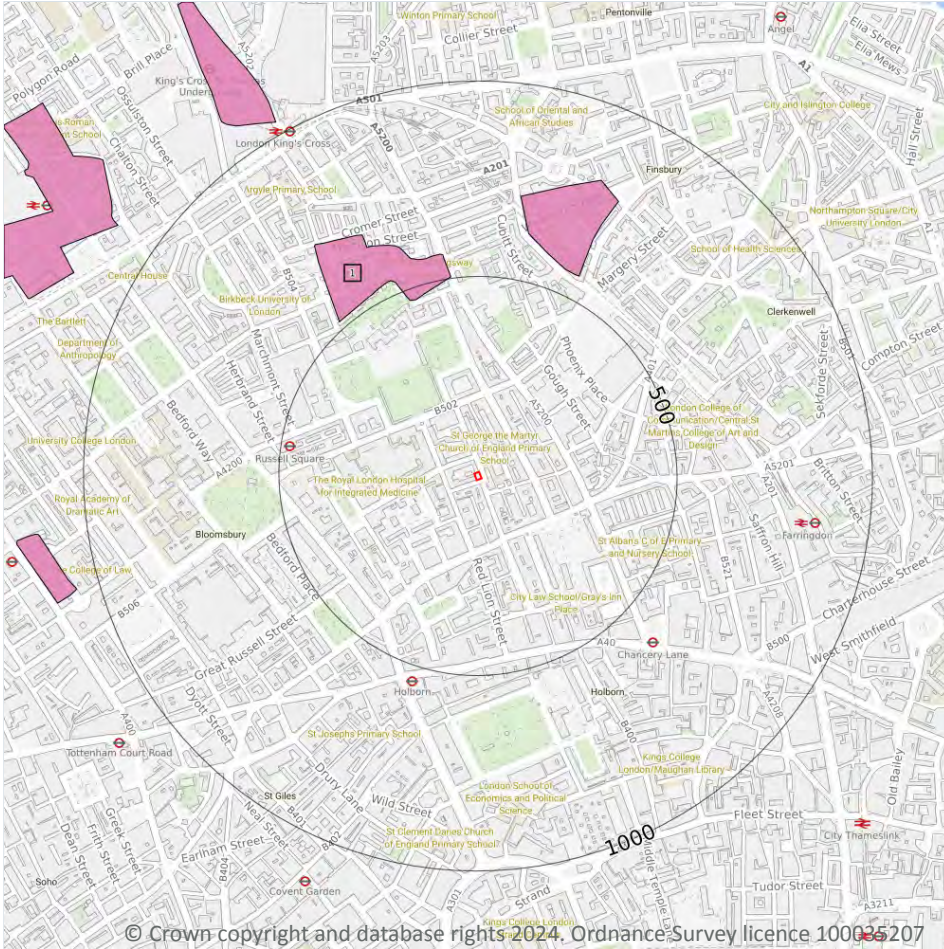
ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW256_north_london_v4

This data is sourced from the British Geological Survey.





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



— Site Outline

Search buffers in metres (m)

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

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

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 124 >](#)

ID	Location	LEX Code	Description	Rock description
1	469m N	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.



### 15.3 Artificial ground permeability (50k)

Records within 50m

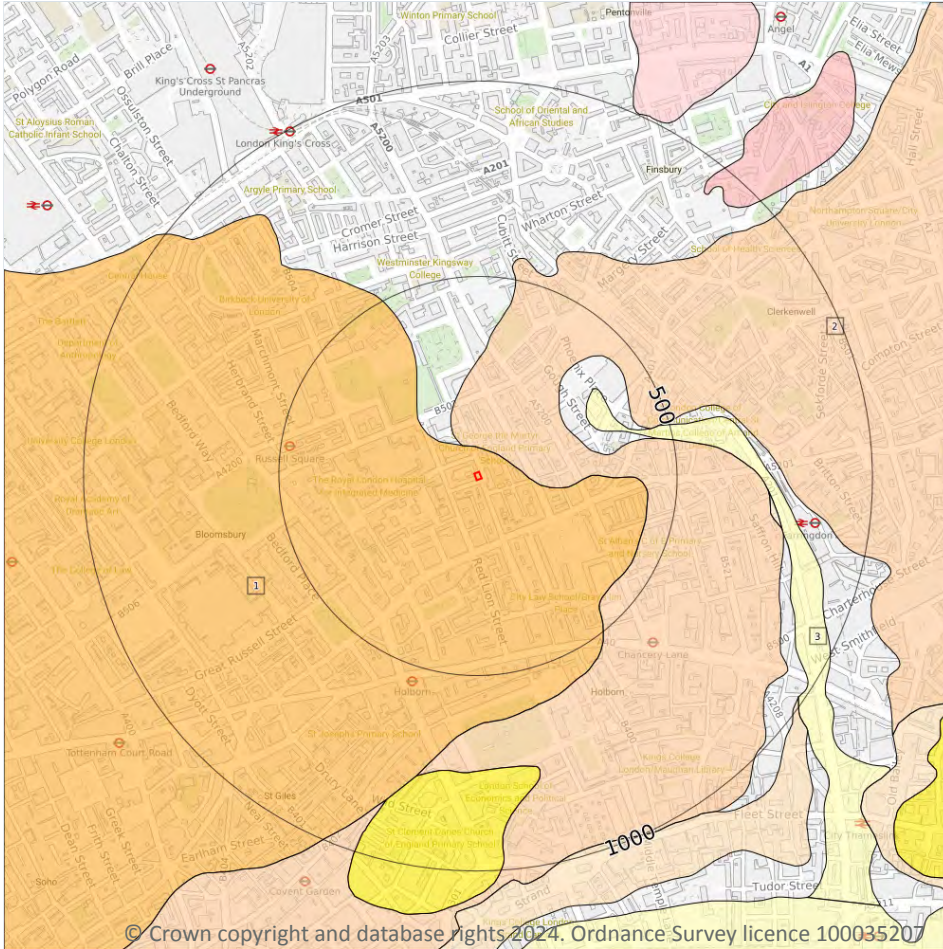
0


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

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



## Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
-  Landslip (50k)
- Superficial geology (50k)  
Please see table for more details.

### 15.4 Superficial geology (50k)

Records within 500m

3

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 126 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	LHGR-XSV	LYNCH HILL GRAVEL MEMBER	SAND AND GRAVEL
2	59m N	HAGR-XSV	HACKNEY GRAVEL MEMBER	SAND AND GRAVEL
3	309m NE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.



## 15.5 Superficial permeability (50k)

**Records within 50m** **1**

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

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

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

## 15.6 Landslip (50k)

**Records within 500m** **0**

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

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

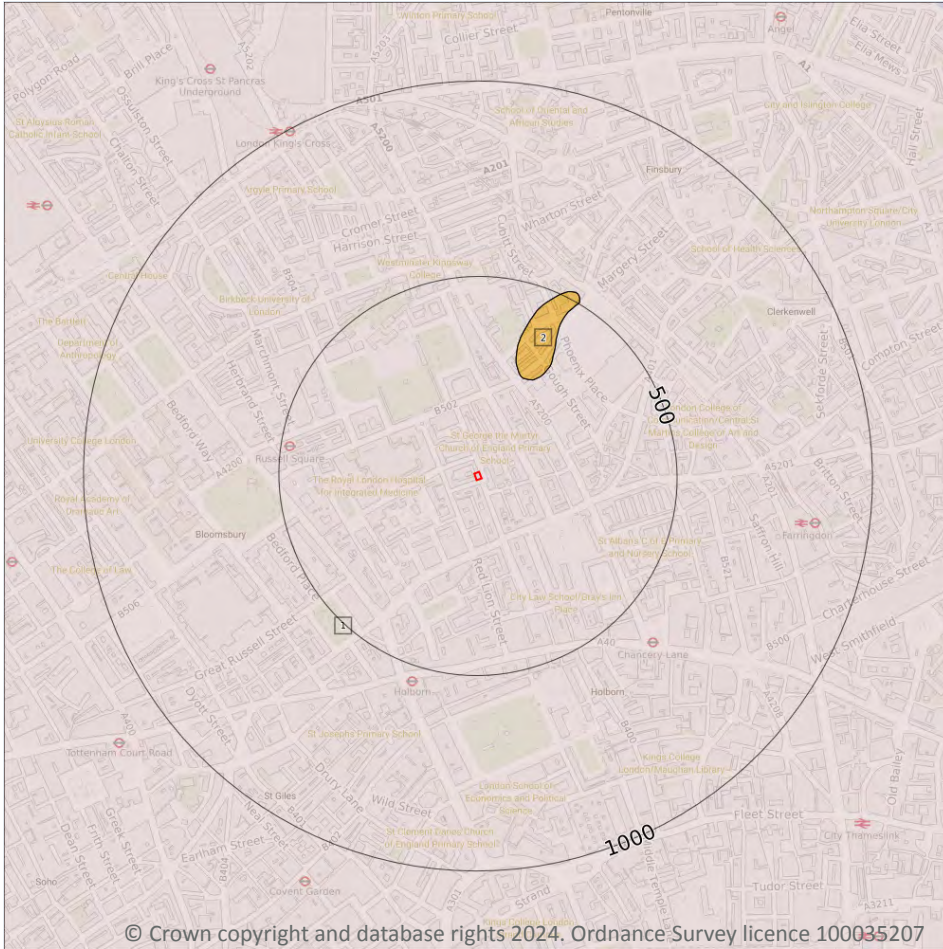
## 15.7 Landslip permeability (50k)

**Records within 50m** **0**

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

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

## Geology 1:50,000 scale - Bedrock



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

### 15.8 Bedrock geology (50k)

Records within 500m

2

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 128](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN
2	265m NE	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN

This data is sourced from the British Geological Survey.



## 15.9 Bedrock permeability (50k)

<b>Records within 50m</b>	<b>1</b>
---------------------------	----------

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
<b>On site</b>	<b>Mixed</b>	<b>Moderate</b>	<b>Very Low</b>

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

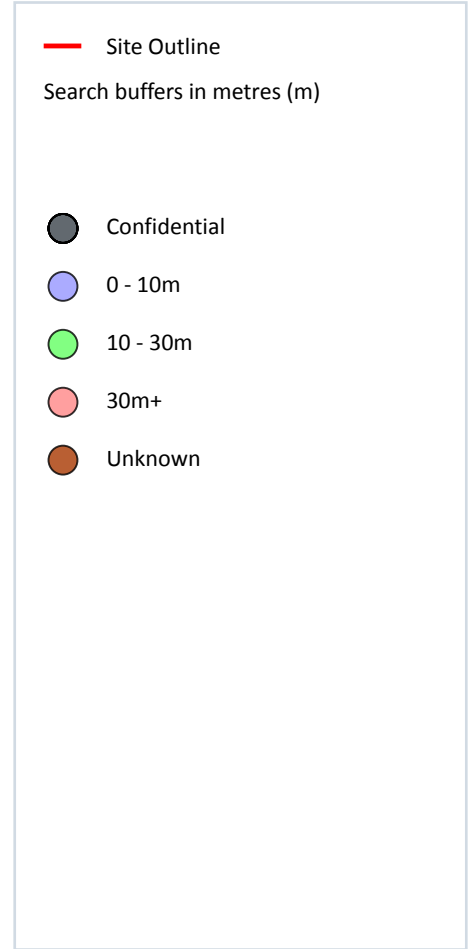
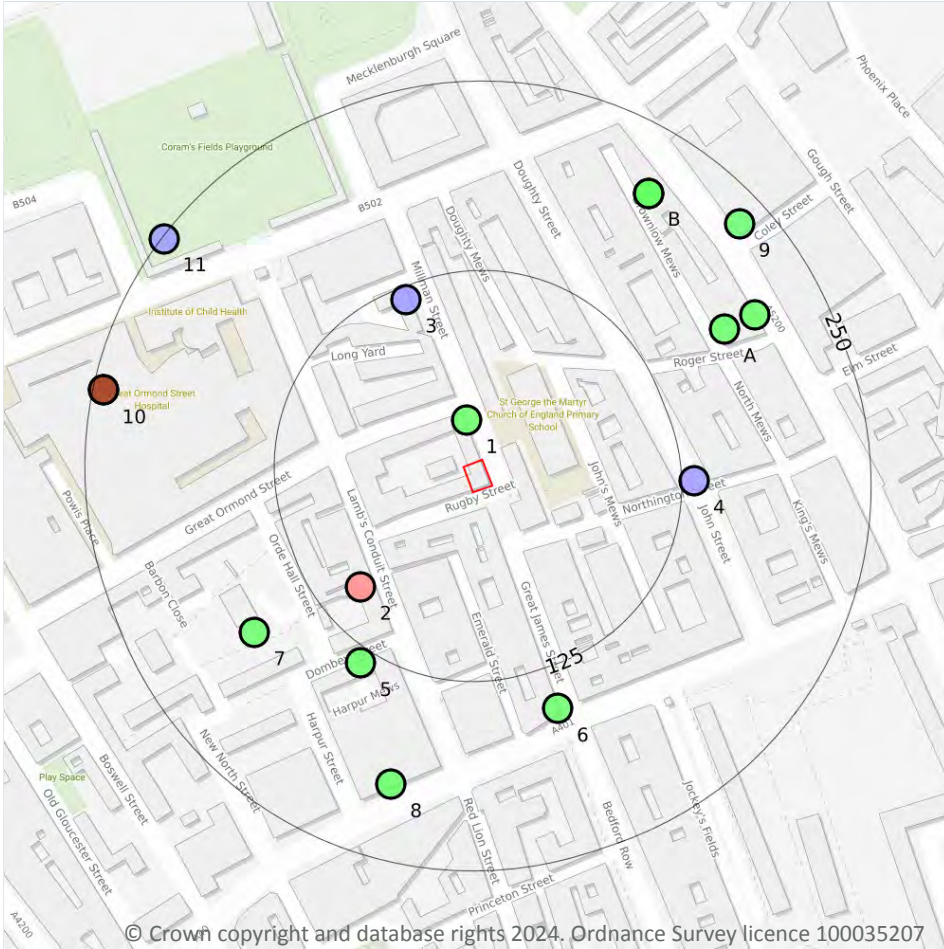
## 15.10 Bedrock faults and other linear features (50k)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

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

## 16 Boreholes



### 16.1 BGS Boreholes

Records within 250m

15

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on [page 130](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	28m N	530700 182080	P.O. TUNNEL MILLMAN ST HOLBORN S22	22.25	N	<a href="#">1063612</a> ↗
2	97m SW	530630 181970	G.P.O. NO.10 HOLBORN	32.91	N	<a href="#">1063413</a> ↗



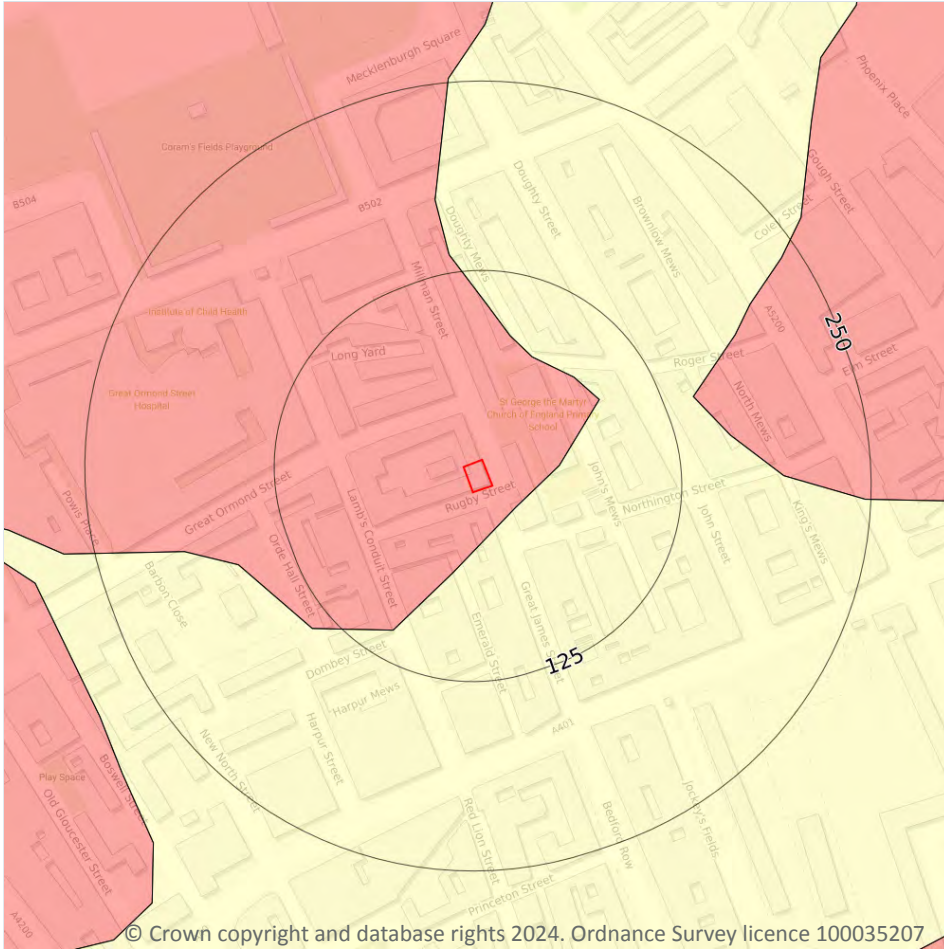
ID	Location	Grid reference	Name	Length	Confidential	Web link
3	117m N	530660 182160	MILLMAN ST HOLBORN	8.0	N	<a href="#">1064193</a> ↗
4	133m E	530850 182040	JOHN STREET HOLBORN	6.4	N	<a href="#">1063436</a> ↗
5	135m SW	530630 181920	8-9 HARSPUR ST 1	25.0	N	<a href="#">1066091</a> ↗
6	153m S	530760 181890	BEDFORD ROW/THEOBALDS ROAD	16.6	N	<a href="#">1063464</a> ↗
7	171m SW	530560 181940	HOLBORN B C ORMOND CLOSE HOLBORN	10.67	N	<a href="#">1064195</a> ↗
A	182m NE	530870 182140	GRAYS INN ROAD WC1 BH1	30.0	N	<a href="#">1066724</a> ↗
8	200m S	530650 181840	8-9 HARSPUR ST 2	10.6	N	<a href="#">1066092</a> ↗
A	204m NE	530890 182150	GRAYS INN ROAD WC1 BH2	15.0	N	<a href="#">1066725</a> ↗
B	208m NE	530820 182230	123-129 GRAYS INN ROAD 2	25.0	N	<a href="#">15623135</a> ↗
B	208m NE	530820 182230	123-129 GRAYS INN ROAD 1	24.5	N	<a href="#">15623134</a> ↗
9	231m NE	530880 182210	GRAYS INN ROAD BH2 HOLBORN	24.38	N	<a href="#">1064488</a> ↗
10	243m W	530460 182100	GREAT ORMAND STREET HOSPITAL TP 10	-1.0	N	<a href="#">15624097</a> ↗
11	249m NW	530500 182200	LAMBS CONDUIT STREET HOLBORN	6.55	N	<a href="#">1063927</a> ↗

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





## 17 Natural ground subsidence - Shrink swell clays



— Site Outline  
Search buffers in metres (m)

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

### 17.1 Shrink swell clays

Records within 50m

2

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

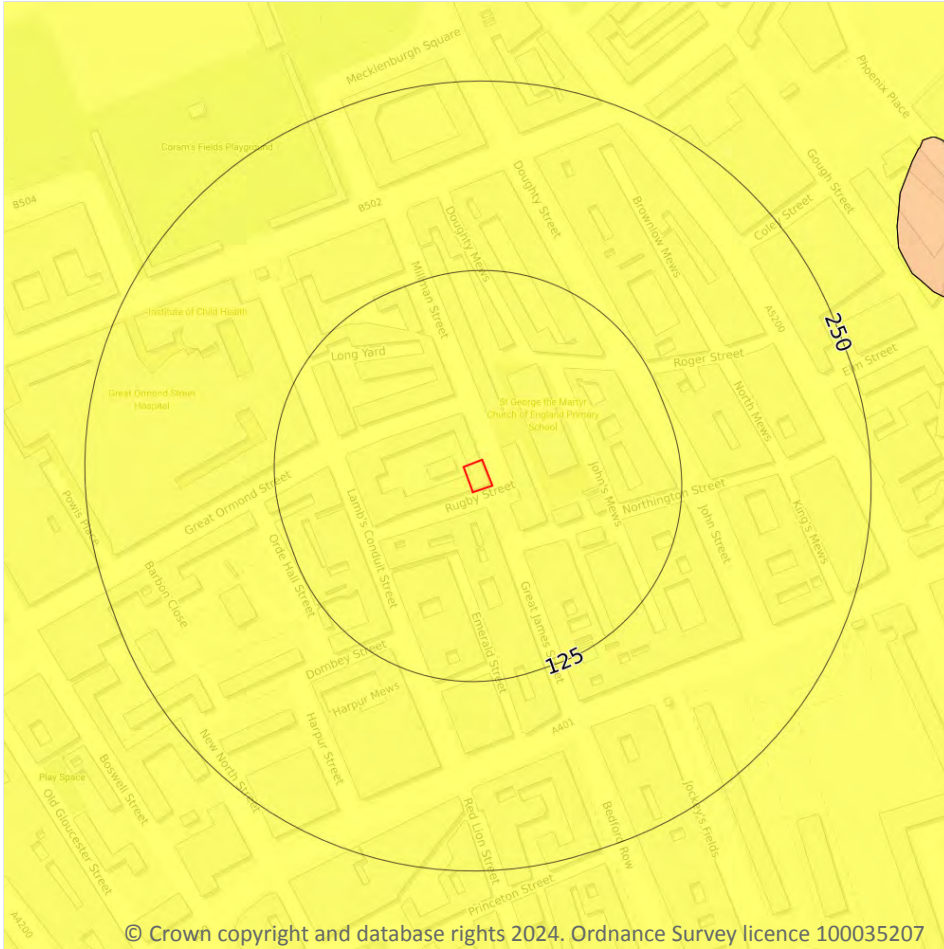
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 132 >](#)

Location	Hazard rating	Details
On site	Moderate	Ground conditions predominantly high plasticity.
21m SE	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



## Natural ground subsidence - Running sands



### 17.2 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.

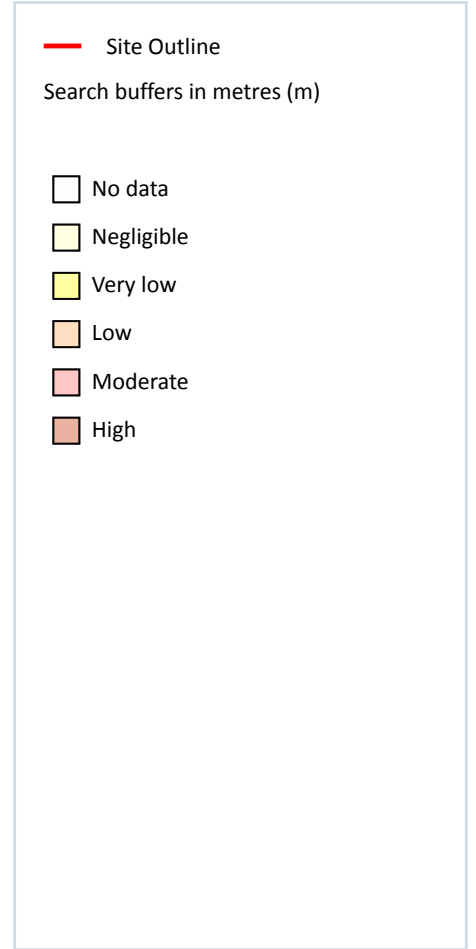
Features are displayed on the Natural ground subsidence - Running sands map on [page 133](#) >

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



### 17.3 Compressible deposits

Records within 50m

1

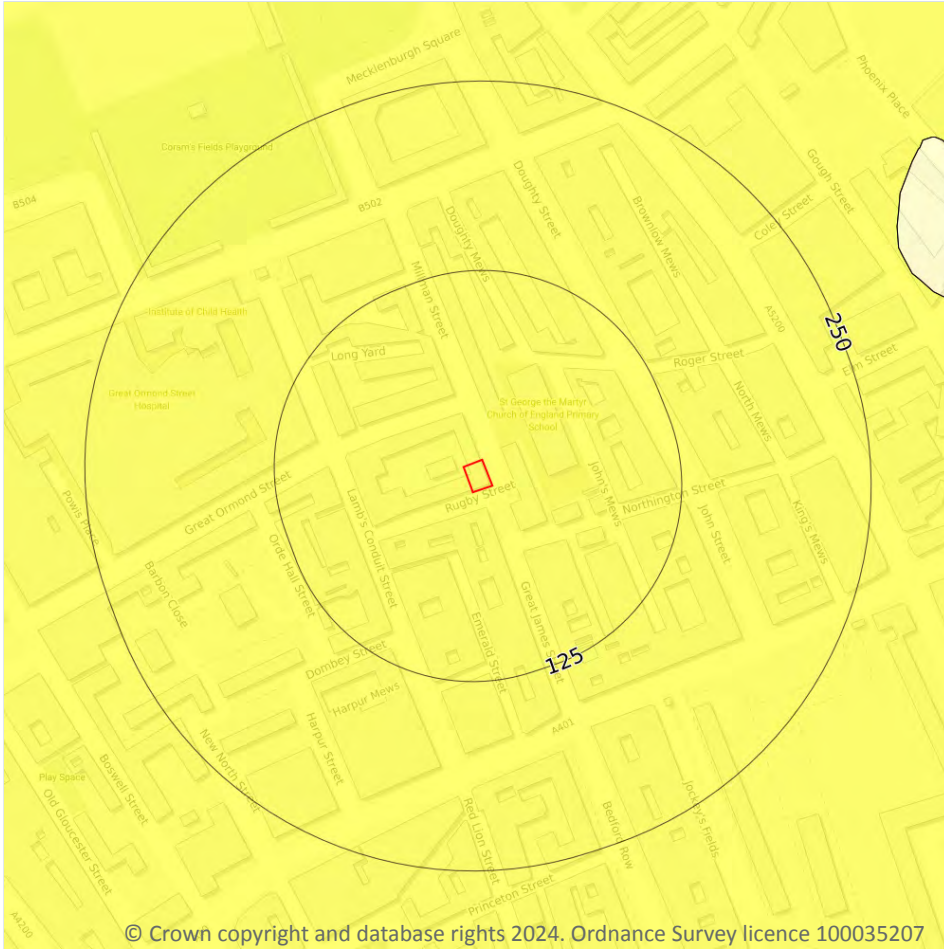
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 134](#) >

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



### 17.4 Collapsible deposits

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 135 >](#)

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



— Site Outline  
Search buffers in metres (m)

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

### 17.5 Landslides

Records within 50m

1

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

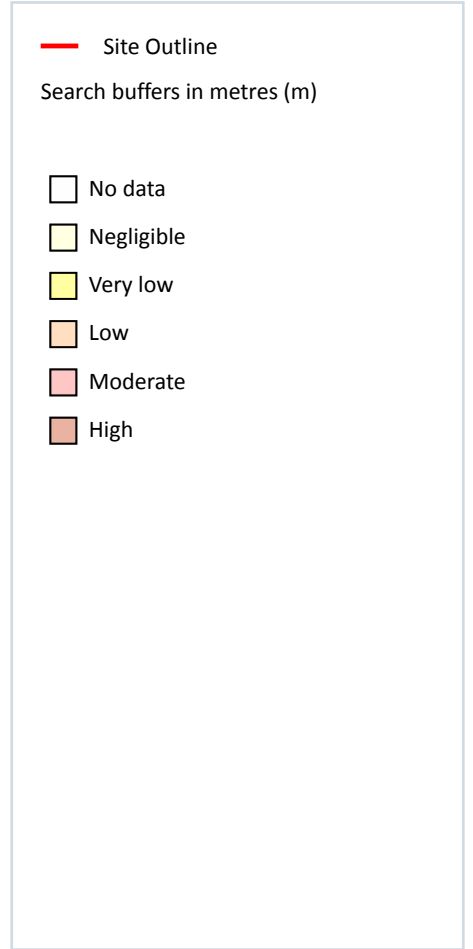
Features are displayed on the Natural ground subsidence - Landslides map on [page 136](#) >

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



### 17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 137](#) >

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

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



## 18 Mining and ground workings



### 18.1 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.*



## 18.2 Surface ground workings

### Records within 250m

**1**

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

Features are displayed on the Mining and ground workings map on [page 139](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
1	238m SE	Unspecified Ground Workings	1898	1:10560

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

## 18.3 Underground workings

### Records within 1000m

**18**

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

Features are displayed on the Mining and ground workings map on [page 139](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
B	538m NE	Tunnel	1894	1:10560
B	546m NE	Tunnel	1873	1:10560
B	546m NE	Tunnel	1873	1:10560
C	555m NE	Tunnel	1894	1:10560
C	557m NE	Tunnel	1994	1:10000
C	557m NE	Tunnel	1966	1:10560
C	557m NE	Tunnel	1976	1:10000
C	557m NE	Tunnel	1971	1:10000
-	631m N	Tunnel	1894	1:10560
-	636m N	Tunnel	1873	1:10560
-	636m N	Tunnel	1873	1:10560
-	716m N	Tunnel	1873	1:10560
-	716m N	Tunnel	1873	1:10560
-	939m N	Tunnel	1894	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	951m E	Tunnel	1895	1:10560
-	978m N	Tunnel	1894	1:10560
-	985m N	Tunnel	1873	1:10560
-	985m N	Tunnel	1873	1:10560

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

## 18.4 Underground mining extents

**Records within 500m**

**0**

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

*This data is sourced from Groundsure.*

## 18.5 Historical Mineral Planning Areas

**Records within 500m**

**0**

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

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

## 18.6 Non-coal mining

**Records within 1000m**

**0**

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

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



## 18.7 JPB mining areas

Records on site

0

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

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

## 18.8 The Coal Authority non-coal mining

Records within 500m

0

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

*This data is sourced from The Coal Authority.*

## 18.9 Researched mining

Records within 500m

3

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

Location	Mineral type
355m S	Unspecified
393m SE	Stone
457m N	Stone

*This data is sourced from Groundsure.*

## 18.10 Mining record office plans

Records within 500m

0

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



*This data is sourced from Groundsure.*

### 18.11 BGS mine plans

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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

*This data is sourced from Groundsure.*

### 18.12 Coal mining

<b>Records on site</b>	<b>0</b>
------------------------	----------

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

*This data is sourced from the Coal Authority.*

### 18.13 Brine areas

<b>Records on site</b>	<b>0</b>
------------------------	----------

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

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

### 18.14 Gypsum areas

<b>Records on site</b>	<b>0</b>
------------------------	----------

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

### 18.15 Tin mining

<b>Records on site</b>	<b>0</b>
------------------------	----------

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*



## 18.16 Clay mining

Records on site

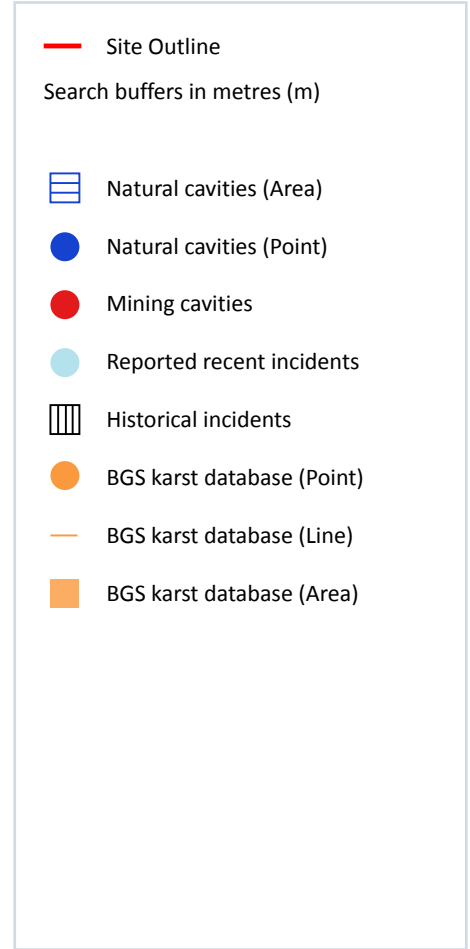
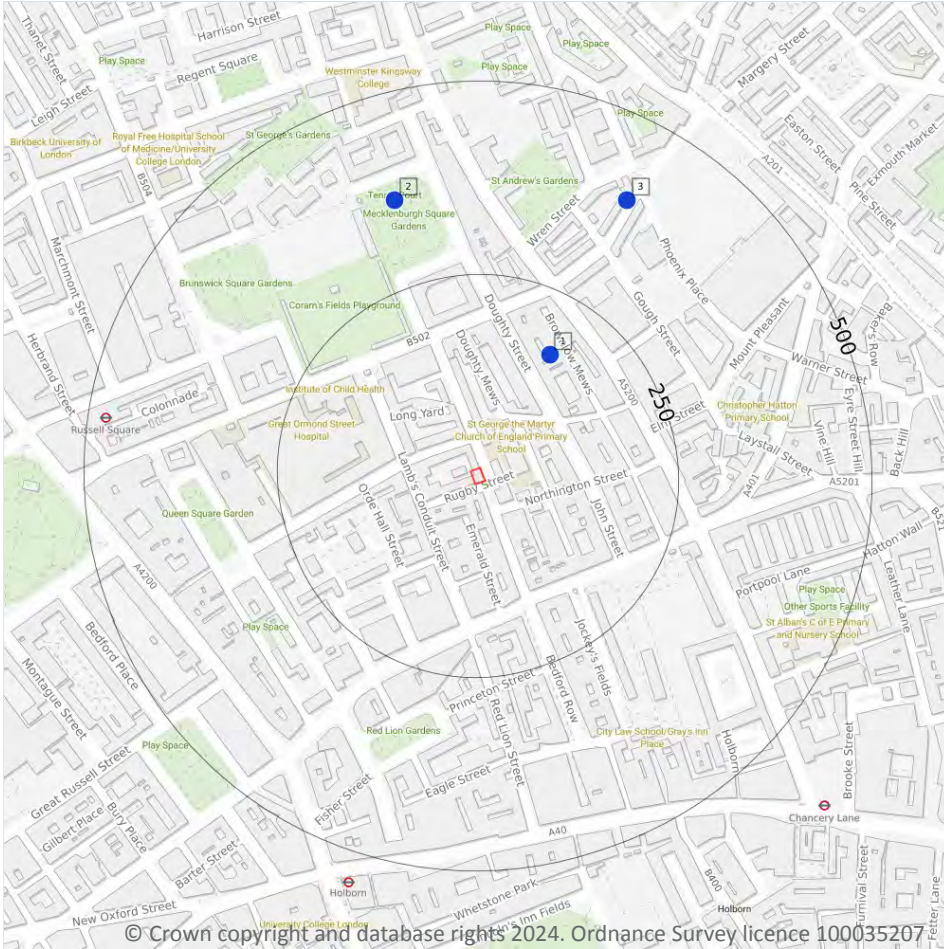
0

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

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



## 19 Ground cavities and sinkholes



### 19.1 Natural cavities

Records within 500m

3

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

Features are displayed on the Ground cavities and sinkholes map on [page 145](#) >

ID	Location	Details	Source
1	171m NE	Type: Sinkhole x 1 Superficial Geology: Hackney Gravel, Lynch Hill Gravel Bedrock Geology: Chalk Group, Lambeth Group, London Clay Formation	Simple Bibliography: Wakeling. T.R.M., and Jennings. R.A., (1976) Some Unusual Structures in the River Gravels of the Thames Basin. Q J Eng Geol. Vol 9 1976, pp-225-263. Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
2	363m N	Type: Unknown x 1 Superficial Geology: Alluvium Bedrock Geology: London Clay Formation	Simple Bibliography: - Full Bibliography: WAKELING, T.R.M. AND JENNINGS, R.A.J., Some unusual structures in the river gravels of the Thames basin., 1976; Quartely Journal of Engineering Geology. Confidentiality: Data source can be revealed, data can be used freely
3	394m NE	Type: Scour Hollows x 1 Superficial Geology: Hackney Gravel Bedrock Geology: Lambeth Group	Simple Bibliography: Berry. F.G., (1979). Late Quaternary Scour-Hollows and Related Features in Central London. Quarterly Journal of Engineering Geology. Volume 12. pp. 9-29. Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely

*This data is sourced from Stantec UK Ltd.*

## 19.2 Mining cavities

**Records within 1000m**

**0**

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

*This data is sourced from Stantec UK Ltd.*

## 19.3 Reported recent incidents

**Records within 500m**

**0**

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

*This data is sourced from Groundsure.*



## 19.4 Historical incidents

Records within 500m

0

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

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

*This data is sourced from Groundsure.*

## 19.5 National karst database

Records within 500m

0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

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





## 20 Radon



— Site Outline  
 Search buffers in metres (m)

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

### 20.1 Radon

#### Records on site

1

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

Features are displayed on the Radon map on [page 148 >](#)

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



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



## 21 Soil chemistry

### 21.1 BGS Estimated Background Soil Chemistry

Records within 50m

2

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km<sup>2</sup>. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km<sup>2</sup>; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
<b>On site</b>	<b>No data</b>	<b>No data</b>	<b>No data</b>	<b>No data</b>	<b>No data</b>	<b>No data</b>	<b>No data</b>
33m S	No data	No data	No data	No data	No data	No data	No data

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

### 21.2 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 km<sup>2</sup>).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
<b>On site</b>	<b>22</b>	<b>3.8</b>	<b>632</b>	<b>434</b>	<b>1.2</b>	<b>76</b>	<b>137</b>	<b>34</b>	<b>57</b>
<b>On site</b>	<b>23</b>	<b>4</b>	<b>614</b>	<b>422</b>	<b>0.7</b>	<b>65</b>	<b>111</b>	<b>30</b>	<b>46</b>
33m S	19	3.3	506	348	1.1	73	102	30	36
33m S	21	3.7	538	370	0.7	63	91	27	34
46m N	24	4.2	738	507	1.1	72	164	36	78
47m N	25	4.4	711	488	0.7	66	137	32	64

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



## 21.3 BGS Measured Urban Soil Chemistry

Records within 50m

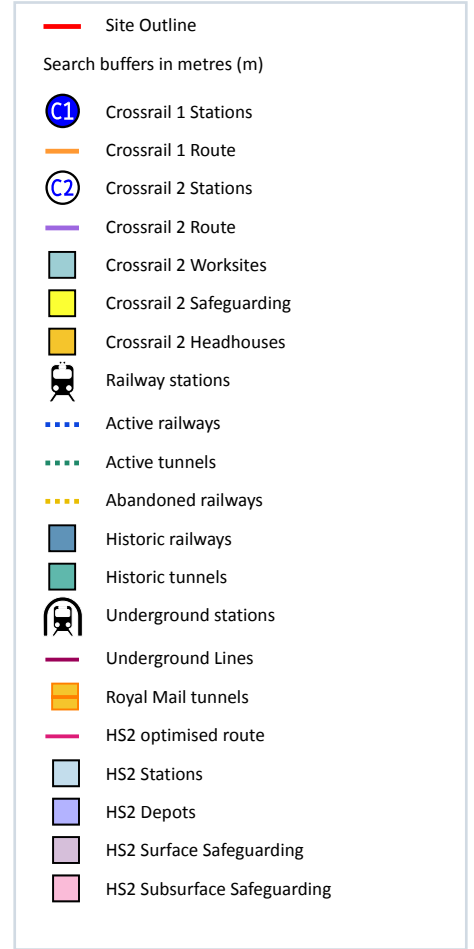
0

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

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



## 22 Railway infrastructure and projects



### 22.1 Underground railways (London)

Records within 250m

0

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

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

### 22.2 Underground railways (Non-London)

Records within 250m

0

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

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

## 22.3 Railway tunnels

**Records within 250m**

**0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

## 22.4 Historical railway and tunnel features

**Records within 250m**

**0**

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

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

## 22.5 Royal Mail tunnels

**Records within 250m**

**1**

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.

Features are displayed on the Railway infrastructure and projects map on [page 152 >](#)

Location	Nearest verified depth to tunnel top	Nearest verified depth to rail	Nearest depth reading	Location of depth reading
6m N	13.24m bgl	15.98m bgl	Millman Street	33m N

*This data is sourced from Groundsure/the Postal Museum.*

## 22.6 Historical railways

**Records within 250m**

**1**

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

Features are displayed on the Railway infrastructure and projects map on [page 152 >](#)



Location	Description
11m NW	disused - Royal Mail Tunnels

*This data is sourced from OpenStreetMap.*

## 22.7 Railways

<b>Records within 250m</b>	<b>0</b>
----------------------------	----------

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

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 22.8 Crossrail 1

<b>Records within 500m</b>	<b>3</b>
----------------------------	----------

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.

Features are displayed on the Railway infrastructure and projects map on [page 152 >](#)

Location	Route Type
268m S	Tunnel Alignment
281m S	Tunnel Alignment
310m S	Tunnel Alignment

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

## 22.9 Crossrail 2

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

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

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

## 22.10 HS2

Records within 500m

0

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

*This data is sourced from HS2 Ltd.*





## Data providers

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

## Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: [www.groundsure.com/terms-and-conditions-april-2023/](http://www.groundsure.com/terms-and-conditions-april-2023/) ↗.



**Site Details:**

RUGBY CHAMBERS, 2, RUGBY STREET, LONDON, CAMDEN, WC1N 3QU

**Client Ref:** PO24-0336  
**Report Ref:** GS-WJJ-HOI-FT3-5CA  
**Grid Ref:** 530707, 182043

**Map Name:** 1056 Scale Town Plan

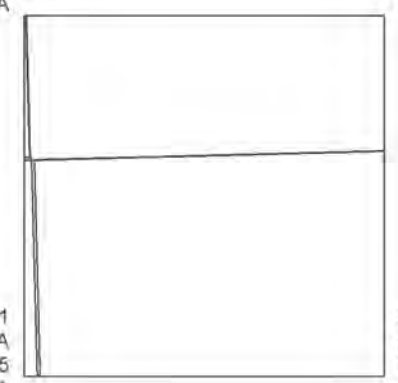
**Map date:** 1871-1875

**Scale:** 1:1,056

**Printed at:** 1:1,056



Surveyed N/A	Surveyed 1871
Revised N/A	Revised N/A
Edition N/A	Edition 1874
Copyright N/A	Copyright N/A
Levelled N/A	Levelled N/A



Surveyed 1871	Surveyed 1872
Revised N/A	Revised N/A
Edition 1875	Edition 1875
Copyright N/A	Copyright N/A
Levelled N/A	Levelled N/A



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