

Oakwood International Investment Corporation  
Stephenson Way, Euston, London, NW1 2HD

## Phase 1 Contamination Assessment



**MLM.**

Group

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## Document History

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# Contents

1	Executive Summary .....	1
2	General Notes .....	3
3	Introduction .....	4
3.1	General .....	4
3.2	Terms of Reference .....	4
3.3	Scope of Work .....	4
3.4	Technical Approach .....	4
3.5	Proposed Development .....	4
4	The Site .....	5
4.1	Location .....	5
4.2	Site Environmental Setting .....	5
5	Site Reconnaissance and Desk Study .....	6
5.1	General .....	6
5.2	Site Reconnaissance .....	6
5.3	Site History .....	6
5.4	Environmental Data Searches .....	7
6	Conceptual Site Model .....	11
6.1	General .....	11
6.2	Potential Sources of Contamination .....	11
6.3	Potential Pollutant Linkages .....	11
7	Summary and Recommendations .....	14
7.1	Summary .....	14
7.2	Recommendations .....	14
8	References .....	15

## Figures

Figure 1: Site Location Plan

Appendix A - Groundsure Report

Appendix B - Site Photographs

Appendix C - HSE Report

# 1 Executive Summary

Details	Summary of Main Text
Introduction	This report has been prepared by MLM Consulting Engineers Limited (MLM) on the instructions of TP Bennett LLP on behalf of Oakwood International Investment Corporation, which is proposing to develop the site with a student residential scheme. It presents the results of a Phase 1 Contamination Assessment for the site.
Site Description	<p>The 0.04 hectare site is rectangular in shape and is currently vacant. It slopes down approximately 1.80m from the north to the south and is used for car parking and access to adjacent properties. There is a steel frame on site which is connected to the adjacent building to the west.</p> <p>Mature trees are also present on site.</p>
Site History	Historical maps show terraced buildings on site pre-1870. London bomb damage maps (1939-1945) record bomb damage (beyond repair/seriously damaged). By 1966, the terraced buildings in the eastern half were demolished and replaced with a larger building extending off site. By 1991 the buildings on site are not shown.
Environmental Setting	<p>The geological map of the area shows the site to be underlain by the Lynch Hill Gravel Member (Superficial (A) Aquifer) over the London Clay Formation (Unproductive Strata). The site is not within a groundwater source protection zone. The site is not in an area affected by radon.</p> <p>There are no significant surface water features within 1km of the site. A canal is located approximately 1.15km to the northeast. Ponds (part of The Regent's Park) are located approximately 1.15km to the west.</p> <p>The site is situated in a predominantly commercial area, with buildings adjacent to the east, south and west. Stephenson Road directly borders the site to the north, beyond which are further commercial buildings.</p>
Potential Contamination Sources	<p>The desk study and site reconnaissance have identified the following potential sources of contamination that could affect site condition:</p> <ul style="list-style-type: none"> <li>• Made ground from previous construction and demolition (on site)</li> <li>• Historic industries (off site, surrounding area)</li> <li>• Historic garage (36m west)</li> </ul>
Pollutant Linkages	Potentially complete pollutant linkages have been identified on site.

Details	Summary of Main Text
Recommendations	<p>The following elements of investigation are advised:</p> <ul style="list-style-type: none"><li>• Ground investigation to establish ground conditions and the presence of soil or groundwater contamination</li><li>• Investigation should provide site coverage</li><li>• Sample testing should include metals, PAHs, TPHCWG and asbestos</li><li>• Monitoring wells and an appropriate number of visits to confirm the presence or absence of ground gas.</li></ul> <p>Online unexploded ordnance (UXO) mapping sourced from Zetica website indicates the site lies in an area of medium to high risk of potential UXO. Under the Health and Safety at Work Act 1974 and CDM Regulations (2015) the client has a responsibility to ensure so far as reasonably practicable the health and safety of those involved in the ground investigation. To meet their health and safety duties, a preliminary UXO assessment should be commissioned by the client.</p> <p>Any intrusive works should take into account the potential for London Underground assets.</p>

## 2 General Notes

- 1 This report has been prepared by MLM Consulting Engineers Ltd (MLM) and provides available factual data for the site at the time of the study and as obtained from the sources described in the text. The data is related to the site on the basis of the site location information provided by the Client.
- 2 It should be appreciated that the desk study information is not necessarily exhaustive and that further information relevant to the site and its proposed use may be available.
- 3 The accuracy of map extracts cannot be guaranteed and it should be recognised that different conditions on site may have existed between and subsequent to the various map editions.
- 4 Any borehole data from the British Geological Survey (BGS) sources is included on the following basis: 'The British Geological Survey accept no responsibility for omissions or misinterpretations of the data from their Data Bank as this may be old or obtained from non-BGS sources and may not represent current interpretation'.
- 5 Unless stated otherwise, the identification and assessment of potential of geotechnical issues is excluded from this report, although such assessments can be undertaken by MLM on request.
- 6 The copyright in this report and other plans and documents prepared by MLM in relation to this project is owned by MLM and no such report, plan or document may be reproduced, published or adapted without their written consent. Complete copies of this report may, however, be made and distributed by the Client as an expedient in dealing with matters related to its commission.
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- 9 The data contained within a Groundsure report is subject to the copyright and database rights ownership of the Groundsure Ltd.
- 10 Ordnance Survey mapping included within a Groundsure report is protected by Crown Copyright and must not be used for any purpose outside the context of this report.
- 11 Unless stated otherwise a site walkover will only record features apparent from the ground surface in accessible and external parts of a site at the time of the visit and as the conditions safely and legally permit. The following exclusions apply:
  - a. Identification of underground structures or tanks obscured, for example, by parked vehicles, material or waste receptacles, pallets, temporary structures and any heaps or accumulations of waste or other materials;
  - b. Surveys for asbestos, ecology, identification of invasive plant species and structural or building condition;
  - c. Internal inspection of buildings;
  - d. Lifting of inspection covers or grilles;
  - e. Inspection or testing of gas, electrical, telecommunication, water supply or similar apparatus or equipment; and,
  - f. Entry into confined spaces, potentially unsafe structures or areas where there is a risk of injury or exposure to substances potentially harmful to health.

## 3 Introduction

### 3.1 General

This report has been prepared by MLM Consulting Engineers Limited (MLM) on the instructions of TP Bennett LLP (TP Bennett) on behalf of Oakwood International Investment Corporation (Oakwood), which is proposing to develop the site with a student residential scheme.

### 3.2 Terms of Reference

The terms of reference for the work were set out in the MLM proposal 775084-MLM-ZZ-XX-CP-J-0001, dated 21 February 2018.

### 3.3 Scope of Work

This Phase 1 Contamination Assessment report presents the readily available information on and addresses the following:

- Current use and condition of the site based on a site walkover
- Previous uses of the site and surroundings based on available historical mapping and data
- Environmental setting in terms of geology, hydrogeology, hydrology and surrounding land use
- Environmental data searches
- Development of a preliminary conceptual site model and identification of potential pollutant linkages
- Conclusions and recommendations

### 3.4 Technical Approach

The process of assessment adopted in this report generally follows the guidance provided in the following publications:

- Environment Agency, CLR11 Model Procedures
- Environment Agency, GPLC3 Reporting Checklist
- National Planning Policy Framework (NPPF) (2012)
- NHBC Standards Chapter 4.1 Land Quality

### 3.5 Proposed Development

It is understood that the development will comprise the construction of a new building containing approximately 70/80 student residential beds over five or six storeys with ground floor amenity spaces. No soft landscaping is proposed.

## 4 The Site

### 4.1 Location

The site is located on Stephenson Way, in the London Borough of Camden and is approximately 150m to the southwest of Euston station. The National Grid Reference for the site is 529415,182446.

A location plan of the site is presented as Figure 1.

### 4.2 Site Environmental Setting

#### 4.2.1 Geology

The geological map of the area shows the site to be underlain by the Lynch Hill Gravel Member (sand and gravel) over the London Clay Formation (clay, silt and sand).

The site is not in an area likely to be affected by radon.

#### 4.2.2 Hydrogeology

The Environment Agency website provides the following hydrogeological information:

Table 4.1 Aquifer Properties

Aspect	Designation	Description
Groundwater Source Protection Zone	No SPZ	The site is not within a catchment area where groundwater is discharged to a source.
Superficial Aquifer Designation (Lynch Hill Gravel Member)	Secondary (A) Aquifer	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.
Bedrock Aquifer Designation (London Clay Formation)	Unproductive Strata	These are deposits with low permeability that have negligible significance for water supply or river base flow.

The Groundsure report includes records of 49 groundwater abstraction licences within 2km of the site, both historic and active. The nearest active licence is 676m to the northeast and is for heat pump usage.

The Groundsure report includes records of 14 potable abstraction licences within 2km of the site, both historic and active. The nearest active licence is 1152m to the south.

#### 4.2.3 Hydrology

There are no significant surface water features within 1km of the site. A canal is located approximately 1.15km to the northeast. Ponds (part of The Regent's Park) are located approximately 1.15km to the west.

The site is not shown to be in an area likely to be affected by sea or river flooding.

The Groundsure report includes records of five abstraction licences from surface waters within 2km of the site, two of which are active. The nearest active licence is 1381m to the northeast and is for non-evaporative cooling.



## 5 Site Reconnaissance and Desk Study

### 5.1 General

A desk study has been carried out using information obtained from a Groundsure Enviro Insight report for the area commissioned by MLM; through a review of published information, information obtained from regulatory bodies and online, and a site walkover. The full Groundsure report has been included as Appendix A.

A walkover survey of the site was undertaken on 20 April 2018. Photographs taken during the walkover are presented in Appendix B.

### 5.2 Site Reconnaissance

#### 5.2.1 Site Description and Use

The 0.04 hectare site is rectangular in shape and is currently used for vehicle parking and for access to adjacent buildings off site. A small steel framed structure is located in the west and is connected to the adjacent building. It is unknown if this frame provides structural support for the off site building.

The site slopes down approximately 1.80m from the entrance in the north to the area of car parking in the east and south.

The site is surfaced by bituminous hardstanding which is cracked in places.

There are mature trees on site.

#### 5.2.2 Surrounding Land Use

The site is situated in a predominantly commercial area, with buildings adjacent to the east, south and west. Stephenson Road directly borders the site to the north, beyond which are further commercial buildings.

### 5.3 Site History

Historical maps have been obtained as part of the Groundsure Report and these are presented in Appendix A.

The historical information of relevance from within 100m of the site is presented as follows:

Table 5.1 Historical Map Summary

Map Date	On site	Surrounding Area
1870, 1873 (1:1,056), 1876 (1:2,500), 1882 (1:10,560)	Terraced buildings with outside yards occupy the site.	Terraced buildings to the south, west and east. A saw mill is 80m north. A timber yard is 86m west. Gower Street Station (underground) is 40m south. Buildings associated with a foundry are from 80m west.
1894-1895 (1:10,560), 1896 (1:1,056, 1:2,500, 1:10,560)	Shape of buildings has changed slightly.	Timber yard no longer shown. Warehouses 10m and 60m northeast. Foundry is referenced for iron. Underground railway noted 50m south.
1916 (1:2,500), 1920, 1938 (1:10,560)	No significant changes from previous edition.	Saw mill, foundry and warehouses no longer shown.

Map Date	On site	Surrounding Area
1948-1951 (1:10,560), 1951-1952, 1952-1953, 1954 (1:1,250), 1957 (1:10,560)	No significant changes from previous edition.	Buildings to the south no longer present and referenced as 'ruins'. Industries shown in the surrounding area including: <ul style="list-style-type: none"> <li>• Engineering works (10m north, 60m northeast)</li> <li>• Non-ferrous metals research works (10m northeast)</li> <li>• Printing works (30m east, 75m northeast)</li> <li>• Warehouse (50m north, 80m north, 80m southwest, 90m west)</li> <li>• Garage (36m west)</li> <li>• Cardboard box factory (60m north)</li> <li>• Chimney (25m north)</li> </ul>
1959-1962 (1:1,250)	No significant changes from previous edition.	Industries now referenced as works. Garage referenced as depot. Buildings have been constructed in areas of 'ruin' to the south.
1966-1968 (1:10,560), 1969-1973 (1:1,250), 1970 (1:2,500), 1971 (1:10,000)	Terraced buildings in eastern half have been demolished and a larger building (extending off site) is present.	Works and depot no longer referenced. Engineering works shown 10m northeast and 60m north. Bedding factory is 10m north.
1982, 1985-1986, 1986-1991 (1:1,250), 1989-1994 (1:10,000)	No significant changes from previous edition.	Building demolition and construction to west. Bedding factory and engineering works no longer referenced. Chimney no longer shown.
1991-1993 (1:1,250), 2002, 2010, 2014 (1:10,000)	Buildings on site no longer shown.	Some change in building footprint in surrounding area.

#### 5.4 Environmental Data Searches

Environmental data has been obtained for the site from a Groundsure report and from data provided by the Environment Agency and local authority or their websites. The following tables summarise these data.

Table 5.2 Historical Industrial Sites

Entry	On site	0-250m
Potentially Contaminative Uses	0	35
Historical Tank Database	0	15
Historical Energy Features Database	0	12
Historical Garage and Motor Vehicle Repairs	0	14
Potentially Infilled Land	0	1

- From 10m south/southeast: transport/railway station
- 36m west, 49m southwest: garage
- 98m west: unspecified tank
- 137m north: electricity substation
- 195m northeast: unspecified heap (potentially infilled land)

Table 5.3 Environmental Permits, Incidents and Registers

Entry	On site	0-250m
Radioactive Substances Authorisations	0	45
Recorded Pollution Incidents, List 2	0	1

- 84m northeast: University College London – keeping and use of radioactive materials (status: effective), disposal of radioactive waste (status: effective)
- 240m northeast: pollution incident (July 2001) – diesel. Water, land and air impact: Category 4 (no impact)

Table 5.4 Landfill and Other Waste Sites

Entry	On site	0-250m
No entries		

Table 5.5 Current Land Uses

Entry	On site	0-250m
Current Industrial Sites Data	0	17

- 42m south: Euston Square (underground network stations):
- 100m south: University College Hospital

Table 5.6 Hydrogeology and Hydrology

Entry	On site	0-250m
Groundwater Abstraction Licences	0	0 (49)*
Surface Water Abstraction Licences	0	0 (5)*
Potable Water Abstraction Licences	0	0 (14)*
Source Protection Zones	0	0
Source Protection Zones within Confined Aquifer	0	0
Environment Agency information on river quality	No	No
Detailed River Network entries	No	No
Surface water features	No	No

\* Figure in brackets indicates number within 251m-2km

Table 5.7 Flooding

Entry	On Site and surrounding Area
Environment Agency Zone 2 floodplains within 250m	None identified
Environment Agency Zone 3 floodplains within 250m	None identified
Risk of flooding from Rivers and the Sea on site	Very Low
Flood Defences within 250m	None identified
Flood Storage within 250m	None identified
BGS Groundwater Flooding susceptibility within 50m	Potential at surface
BGS confidence rating for Groundwater Flooding susceptibility	Moderate

Table 5.8 Designated Environmentally Sensitive Sites

Entry	On site	0-250m
No entries		

Table 5.9 Natural Hazards

Entry	On site
Maximum risk of natural ground subsidence	Moderate
Maximum Shrink-Swell hazard rating	Moderate
Maximum Landslides hazard rating	Very Low
Maximum Soluble Rocks hazard rating	Negligible
Maximum Compressible Ground hazard rating	Negligible
Maximum Collapsible Rocks hazard rating	Very Low
Maximum Running Sand hazard rating	Very Low
Radon Affected Area and percentage of homes above the Action Level	<1%
Radon Protection requirements for new properties or extensions to existing ones	None required

Table 5.10 Mining

Entry	On Site or Surrounding Area
No entries	

Table 5.11 Planning Advice Developments Near Hazardous Installations

Entry	On Site
Within Consultation Distance of hazardous installation site or pipeline	No

Table 5.12 Goad Fire Insurance Mapping

Map Date	On site	Adjacent Land within 50m
1889	Terraced buildings with small outdoor yards	Terraced buildings. Building uses noted include Upholsterers Club, Electrical instrument factory, pleating factory, Gower Street Station, Timber Stored Bast. Pianos, French Polishers, Furniture Warehouse, Upholsterers, Samuel Harris Stables, Blind factory, Paint, Laundry and workshops.
1942	referenced as 'tenements'.	Building uses noted include Hotel, Cambridge University Press Publishers, Brewers Engineers, Cabinet factory, Slate and Marble Works, Fibrous Plaster factory, Furn'e Depository ( <i>sic</i> ), Surgery, Laundry, Bookbinding, Sturtevant & Co Nickel Plating Works, British Non-Ferrous Metals Research.

Goad fire insurance mapping is available for selected towns and cities in England and Wales. These are presented in Appendix A.

Table 5.13 London Bomb Damage Maps

Map Ref	On site	Adjacent Land
49	Bomb damage recorded as: <ul style="list-style-type: none"> <li>damaged beyond repair</li> <li>seriously damaged, doubtful if repairable</li> </ul>	Multiple records of bomb damage: <ul style="list-style-type: none"> <li>damaged beyond repaid</li> <li>general blast damage (not structural)</li> <li>blast damage, minor in nature</li> </ul>

Table 5.14 Zetica Unexploded Bomb Risk Maps

Map Ref	Approximate area on and around site
London – East Central	Medium to high bomb risk

## 6 Conceptual Site Model

### 6.1 General

This section presents a Conceptual Site Model (CSM) and identifies potential pollutant linkages present at the site in the context of the proposed site use and development.

The process involves the identification of sources based on historical mapping, data searches and site walkover, together with identification of the associated exposure pathways and human or environmental receptors.

### 6.2 Potential Sources of Contamination

Based on the information presented in the previous sections, potential sources of contamination that could impact on receptors have been identified and are summarised in tables 6.1 and 6.2 below.

Table 6.1 Potential Sources of Contamination – On Site

Source	Location	Activity	Potential Contaminants	Soil	Water	Gas
Made ground	Whole site	Previous construction and demolition	Metals, PAHs, asbestos, ground gas	✓	✓	✓

It should be noted that the site is recorded to have had significant bomb damage and is an area classified with medium to high UXO risk.

Table 6.2 Potential Sources of Contamination – Off Site

Source	Location	Activity	Potential Mobile Contaminants	Soil	Water	Gas
Historic industries including: saw mill, timber yard, iron foundry, warehouses, engineering works, printing works, various factories, French polishers, 'paint', laundry, workshops, nickel plating works	Surrounding area, from 10m	Various industrial activities. Possible fuel storage.	Hydrocarbons, hydrocarbon vapours, solvents, metals		✓	✓
Historic garage	36m west	Vehicle servicing, storage of fuel	Hydrocarbons, hydrocarbon vapours, BTEX		✓	✓

### 6.3 Potential Pollutant Linkages

Table 6.3 below presents a review of potential exposure pathways and receptors that could exist at the site or nearby, whether or not a source of contamination has been identified.

Table 6.3 Potential Sources, Pathways and Receptors

Receptor	Pathway	Justification	Pollutant Linkage
<b>Human Health</b>			
Future site users	Dermal contact, ingestion or fugitive inhalation of soil and dust or groundwater	The proposed scheme is for student residential apartments. It is understood that no soft landscaping areas are included on current development plans and the building occupies the entire site.	✘
	Migration in permeable strata and inhalation of gas and/or organic vapour	A new building is proposed. Made ground from previous development is a potential source of ground gas. The most recent construction indicated on historical maps is by 1966. Any associated made ground is therefore expected to be more than 50 years old and unlikely to be a significant source of ground gas.	✘
	Migration in permeable strata, accumulation and risk of explosion		✘
Adjacent site users	Ingestion/inhalation of windblown dust	Commercial buildings are adjacent. Neighbouring site uses could be exposed to potentially contaminated soil dust during dry conditions in the construction phase.	✓
Construction workers and services repair staff	Dermal contact, ingestion or fugitive inhalation of soil and dust or groundwater	On site sources: site workers could be exposed to potentially contaminated soils when working in excavations etc. Exposure period will be short term.	✓
<b>Development</b>			
Future plant life	Plant uptake in garden or landscape area	The proposed scheme is for a student residential apartments. It is understood that no landscaping areas are included on current development plans and the building occupies the entire site.	✘
Water supply pipes	Contact with contaminated material	New services will be constructed below ground. Plastic potable water supply pipes laid through potentially contaminated ground could be permeated by organic compounds and affect drinking water quality.	✓
<b>Environment</b>			
Surface water (canal 1.15km northeast, ponds 1.15km west)	Surface runoff	Site slopes down from north to south but there are no watercourses nearby. The site and surrounding area is served by the local drainage network, which will intercept any surface run-off.	✘

Receptor	Pathway	Justification	Pollutant Linkage
	Groundwater movement	The permeable superficial deposits of the Lynch Gravel Member are not recorded on geological maps further than approximately 150m north or 500m west of the site. Consequently, it is not anticipated that there is hydraulic connection between groundwater beneath site and surface water receptors. The site has been capped with hardstanding, which will have reduce leaching of contaminants in soil into the underlying geology.	✘
Superficial aquifer (Lynch Hill Gravel Member)	Leaching from soil or vertical fluid movement	The site has been capped with hardstanding, which will have helped reduce leaching into the underlying aquifers. Superficial deposits are classified as a Secondary (A) Aquifer and are recorded to be present directly beneath the made ground on site.	✓
Bedrock aquifer (London Clay Formation)	Leaching from soil or vertical fluid movement	The bedrock aquifer is classified as Unproductive Strata and therefore is not considered to be a controlled water receptor at significant risk from contamination.	✘



## 7 Summary and Recommendations

### 7.1 Summary

The 0.04 hectare site is rectangular in shape and is currently vacant. It slopes down approximately 1.80m from the north to the south and is used for car parking and access to adjacent properties. There is a steel frame on site which is connected to the adjacent building to the west.

Mature trees are also present on site.

Historical maps show terraced buildings on site pre-1870. London bomb damage maps (1939-1945) record bomb damage (beyond repair/seriously damaged). By 1966 the terraced buildings in the eastern half were demolished and replaced with a larger building extending off site. By 1991 the buildings across site are not shown.

The geological map of the area shows the site to be underlain by the Lynch Hill Gravel Member (Superficial (A) Aquifer) over the London Clay Formation (Unproductive Strata). The site is not within a groundwater source protection zone. The site is not in an area affected by radon.

There are no significant surface water features within 1km of the site. A canal is located approximately 1.15km to the northeast. Ponds (part of The Regent's Park) are located approximately 1.15km to the west.

The desk study and site reconnaissance have identified potential sources of contamination as follows:

- Made ground from previous construction and demolition (on site)
- Historic industries (off site, surrounding area)
- Historic garage (36m west)

Potentially complete pollutant linkages have been identified on site.

### 7.2 Recommendations

The following elements of investigation are advised:

- Ground investigation to establish ground conditions and the presence of soil or groundwater contamination
- Investigation should provide site coverage
- Sample testing should include metals, PAHs, TPHCWG and asbestos
- Monitoring wells and an appropriate number of visits to confirm presence or absence of ground gas.

Online unexploded ordnance (UXO) mapping sourced from Zetica website indicates the site lies in an area of medium to high risk of potential UXO. Under the Health and Safety at Work Act 1974 and CDM Regulations (2015) the client has a responsibility to ensure so far as reasonably practicable the health and safety of those involved in the ground investigation. To meet their health and safety duties, a preliminary UXO assessment should be commissioned by the client.

Any intrusive works should take into account the potential for London Underground assets.

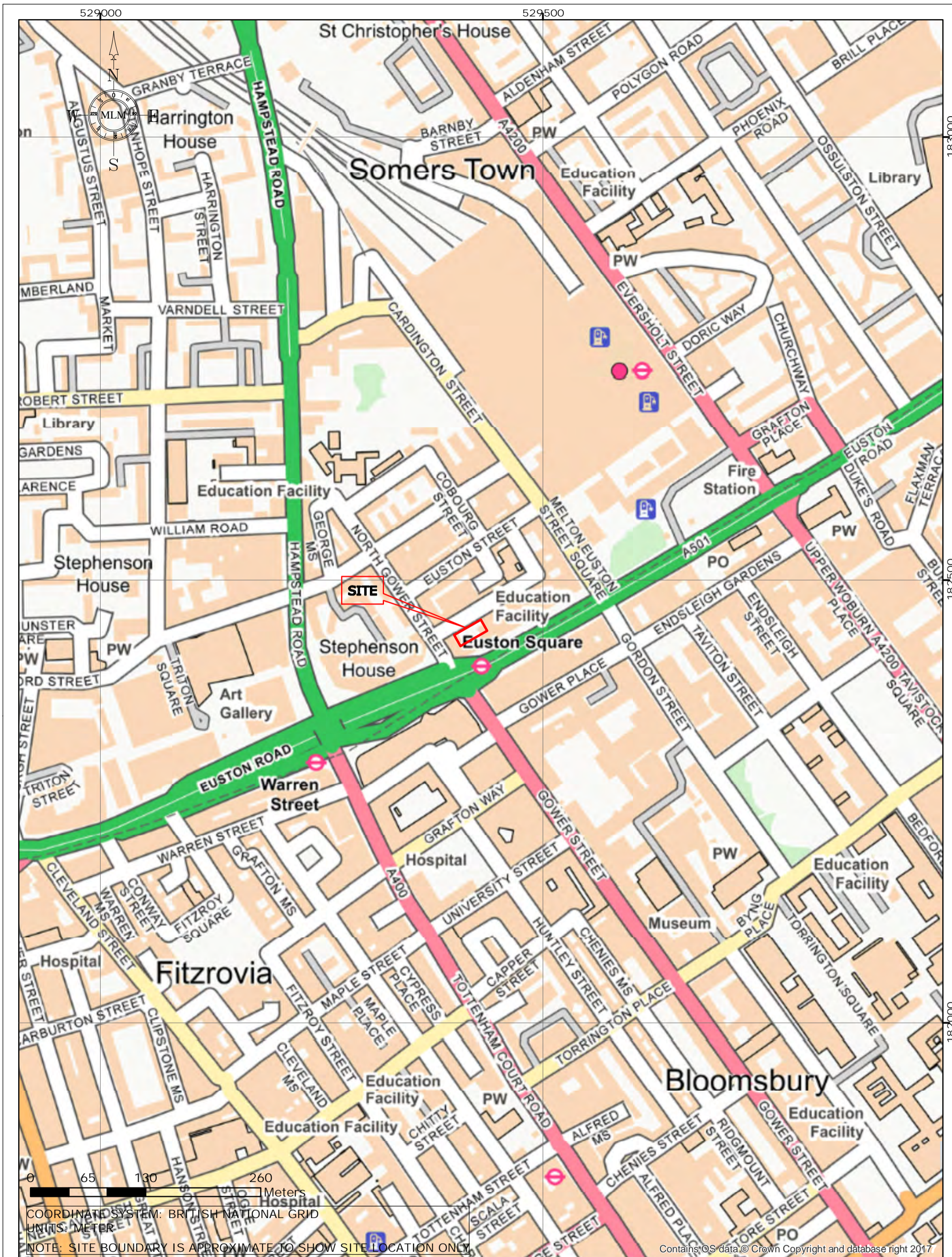
## 8 References


- 1 Environment Agency (2004) Model Procedures for the Management of Land Contamination Contaminated Land Report 11 (CLR11)
- 2 Environment Agency (2010) GPLC1 – Guiding Principles for Land Contamination
- 3 NHBC Standards (2011) Part 4 Foundations – Chapter 4.1 Land Quality: Managing Ground Conditions
- 4 National Planning Policy Framework (NPPF) (2012)
- 5 British Geological Survey (2006) Sheet 256 North London. 1:50,000 scale, Solid and Drift Edition
- 6 Groundsure Enviroinsight Report Ref: GS-4887398 (16/04/2018)
- 7 Groundsure Historical Maps (all scales) Report Ref: GS-4887399 (16/04/2018)
- 8 Groundsure Fire Insurance Maps Ref: GS-4887400 (16/04/2018)
- 9 HSE Report Ref. HSL-180417113432-394 (17/04/2018)
- 10 London Topographical Society and London Metropolitan Archives (2005) The London County Council Bomb Damage Maps 1939-1945

# Figures

Figure 1: Site Location Plan





	PROJECT		STEPHENSON WAY, EUSTON		MADE	AC	CHECKED	MK	
	SITE LOCATION PLAN		MLM REF.		775084		SUITABILITY	S2	REVISION
PROJECT	ORIGINATOR	VOLUME/SYSTEM	LEVELS/LOCATIONS	TYPE	ROLE	NUMBER			
775084	MLM	ZZ	XX	DR	J	FIG 1			



## Appendix A - Groundsure Report



# Groundsure

LOCATION INTELLIGENCE

MLM  
7200, BEACH DRIVE,  
CAMBRIDGE, CB25 9TL

Groundsure Reference: GS-4887398

Your Reference: 775084

Report Date 16 Apr 2018

Report Delivery Method: Email - pdf

## Enviro Insight

Address: STEPHENSON WAY, LONDON, NW1 2HD

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviro Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,

Managing Director  
Groundsure Limited

Enc.  
Groundsure Enviroinsight

**Address:** STEPHENSON WAY, LONDON, NW1 2HD  
**Date:** 16 Apr 2018  
**Reference:** GS-4887398  
**Client:** MLM

NW

N

NE

W

E



SW

S

SE

**Aerial Photograph Capture date:** 07-Jun-2015  
**Grid Reference:** 529415,182446  
**Site Size:** 0.04ha

**Report Reference:** GS-4887398  
**Client Reference:** 775084

# Contents Page

Contents Page	3
Overview of Findings	6
Using this report	10
1. Historical Land Use	11
1. Historical Industrial Sites	12
1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping	12
1.2 Additional Information – Historical Tank Database	14
1.3 Additional Information – Historical Energy Features Database	14
1.4 Additional Information – Historical Petrol and Fuel Site Database	16
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	16
1.6 Potentially Infilled Land	17
2. Environmental Permits, Incidents and Registers Map	18
2. Environmental Permits, Incidents and Registers	19
2.1 Industrial Sites Holding Licences and/or Authorisations	19
2.1.1 Records of historic IPC Authorisations within 500m of the study site	19
2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site	19
2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site	19
2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site	19
2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site	19
2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site	20
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	20
2.1.8 Records of Licensed Discharge Consents within 500m of the study site	28
2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site	28
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	28
2.2 Dangerous or Hazardous Sites	28
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents	29
2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site	29
2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site	29
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	29
3. Landfill and Other Waste Sites Map	30
3. Landfill and Other Waste Sites	31
3.1 Landfill Sites	31
3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site	31
3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site	31
3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site	31
3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site	31
3.2 Other Waste Sites	31
3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site	31
3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site	32
4. Current Land Use Map	34
4. Current Land Uses	35
4.1 Current Industrial Data	35
4.2 Petrol and Fuel Sites	36
4.3 National Grid High Voltage Underground Electricity Transmission Cables	36
4.4 National Grid High Pressure Gas Transmission Pipelines	36



5. Geology	37
5.1 Artificial Ground and Made Ground.....	37
5.2 Superficial Ground and Drift Geology .....	37
5.3 Bedrock and Solid Geology .....	37
6 Hydrogeology and Hydrology	38
6a. Aquifer Within Superficial Geology	38
6b. Aquifer Within Bedrock Geology and Abstraction Licences	39
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licences	40
6d. Hydrogeology – Source Protection Zones within confined aquifer	41
6e. Hydrology – Watercourse Network and River Quality	42
6.Hydrogeology and Hydrology	43
6.1 Aquifer within Superficial Deposits.....	43
6.2 Aquifer within Bedrock Deposits.....	43
6.3 Groundwater Abstraction Licences.....	44
6.4 Surface Water Abstraction Licences.....	51
6.5 Potable Water Abstraction Licences.....	52
6.6 Source Protection Zones.....	54
6.7 Source Protection Zones within Confined Aquifer.....	54
6.8 Groundwater Vulnerability and Soil Leaching Potential.....	55
6.9 River Quality.....	55
6.9.1 Biological Quality:.....	55
6.9.2 Chemical Quality:.....	55
6.10 Ordnance Survey MasterMap Water Network.....	55
6.11 Surface Water Features.....	55
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)	56
7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map	57
7 Flooding	58
7.1 River and Coastal Zone 2 Flooding.....	58
7.2 River and Coastal Zone 3 Flooding.....	58
7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating.....	58
7.4 Flood Defences.....	58
7.5 Areas benefiting from Flood Defences.....	58
7.6 Areas benefiting from Flood Storage.....	59
7.7 Groundwater Flooding Susceptibility Areas.....	59
7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Identified.....	59
7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?.....	59
7.8 Groundwater Flooding Confidence Areas.....	59
8. Designated Environmentally Sensitive Sites Map	60
8. Designated Environmentally Sensitive Sites	61
8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:.....	61
8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:.....	61
8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:.....	61
8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:.....	61
8.5 Records of Ramsar sites within 2000m of the study site:.....	61
8.6 Records of Ancient Woodland within 2000m of the study site: .....	62
8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:.....	62
8.8 Records of World Heritage Sites within 2000m of the study site:.....	62
8.9 Records of Environmentally Sensitive Areas within 2000m of the study site: .....	62

8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site: .....	62
8.11 Records of National Parks (NP) within 2000m of the study site: .....	62
8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:.....	63
8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:.....	63
8.14 Records of Green Belt land within 2000m of the study site:.....	63
<b>9. Natural Hazards Findings</b>	<b>64</b>
9.1 Detailed BGS GeoSure Data.....	64
9.1.1 Shrink Swell.....	64
9.1.2 Landslides.....	64
9.1.3 Soluble Rocks.....	64
9.1.4 Compressible Ground.....	65
9.1.5 Collapsible Rocks.....	65
9.1.6 Running Sand.....	65
9.2 Radon.....	66
9.2.1 Radon Affected Areas.....	66
9.2.2 Radon Protection.....	66
<b>10. Mining</b>	<b>67</b>
10.1 Coal Mining.....	67
10.2 Non-Coal Mining.....	67
10.3 Brine Affected Areas .....	67
Contact Details	68
Standard Terms and Conditions	70

# Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

<b>Section 1: Historical Industrial Sites</b>	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	0	4	31	41
1.2 Additional Information – Historical Tank Database	0	0	15	6
1.3 Additional Information – Historical Energy Features Database	0	0	12	47
1.4 Additional Information – Historical Petrol and Fuel Site Database	0	0	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	0	2	12	37
1.6 Potentially Infilled Land	0	0	1	1

<b>Section 2: Environmental Permits, Incidents and Registers</b>	On-site	0-50m	51-250	251-500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
2.1.1 Records of historic IPC Authorisations	0	0	0	0
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
2.1.3 Records of Red List Discharge Consents	0	0	0	0
2.1.4 Records of List 1 Dangerous Substances Inventory sites	0	0	0	0
2.1.5 Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	0	0	0	3
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	45	16
2.1.8 Records of Licensed Discharge Consents	0	0	0	0
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHHS sites	0	0	0	0
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	0	1	1
2.3.2 National Incidents Recording System, List 1	0	0	0	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
<b>3.1 Landfill Sites</b>						
3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites	0	0	0	0	0	0
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	0	0
<b>3.2 Landfill and Other Waste Sites Findings</b>						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	0	0	1	9

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	0	1	16	Not searched
4.2 Records of Petrol and Fuel Sites	0	0	0	0
4.3 National Grid Underground Electricity Cables	0	0	0	0
4.4 National Grid Gas Transmission Pipelines	0	0	0	0

Section 5: Geology	
5.1 Are there any records of Artificial Ground and Made Ground present beneath the study site?	None identified
5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?	Identified
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 6: Hydrogeology and Hydrology	0-500m					
6.1 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site?	Identified					
6.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site?	Identified					
	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	0	0	9	40
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	5
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	14
6.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	Not searched	Not searched
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	1	0	0	0	Not searched	Not searched

## Section 6: Hydrogeology and Hydrology

0-500m

	On-site	0-50m	51-250	251-500	501-1000	1000-1500
6.9 Is there any Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site?	No	No	No	No	No	No
6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site	0	0	0	0	Not searched	Not searched
6.11 Surface water features within 250m of the study site	No	No	No	Not searched	Not searched	Not searched

## Section 7: Flooding

7.1 Are there any Environment Agency Zone 2 floodplains within 250m of the study site?	None identified					
7.2 Are there any Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site	None identified					
7.3 What is the Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site?	Very Low					
7.4 Are there any Flood Defences within 250m of the study site?	None identified					
7.5 Are there any areas benefiting from Flood Defences within 250m of the study site?	None identified					
7.6 Are there any areas used for Flood Storage within 250m of the study site?	None identified					
7.7 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Potential at Surface					
7.8 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	Moderate					

## Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	0	0	0	0
8.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	1
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0

## Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
8.11 Records of National Parks	0	0	0	0	0	0
8.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
8.13 Records of Nitrate Vulnerable Zones	0	0	0	0	0	0
8.14 Records of Green Belt land	0	0	0	0	0	0

## Section 9: Natural Hazards

9.1 What is the maximum risk of natural ground subsidence?

Moderate

9.1.1 What is the maximum Shrink-Swell hazard rating identified on the study site?

Moderate

9.1.2 What is the maximum Landslides hazard rating identified on the study site?

Very Low

9.1.3 What is the maximum Soluble Rocks hazard rating identified on the study site?

Negligible

9.1.4 What is the maximum Compressible Ground hazard rating identified on the study site?

Negligible

9.1.5 What is the maximum Collapsible Rocks hazard rating identified on the study site?

Very Low

9.1.6 What is the maximum Running Sand hazard rating identified on the study site?

Very Low

9.2 Radon

9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?

The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?

No radon protective measures are necessary.

## Section 10: Mining

10.1 Are there any coal mining areas within 75m of the study site?

None identified

10.2 Are there any Non-Coal Mining areas within 50m of the study site boundary?

None identified

10.3 Are there any brine affected areas within 75m of the study site?

None identified

# Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

## 1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

## 2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

## 3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

## 4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

## 5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

## 6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licenses, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

## 7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

## 8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

## 9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

## 10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

## 11. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

### Note: Maps

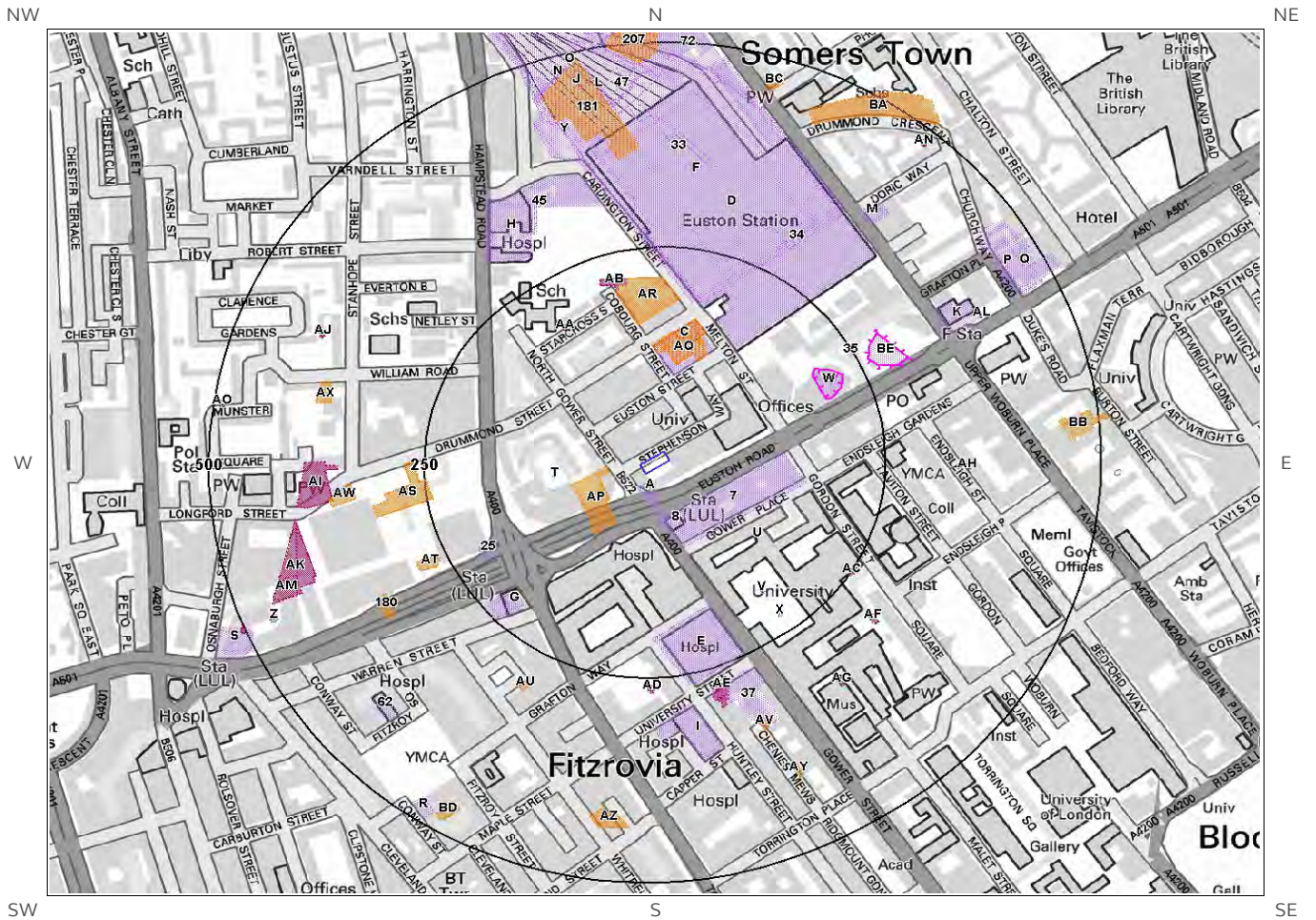
Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.



# 1. Historical Land Use



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# 1. Historical Industrial Sites

## 1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 76

ID	Distance [m]	Direction	Use	Date
1A	10	SE	London Transport Station	1973
2A	10	SE	London Transport Station	1968
3A	12	S	Unspecified Station	1948
4B	21	S	Unspecified Station	1894
5B	51	SE	Electricity Railway Station	1920
6B	51	SE	Unspecified Station	1938
7	56	SE	Unspecified Station	1882
8	59	SE	London Transport Station	1989
9AQ	92	N	Electricity Railway Station	1948
10C	131	N	Unspecified Station	1920
11C	131	N	Unspecified Station	1938
12D	154	NE	Railway Station	1973
13D	154	NE	Railway Station	1989
14E	177	SE	Hospital	1948
15E	177	SE	Hospital	1957
16E	178	S	Hospital	1938
17E	178	S	Hospital	1920
18F	184	N	Railway Station	1894
19F	184	N	Railway Station	1911
20F	185	N	Railway Station	1920
21F	185	N	Railway Station	1938
22F	186	N	Terminus Station	1957
23F	186	N	Terminus Station	1948
24F	192	N	Railway Station	1968
25	193	SW	Electricity Railway Station	1920
26W	195	NE	Unspecified Heap	1894
27G	207	SW	London Transport Station	1989
28G	215	SW	London Transport Station	1968
29G	215	SW	London Transport Station	1973
30G	216	SW	Electricity Railway Station	1948
31G	223	SW	Unspecified Station	1920
32G	223	SW	Unspecified Station	1938
33	228	N	Railway Station	1882
34	243	NE	Railway Buildings	1882

35	244	NE	Unspecified Tank	1989
36BE	262	NE	Unspecified Heap	1894
37	266	SE	Hospital	1989
38H	283	NW	Hospital	1989
39H	283	NW	Hospital	1968
40H	283	NW	Hospital	1973
41I	285	S	Hospital	1968
42H	286	NW	Hospital	1938
43H	286	NW	Hospital	1920
44I	288	S	Hospital	1973
45	305	NW	Hospital	1894
46H	308	NW	Hospital	1911
47	351	N	Railway Sidings	1882
48J	355	N	Railway Sidings	1968
49J	355	N	Railway Sidings	1957
50J	355	N	Railway Sidings	1948
51K	357	NE	Fire Station	1968
52K	357	NE	Fire Station	1989
53K	357	NE	Fire Station	1957
54K	357	NE	Fire Station	1973
55L	362	N	Railway Sidings	1989
56L	362	N	Railway Sidings	1973
57M	366	NE	Unspecified Station	1938
58M	366	NE	Unspecified Station	1920
59N	367	N	Railway Sidings	1938
60N	367	N	Railway Sidings	1920
61M	370	NE	Electricity Railway Station	1948
62	406	SW	Hospital	1989
63O	425	N	Railway Sidings	1894
64O	429	N	Railway Sidings	1911
65P	444	NE	Hospital	1920
66P	444	NE	Hospital	1938
67P	451	NE	Hospital	1948
68P	452	NE	Hospital	1894
69Q	456	NE	Hospital	1968
70Q	456	NE	Hospital	1989
71Q	456	NE	Hospital	1973
72	467	N	Railway Building	1882
73R	472	SW	Hospital	1973
74R	472	SW	Hospital	1989
75S	493	SW	Hospital	1894
76S	496	SW	Hospital	1911

## 1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary:

21

ID	Distance (m)	Direction	Use	Date
77T	98	W	Unspecified Tank	1999
78T	98	W	Unspecified Tank	1991
79T	98	W	Unspecified Tank	1982
80U	136	SE	Unspecified Tank	1970
81U	136	SE	Unspecified Tank	1952
82U	136	SE	Unspecified Tank	1951
83U	136	SE	Unspecified Tank	1961
84U	136	SE	Unspecified Tank	1961
85V	189	SE	Unspecified Tank	1916
86V	192	SE	Unspecified Tank	1952
87V	192	SE	Unspecified Tank	1970
88W	208	NE	Unspecified Tank	1876
89X	225	SE	Unspecified Tank	1916
90X	226	SE	Unspecified Tank	1970
91X	226	SE	Unspecified Tank	1952
92Y	407	N	Unspecified Tank	1952
93Y	408	N	Unspecified Tank	1952
94Z	459	SW	Unspecified Tank	1970
95Z	460	SW	Unspecified Tank	1968
96Z	460	SW	Unspecified Tank	1982
97Z	460	SW	Unspecified Tank	1991

## 1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary:

59

ID	Distance (m)	Direction	Use	Date
98C	137	N	Electricity Substation	1952
99C	138	N	Electricity Substation	1952
100AA	186	NW	Electricity Substation	1969
101AA	186	NW	Electricity Substation	1985
102AA	187	NW	Electricity Substation	1991

103AA	187	NW	Electricity Substation	1970
104AB	204	N	Electricity Substation	1952
105AB	204	N	Electricity Substation	1952
106AC	248	SE	Electricity Substation	1991
107AC	248	SE	Electricity Substation	1977
108AC	249	SE	Electricity Substation	1993
109AC	249	SE	Electricity Substation	1996
110AD	259	S	Electricity Substation	1970
111AD	259	S	Electricity Substation	1969
112AD	260	S	Electricity Substation	1982
113AD	260	S	Electricity Substation	1952
114AD	260	S	Electricity Substation	1951
115AE	272	S	Electricity Substation	1991
116AE	273	S	Electricity Substation	1985
117AE	286	S	Electricity Substation	1993
118AE	286	S	Electricity Substation	1999
119AF	295	SE	Electricity Substation	1993
120AF	295	SE	Electricity Substation	1996
121AG	330	SE	Electricity Substation	1952
122AG	330	SE	Electricity Substation	1951
123AH	341	E	Electricity Substation	1996
124AH	341	E	Electricity Substation	1993
125AH	342	E	Electricity Substation	1991
126AI	351	W	Electricity Substation	1952
127AI	351	W	Electricity Substation	1951
128AJ	398	NW	Electricity Substation	1991
129AJ	398	NW	Electricity Substation	1970
130AJ	398	NW	Electricity Substation	1969
131AJ	398	NW	Electricity Substation	1985
132AK	399	W	Electricity Board Depot	1970
133AK	399	W	Electricity Board Depot	1969
134AK	400	W	Electricity Board Depot	1982
135AL	400	NE	Electricity Substation	1969
136AL	401	NE	Electricity Substation	1970
137AK	404	W	Electricity Board Depot	1968
138AM	420	W	Electricity Board Depot	1982
139AM	420	W	Electricity Board Depot	1991
140AN	479	NE	Electricity Substation	1992
141AN	479	NE	Electricity Substation	1986
142AN	479	NE	Electricity Substation	1991
143AN	479	NE	Electricity Substation	1993
144AN	479	NE	Electricity Substation	1997
145AN	479	NE	Electricity Substation	1992
146AN	480	NE	Electricity Substation	1969
147AN	481	NE	Electricity Substation	1970
148AO	488	W	Electricity Substation	1968

149AO	489	W	Electricity Substation	1970
150AO	490	W	Electricity Substation	1991
151AO	490	W	Electricity Substation	1990
152S	499	SW	Electricity Substation	1982
153S	499	SW	Electricity Substation	1991
154S	499	SW	Electricity Substation	1970
155S	499	SW	Electricity Substation	1968
156S	499	SW	Electricity Substation	1993

### 1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 0

Database searched and no data found.

### 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 51

ID	Distance (m)	Direction	Use	Date
157AP	36	W	Garage	1951
158AP	49	SW	Garage	1952
159AQ	107	N	Garage	1985
160C	107	N	Garage	1969
161C	107	N	Garage	1952
162C	107	N	Garage	1991
163C	108	N	Garage	1959
164C	108	N	Garage	1952
165C	108	N	Garage	1970
166AR	158	N	Garages	1952
167AR	158	N	Garages	1952
168AS	243	W	Garage	1952
169AS	244	W	Garage	1962
170AS	244	W	Garage	1951
171AT	258	SW	Garage	1952
172AT	260	SW	Garage	1951
173AU	286	SW	Garage	1952
174AU	286	SW	Garage	1951

175AV	327	SE	Garages	1951
176AV	327	SE	Garages	1952
177AW	331	W	Garage	1985
178AW	332	W	Garage	1982
179AW	332	W	Garage	1991
180	334	SW	Garage	1916
181	362	N	Carriage Shed	1876
182AX	366	W	Garage	1952
183AX	367	W	Garage	1952
184AY	396	SE	Garage	1951
185AY	396	SE	Garages	1952
186AZ	411	S	Garages	1952
187AZ	411	S	Garage	1951
188BA	435	NE	Garage	1952
189BA	435	NE	Garage	1952
190BA	435	NE	Garage	1952
191BA	438	NE	Garage	1952
192BB	453	E	Garages	1951
193BB	457	E	Garages	1952
194BC	458	N	Garage	1997
195BC	458	N	Garage	1992
196BC	458	N	Garage	1993
197BC	459	N	Garage	1969
198BD	459	SW	Garages	1952
199BC	459	N	Garage	1986
200BC	459	N	Garage	1991
201BC	459	N	Garage	1992
202BD	459	SW	Garage	1951
203BC	460	N	Garage	1970
204BB	474	E	Garages	1952
205BB	474	E	Garages	1952
206BB	474	E	Garages	1952
207	475	N	Carriage Shed	1876

## 1.6 Potentially Infilled Land

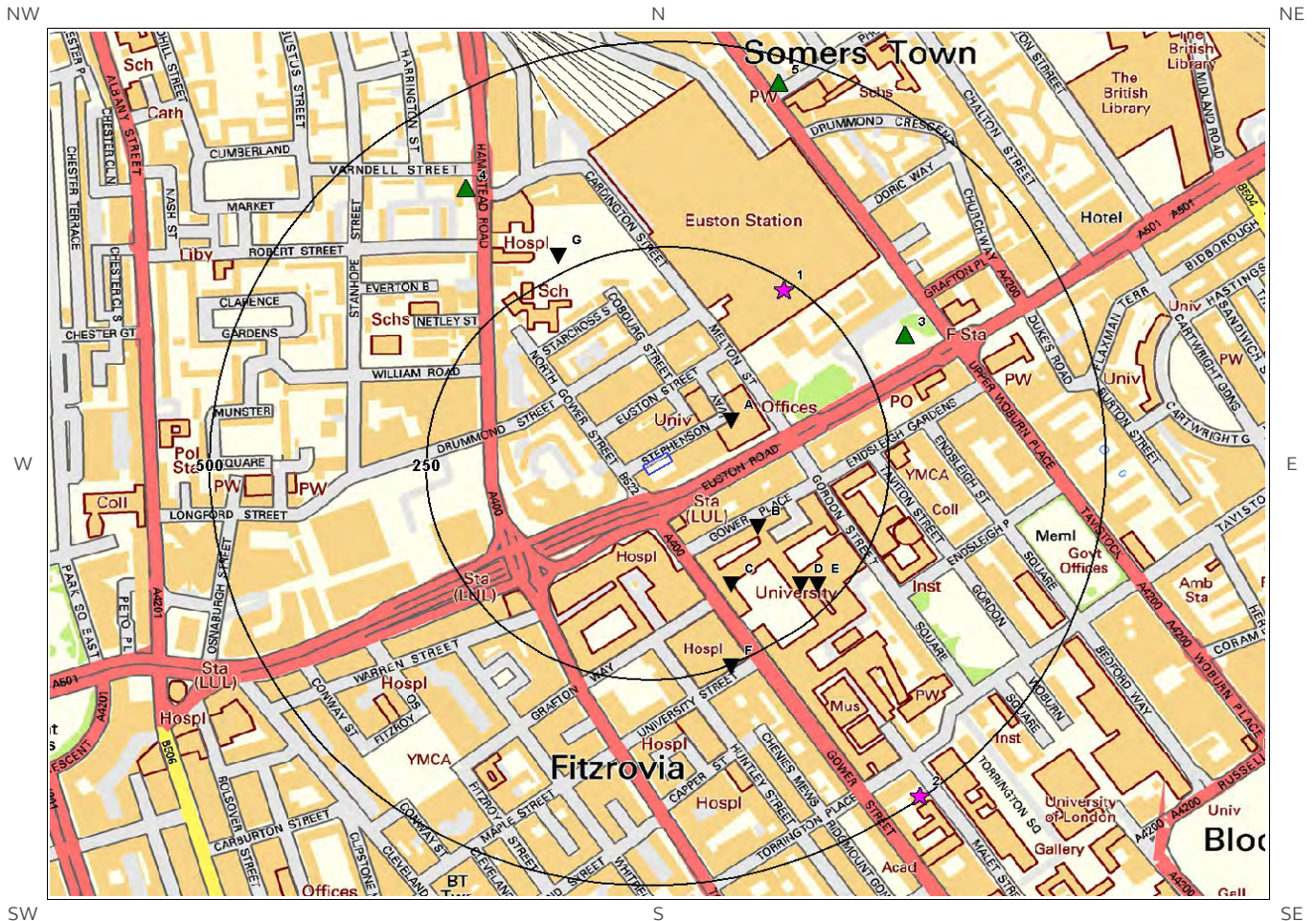
Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 2

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:


ID	Distance(m)	Direction	Use	Date
208W	195	NE	Unspecified Heap	1894
209BE	262	NE	Unspecified Heap	1894



# 2. Environmental Permits, Incidents and Registers Map



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- |   |                               |   |  |   |   |
|---|-------------------------------|---|--|---|---|
|  | Site Outline                  |  | Recorded Pollution Incident                                    |  | RAS 3 & 4 Authorisations                      |
|  | Dangerous Substances (List 1) |  | Part A(1) Authorised Processes and Historic IPC Authorisations |  | Part A(2) and Part B Authorised Processes     |
|  | Dangerous Substances (List 2) |  | Water Industry Referrals                                       |  | COMAH / NIHS Sites                            |
|  | Licensed Discharge Consents   |  | Sites Determined as Contaminated Land                          |  | Hazardous Substance Consents and Enforcements |
|  | Red List Discharge Consents   |   |  |   |   |

# 2. Environmental Permits, Incidents and Registers

## 2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency/Natural Resources Wales and Local Authorities reveal the following information:

### 2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

---

### 2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

---

### 2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

### 2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

---

### 2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

---



## 2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

3

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
3	308	NE	529699 182601	Address: Cyma, Euston Rd, Euston Square, NW1 8AJ Process: Petrol Vapour Recovery Process Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
4	393	NW	529193 182780	Address: BP Euston, 142 Hampstead Road, London, NW1 2PT Process: Unloading of Petrol into Storage at Service Stations Status: Revoked Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
5	466	N	529554 182906	Address: Avis Rent-a-Car Ltd, 88 Eversholt Street, London, NW1 1BP Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified

## 2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

61

The following RAS Licence (3 or 4) records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Address	Operator	Type	Permis sion Number	Dates	Status
67A	84	NE	529500 182500	University College London, Wolfson House, 4 Stephenson Way, London, NW1 2HE	Universit y College London	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	BY1905	Date of Approval: 9/11/2004 Effective from: 9/11/2004 Last date of update: 2015-01-01	Effective
68A	84	NE	529500 182500	University College London, Wolfson House, 4 Stephenson Way, London, NW1 2HE	Universit y College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	BY1891	Date of Approval: 9/11/2004 Effective from: 7/12/2004 Last date of update: 2015-01-01	Superseded By Variation
69A	84	NE	529500 182500	University College London, Wolfson House, 4 Stephenson Way, London, NW1 2HE	Universit y College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	BY1891	Date of Approval: 4/1/2006 Effective from: 4/1/2006 Last date of update: 2015-01-01	Effective

ID	Distance (m)	Direction	NGR	Address	Operator	Type	Permission Number	Dates	Status
70B	125	SE	529530 182370	Novartis Institute For Medical Sciences, 5 Gower Place, London, WC1E 6BN	Novartis Institute For Medical Sciences	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AY8280	Date of Approval:1/12/2003 Effective from:1/1/2004 Last date of update:2015-01-01	Revoked/cancelled
71B	125	SE	529530 182370	Novartis Institute For Medical Sciences, 5 Gower Place, London, WC1E 6BN	Novartis Institute For Medical Sciences	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	BG6367	Date of Approval:29/11/1999 Effective from:29/11/1999 Last date of update:2015-01-01	Revoked/cancelled
72B	125	SE	529530 182370	Novartis Institute For Medical Sciences, 5 Gower Place, London, WC1E 6BN	Novartis Institute For Medical Sciences	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AY8280	Date of Approval:8/8/1997 Effective from:5/9/1997 Last date of update:2015-01-01	Superseded By Variation
73B	125	SE	529530 182370	Novartis Institute For Medical Sciences, 5 Gower Place, London, WC1E 6BN	Novartis Institute For Medical Sciences	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AY8280	Date of Approval:- Effective from:- Last date of update:2006-01-06	Valid
74C	162	SE	529500 182300	Tyco Healthcare (uk) Limited, University College Hospital,235 Euston Road, London, NW1 2BU	Tyco Healthcare (uk) Limited	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	BZ4284	Date of Approval:- Effective from:- Last date of update:2005-07-01	Valid
75C	162	SE	529500 182300	University College London Hospitals Nhs Foundation Trust, University College Hospital,235 Euston Road, London, NW1 2BU	University College London Hospitals Nhs Foundation Trust	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	BY8675	Date of Approval:- Effective from:- Last date of update:2005-04-01	Valid
76D	209	SE	529580 182300	Eisai Limited, Bernard Katz Building, University College London, Gower Street, London, WC1E 6BT	Eisai Limited	Disposal Of Radioactive Waste (was Rsa60 Section 6).	CE0443	Date of Approval:22/10/2009 Effective from:19/11/2009 Last date of update:2015-01-01	Revoked/cancelled
77D	209	SE	529580 182300	Eisai London Research Laboratories Ltd, Bernard Katz Building,university College London,gower Street, London, WC1E 6BT	Eisai London Research Laboratories Ltd	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AP8276	Date of Approval:20/4/1995 Effective from:24/4/1995 Last date of update:2015-01-01	Revoked/cancelled

ID	Distance (m)	Direction	NGR	Address	Operator	Type	Permission Number	Dates	Status
78D	209	SE	529580 182300	Eisai London Research Laboratories Ltd, Bernard Katz Building, University College London, Gower Street, London, WC1E 6BT	Eisai London Research Laboratories Ltd	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AP8284	Date of Approval:9/12/2005 Effective from:9/12/2005 Last date of update:2015-01-01	Revoked/cancelled
79D	209	SE	529580 182300	Eisai London Research Laboratories Ltd, Bernard Katz Building, University College London, Gower Street, London, WC1E 6BT	Eisai London Research Laboratories Ltd	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AP8284	Date of Approval:1/12/2003 Effective from:1/1/2004 Last date of update:2015-01-01	Superseded By Variation
80D	209	SE	529580 182300	Eisai Limited, Bernard Katz Building, University College London, Gower Street, London, WC1E 6BT	Eisai Limited	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	CE0427	Date of Approval:22/10/2009 Effective from:22/10/2009 Last date of update:2015-01-01	Revoked/cancelled
81D	209	SE	529580 182300	Eisai London Research Laboratories Ltd, Bernard Katz Building, University College London, Gower Street, London, WC1E 6BT	Eisai London Research Laboratories Ltd	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AP8284	Date of Approval:27/4/1995 Effective from:25/5/1995 Last date of update:2015-01-01	Superseded By Variation
82E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	BM6433	Date of Approval:25/7/2002 Effective from:22/8/2002 Last date of update:2015-01-01	Superseded By Variation
83E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AC7952	Date of Approval:25/6/1997 Effective from:21/7/1997 Last date of update:2015-01-01	Superseded By Variation
84E	224	SE	529600 182300	University College London, Premises Centred On Gower Street, London, WC1E 6BT	University College London	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AA0116	Date of Approval:28-1-1992 Effective from:28-1-1992 Last date of update:2005-01-06	Superseded By Variation
85E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AD9748	Date of Approval:14/8/1995 Effective from:8/9/1995 Last date of update:2015-01-01	Superseded By Variation

ID	Distance (m)	Direction	NGR	Address	Operator	Type	Permission Number	Dates	Status
86E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AD9748	Date of Approval:31/3/1991 Effective from:31/3/1991 Last date of update:2015-01-01	Superseded By Variation
87E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	BM6433	Date of Approval:26/3/2003 Effective from:26/3/2003 Last date of update:2015-01-01	Revoked/cancelled
88E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AD9748	Date of Approval:25/5/2007 Effective from:22/6/2007 Last date of update:2015-01-01	Superseded By Variation
89E	224	SE	529600 182300	University College London, Medical School, university Street, London, WC1	University College London	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AA0132	Date of Approval:6-2-1992 Effective from:6-2-1992 Last date of update:2005-01-06	Superseded By Variation
90E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AC7952	Date of Approval:31/5/1995 Effective from:22/6/1995 Last date of update:2015-01-01	Superseded By Variation
91E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AD9748	Date of Approval:1/12/2003 Effective from:1/1/2004 Last date of update:2015-01-01	Superseded By Variation
92E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AR1833	Date of Approval:1/4/1991 Effective from:1/4/1991 Last date of update:2015-01-01	Revoked/cancelled
93E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AD9748	Date of Approval:24/9/1996 Effective from:21/10/1996 Last date of update:2015-01-01	Superseded By Variation

ID	Distance (m)	Direction	NGR	Address	Operator	Type	Permission Number	Dates	Status
94E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AA0116	Date of Approval:27/6/1997 Effective from:27/6/1997 Last date of update:2015-01-01	Superseded By Variation
95E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AA0116	Date of Approval:9/9/2005 Effective from:9/9/2005 Last date of update:2015-01-01	Superseded By Variation
96E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AA0116	Date of Approval:20/4/2009 Effective from:20/4/2009 Last date of update:2015-01-01	Effective
97E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AD9748	Date of Approval:4/1/2006 Effective from:4/1/2006 Last date of update:2015-01-01	Superseded By Variation
98E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AE3974	Date of Approval:31/3/1991 Effective from:31/3/1991 Last date of update:2015-01-01	Revoked/ca ncelled
99E	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AC7952	Date of Approval:6/9/1999 Effective from:1/10/1999 Last date of update:2015-01-01	Superseded By Variation
100D	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AC7952	Date of Approval:1/12/2003 Effective from:1/1/2004 Last date of update:2015-01-01	Revoked/ca ncelled
101D	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AD9748	Date of Approval:10/8/1999 Effective from:6/9/1999 Last date of update:2015-01-01	Superseded By Variation

ID	Distance (m)	Direction	NGR	Address	Operator	Type	Permission Number	Dates	Status
102D	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AC7952	Date of Approval:31/3/1991 Effective from:31/3/1991 Last date of update:2015-01-01	Superseded By Variation
103D	224	SE	529600 182300	University College London, Medical School, university Street, London, WC1	University College London	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AA0132	Date of Approval:24/9/1996 Effective from:24/9/1996 Last date of update:2015-01-01	Revoked/cancelled
104D	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AD9748	Date of Approval:20/4/2009 Effective from:18/5/2009 Last date of update:2015-01-01	Superseded By Variation
105D	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AD9748	Date of Approval:19/12/1997 Effective from:1/1/1998 Last date of update:2015-01-01	Superseded By Variation
106D	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AR1841	Date of Approval:31/5/1995 Effective from:31/5/1995 Last date of update:2015-01-01	Effective
107D	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AC7952	Date of Approval:19/12/1997 Effective from:1/1/1998 Last date of update:2015-01-01	Superseded By Variation
108D	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AD9748	Date of Approval:9/9/2005 Effective from:7/10/2005 Last date of update:2015-01-01	Superseded By Variation
109D	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AE3966	Date of Approval:31/3/1991 Effective from:31/3/1991 Last date of update:2015-01-01	Revoked/cancelled



ID	Distance (m)	Direction	NGR	Address	Operator	Type	Permission Number	Dates	Status
110D	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AD9748	Date of Approval:28/10/1999 Effective from:24/11/1999 Last date of update:2015-01-01	Superseded By Variation
111D	224	SE	529600 182300	University College London, Gower Street, London, WC1E 6BT	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AD9748	Date of Approval:19/10/2009 Effective from:16/11/2009 Last date of update:2015-01-01	Effective
112F	251	S	529500 182200	University College London Hospitals Nhs Foundation Trust, University College Hospital, Gower Street, London, WC1E 6AU	University College London Hospitals Nhs Foundation Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AA0256	Date of Approval:24/1/2006 Effective from:21/2/2006 Last date of update:2015-01-01	Revoked/cancelled
113F	251	S	529500 182200	University College London Hospitals Nhs Foundation Trust, University College Hospital, Gower Street, London, WC1E 6AU	University College London Hospitals Nhs Foundation Trust	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AC4406	Date of Approval:18/12/2000 Effective from:18/12/2000 Last date of update:2015-01-01	Superseded By Variation
114F	251	S	529500 182200	University College London Hospitals Nhs Foundation Trust, University College Hospital, Gower Street, London, WC1E 6AU	University College London Hospitals Nhs Foundation Trust	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AC4406	Date of Approval:29/4/2002 Effective from:29/4/2002 Last date of update:2015-01-01	Revoked/cancelled
115F	251	S	529500 182200	University College London Hospitals Nhs Foundation Trust, University College Hospital, Gower Street, London, WC1E 6AU	University College London Hospitals Nhs Foundation Trust	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AC4406	Date of Approval:- Effective from:- Last date of update:2005-01-06	Valid
116F	251	S	529500 182200	University College London Hospitals Nhs Foundation Trust, University College Hospital, Gower Street, London, WC1E 6AU	University College London Hospitals Nhs Foundation Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AA0256	Date of Approval:19/9/2002 Effective from:17/10/2002 Last date of update:2015-01-01	Superseded By Variation
117F	251	S	529500 182200	University College And Middlesex School Of Medicine, University College London Of Medicine, Middlesex Hospital Site, London, W1	University College And Middlesex School Of Medicine	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AD9691	Date of Approval:31/3/1991 Effective from:31/3/1991 Last date of update:2015-01-01	Revoked/cancelled

ID	Distance (m)	Direction	NGR	Address	Operator	Type	Permission Number	Dates	Status
118F	251	S	529500 182200	University College London Hospitals Nhs Foundation Trust, University College Hospital, Gower Street, London, WC1E 6AU	University College London Hospitals Nhs Foundation Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AA0256	Date of Approval:- Effective from:- Last date of update:2005-01-06	Valid
119F	251	S	529500 182200	University College London Hospitals Nhs Foundation Trust, University College Hospital, Gower Street, London, WC1E 6AU	University College London Hospitals Nhs Foundation Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AA0256	Date of Approval:18/12/2000 Effective from:18/1/2001 Last date of update:2015-01-01	Superseded By Variation
120G	272	NW	529300 182700	Covidien Uk Commercial Ltd, Mallinckroot Radiopharmacy Services, University College Hospital, 235 Euston Road, London, NW1 2BU	Covidien Uk Commercial Ltd	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	CC5428	Date of Approval:8/12/2008 Effective from:8/12/2008 Last date of update:2015-01-01	Effective
121G	272	NW	529300 182700	University College London Hospitals Nhs Foundation Trust, University College Hospital, 235 Euston Road, London, NW1 2BU	University College London Hospitals Nhs Foundation Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	BY8624	Date of Approval:24/1/2006 Effective from:21/2/2006 Last date of update:2015-01-01	Effective
122G	272	NW	529300 182700	University College London Hospitals Nhs Foundation Trust, University College Hospital, 235 Euston Road, London, NW1 2BU	University College London Hospitals Nhs Foundation Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	BY8624	Date of Approval:14/7/2005 Effective from:14/7/2005 Last date of update:2015-01-01	Superseded By Variation
123G	272	NW	529300 182700	Covidien Uk Commercial Ltd, Mallinckroot Radiopharmacy Services, University College Hospital, 235 Euston Road, London, NW1 2BU	Covidien Uk Commercial Ltd	Disposal Of Radioactive Waste (was Rsa60 Section 6).	CC3883	Date of Approval:9/6/2008 Effective from:9/6/2008 Last date of update:2015-01-01	Effective
124G	272	NW	529300 182700	Tyco Healthcare (uk) Limited, Mallinckroot Radiopharmacy Services, University College Hospital, 235 Euston Road, London, NW1 2BU	Tyco Healthcare (uk) Limited	Disposal Of Radioactive Waste (was Rsa60 Section 6).	BZ4268	Date of Approval:4/10/2005 Effective from:4/10/2005 Last date of update:2015-01-01	Revoked/cancelled
125G	272	NW	529300 182700	University College London Hospitals Nhs Foundation Trust, University College Hospital, 235 Euston Road, London, NW1 2BU	University College London Hospitals Nhs Foundation Trust	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	BY8632	Date of Approval:14/7/2005 Effective from:14/7/2005 Last date of update:2015-01-01	Effective

ID	Distance (m)	Direction	NGR	Address	Operator	Type	Permission Number	Dates	Status
126G	272	NW	529300 182700	Covidien Uk Commercial Ltd, Mallinckroot Radiopharmacy Services, university College Hospital, 235 Euston Road, London, NW1 2BU	Covidien Uk Commercial Ltd	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	CC5428	Date of Approval: 9/6/2008 Effective from: 9/6/2008 Last date of update: 2015-01-01	Superseded By Variation
127G	272	NW	529300 182700	Tyco Healthcare (uk) Limited, Mallinckroot Radiopharmacy Services, university College Hospital, 235 Euston Road, London, NW1 2BU	Tyco Healthcare (uk) Limited	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	BZ4276	Date of Approval: 4/10/2005 Effective from: 4/10/2005 Last date of update: 2015-01-01	Revoked/cancelled

### 2.1.8 Records of Licensed Discharge Consents within 500m of the study site:

0

Database searched and no data found.

### 2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

### 2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

0

Database searched and no data found.

## 2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site:

0

Database searched and no data found.

## 2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

### 2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

2

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
1	240	NE	529560 182658	Incident Date: 05-Jul-2001 Incident Identification: 14098 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
2	497	SE	529717 182041	Incident Date: 24-Apr-2003 Incident Identification: 153692 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

### 2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

Database searched and no data found.

## 2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

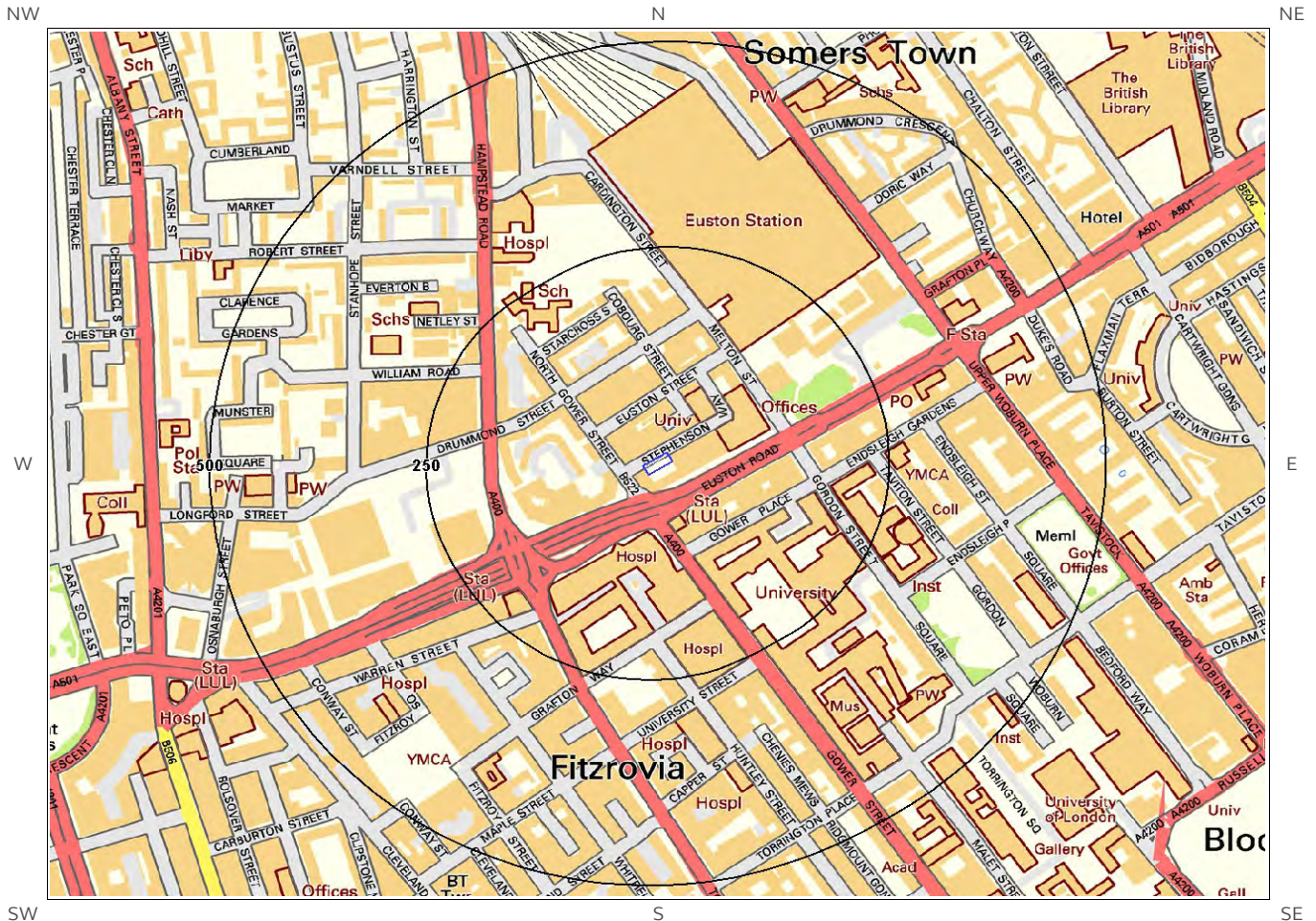
How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site?

0










Database searched and no data found.



# 3. Landfill and Other Waste Sites Map



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- |   |   |   |                            |   |                                  |
|---|---|---|----------------------------|---|----------------------------------|
|  | Site Outline  |  | EA/NRW Active Landfill     |  | Historic and Planned Waste Sites |
|  | EA/NRW Historic Landfill                            |  | EA/NRW Licensed Waste Site |  | BGS / DoE Survey Landfill        |
|  | Local Authority/Historical Mapping Landfill Records |   |                            |   |                                  |
-  250 Search Buffers (m)  
 500 Search Buffers (m)

# 3. Landfill and Other Waste Sites

## 3.1 Landfill Sites

3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site:

0

Database searched and no data found.

---

3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site:

0

Database searched and no data found.

---

3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

0

Database searched and no data found.

---

3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

0

Database searched and no data found.

---

## 3.2 Other Waste Sites

3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

0

Database searched and no data found.

---



### 3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

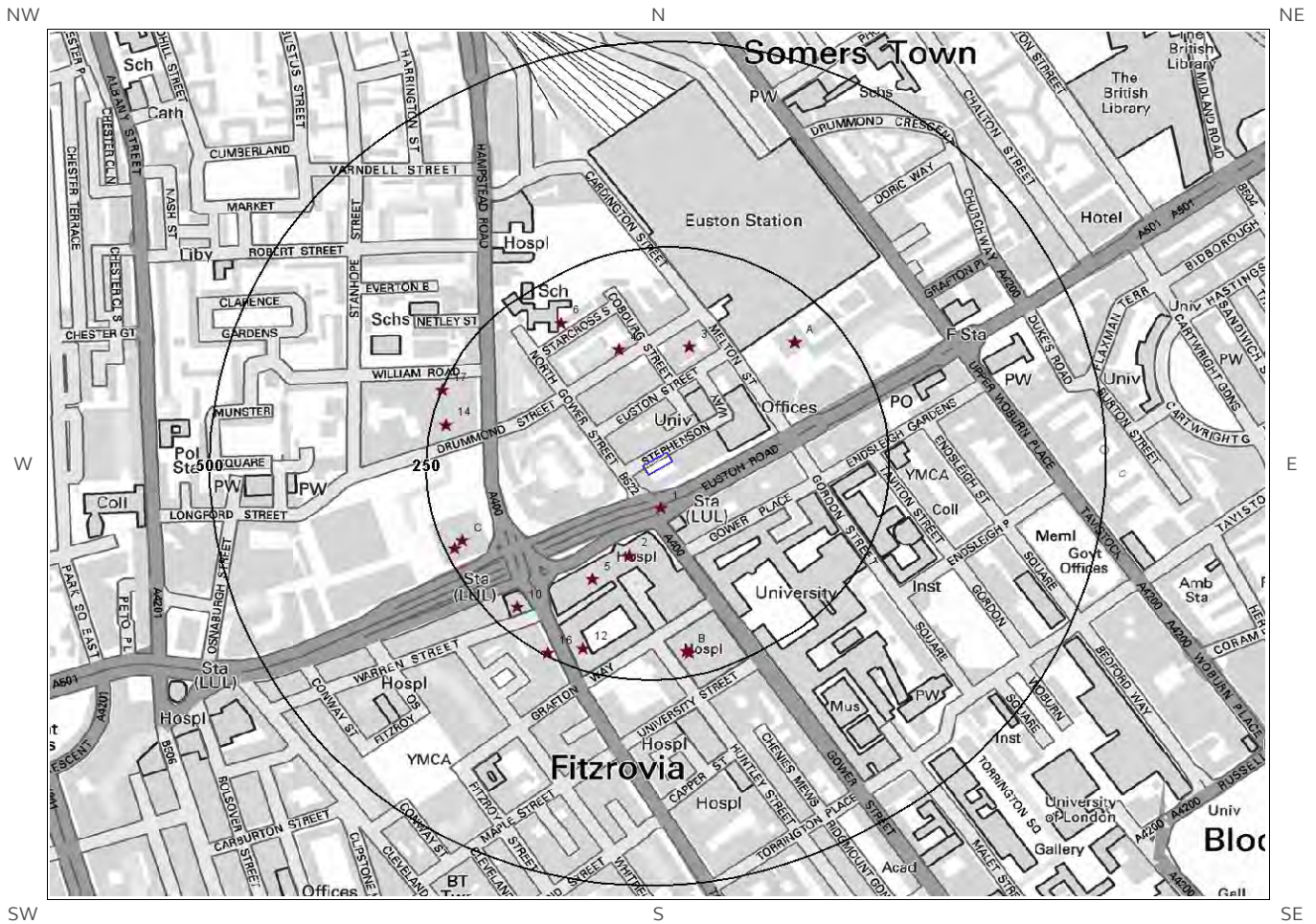
10

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details
Not shown	993	NE	529833 183365	<p>Site Address: Ronald Hall, St Pancras Metals, 86, Pancras Road, London, NW1 1WJ</p> <p>Type: Metal Recycling Site (mixed MRS's)</p> <p>Size: &lt; 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: SAI006</p> <p>EPR reference: EA/EPR/AP3691NW/A001</p> <p>Operator: Hall Ronald Herbert Charles</p> <p>Waste Management licence No: 80335</p> <p>Annual Tonnage: 2080.0</p> <p>Issue Date: 20/11/1992</p> <p>Effective Date: -</p> <p>Modified: -</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Issued</p> <p>Site Name: St Pancras Metals, N W 1</p> <p>Correspondence Address: -</p>
Not shown	1088	NE	529975 183399	<p>Site Address: Shanks &amp; McEwan (Southern) Ltd, Kings Cross Transfer Station, 1, Camley Street, Camden, London, NW1 1UU</p> <p>Type: Household, Commercial &amp; Industrial Waste T Stn</p> <p>Size: &gt;= 75000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: SHA005</p> <p>EPR reference: EA/EPR/AP3091NU/S002</p> <p>Operator: Shanks Waste Services Ltd</p> <p>Waste Management licence No: 80329</p> <p>Annual Tonnage: 52326.0</p> <p>Issue Date: 16/02/1993</p> <p>Effective Date: -</p> <p>Modified: -</p> <p>Surrendered Date: 06/03/2001</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Surrendered</p> <p>Site Name: Shanks &amp; McEwan, King's Cross</p> <p>Correspondence Address: -</p>
Not shown	1110	NE	529928 183449	<p>Site Address: P. Donaghy, 2, Camley Street, Kings Cross, London, NW1</p> <p>Type: Household, Commercial &amp; Industrial Waste T Stn</p> <p>Size: &gt;= 75000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: RUT001</p> <p>EPR reference: EA/EPR/WP3791NW/S004</p> <p>Operator: Rutland (Waste Disposal) Ltd</p> <p>Waste Management licence No: 80327</p> <p>Annual Tonnage: 25000.0</p> <p>Issue Date: 17/02/1992</p> <p>Effective Date: -</p> <p>Modified: 15/07/1997</p> <p>Surrendered Date: 07/01/2000</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Surrendered</p> <p>Site Name: Rutland (Waste Disposal) Ltd, Kings Cross</p> <p>Correspondence Address: -</p>
Not shown	1127	S	529163 181332	<p>Site Address: Mobile Plant</p> <p>Type: Mobile Plant</p> <p>Size: &lt; 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: MVB002</p> <p>EPR reference: EA/EPR/KP3999VT/V004</p> <p>Operator: A) Morgan Sindall (infrastructure) Plc B) Vnici Construction Grans Projects And</p> <p>Waste Management licence No: 101857</p> <p>Annual Tonnage: 0.0</p> <p>Issue Date: 12/10/2010</p> <p>Effective Date: -</p> <p>Modified: 14/03/2012</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Modified</p> <p>Site Name: Mobile Plant</p> <p>Correspondence Address: -</p>
Not shown	1138	N	529589 183586	<p>Site Address: -</p> <p>Type: Metal Recycling Site (mixed MRS's)</p> <p>Size: &lt; 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: ARB001</p> <p>EPR reference: EA/EPR/EP3491NW/A001</p> <p>Operator: Arbuckle William David</p> <p>Waste Management licence No: 80302</p> <p>Annual Tonnage: 1014.0</p> <p>Issue Date: 05/06/1997</p> <p>Effective Date: -</p> <p>Modified: -</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Issued</p> <p>Site Name: Arbuckle, St Pancras Way</p> <p>Correspondence Address: -</p>

ID	Distance (m)	Direction	NGR	Details	
Not shown	1151	SE	530155 181552	<p>Site Address: Mobile Plant Type: Mobile plant treatment for soil &lt;75,000 tpd Size: &lt; 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RIA001 EPR reference: EA/EPR/EB3603UR/A001 Operator: Recycled In Ardleigh Limited Waste Management licence No: 105680 Annual Tonnage: 0.0</p>	<p>Issue Date: 20/02/2017 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Mobile Plant S R 2010 No11 Correspondence Address: -</p>
Not shown	1291	NE	530575 183048	<p>Site Address: - Type: Mobile Plant for remediation of land Size: &lt; 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VWO010 EPR reference: EA/EPR/AB3302GW/V002 Operator: Veolia Water Organics Recycling Ltd Waste Management licence No: 105434 Annual Tonnage: 0.0</p>	<p>Issue Date: 15/07/2013 Effective Date: - Modified: 09/09/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: S R 2008 No27 Correspondence Address: -</p>
Not shown	1298	NE	530584 183046	<p>Site Address: Mobile Plant Type: Mobile Plant for remediation of land Size: &lt; 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VEO230 EPR reference: EA/EPR/DB3606XL/A001 Operator: Veolia E S Landfill Ltd Waste Management licence No: 105629 Annual Tonnage: 0.0</p>	<p>Issue Date: 30/11/2015 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Mobile Plant S R 2008 No27 Correspondence Address: -</p>
Not shown	1374	N	529908 183746	<p>Site Address: Nick Dean, Kings Cross Goods Depot, Goods Way, Kings Cross, London, NW1 Type: Household, Commercial &amp; Industrial Waste T Stn Size: &gt;= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRS001 EPR reference: EA/EPR/EP3991NL/S005 Operator: GRS (Roadstone) Ltd Waste Management licence No: 80299 Annual Tonnage: 196000.0</p>	<p>Issue Date: 30/03/1993 Effective Date: - Modified: 18/09/1997 Surrendered Date: 15/10/2002 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: GRS (Roadstone), Kings Cross Correspondence Address: -</p>
Not shown	1374	N	529908 183746	<p>Site Address: Nick Dean, Kings Cross Goods Depot, Goods Way, Kings Cross, London, NW1 Type: Household, Commercial &amp; Industrial Waste T Stn Size: &gt;= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRS001 EPR reference: EA/EPR/EP3991NL/S005 Operator: G R S ( Roadstone ) Ltd Waste Management licence No: 80299 Annual Tonnage: 196000.0</p>	<p>Issue Date: 30/03/1993 Effective Date: - Modified: 18/09/1997 Surrendered Date: 15/10/2002 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: GRS (Roadstone), Kings Cross Correspondence Address: -</p>

# 4. Current Land Use Map



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-  Site Outline
-  Current Industrial Sites
-  Electricity Transmission Cables
-  Petrol & Fuel Sites
-  Gas Transmission Pipelines
-  Search Buffers (m)

# 4. Current Land Uses

## 4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site:

17

The following records are represented as points on the Current Land Uses map.

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	42	S	Euston Square	529418 182392	Euston Square Station, Euston Road, London, NW1 2BN	Underground Network Stations	Public Transport, Stations and Infrastructure
2	100	S	University College Hospital	529382 182335	235, Euston Road, London, NW1 2BU	Accident and Emergency Hospitals	Health Practitioners and Establishments
3	132	N	Calumet Photographic	529451 182588	99-103, Drummond Street, London, NW1 2HJ	Photographic and Optical Equipment	Household, Office, Leisure and Garden
4	137	NW	Drayton Scaffolding	529370 182585	100, Drummond Street, London, NW1 2HN	Construction and Tool Hire	Hire Services
5	143	SW	Harley Street at UCH	529339 182305	235, Euston Road, London, NW1 2BU	Hospitals	Health Practitioners and Establishments
6	199	NW	Electricity Sub Station	529304 182618	NW1	Electrical Features	Infrastructure and Facilities
7A	199	NE	Furniture File	529573 182594	Oneustonsq 40, Melton Street, London, NW1 2FD	Office and Shop Equipment	Industrial Products
8A	199	NE	Finnair	529573 182594	Oneustonsq 40, Melton Street, London, NW1 2FD	Airlines and Airline Services	Transport, Storage and Delivery
9B	219	S	Elizabeth Garrett Anderson Wing (University College Hospital)	529448 182218	235, Euston Road, London, NW1 2BU	Hospitals	Health Practitioners and Establishments
10	221	SW	Warren Street	529252 182272	Warren Court, Warren Street, London, NW1 3AA	Underground Network Stations	Public Transport, Stations and Infrastructure
11B	222	S	Chimney	529452 182216	WC1E	Chimneys	Industrial Features
12	224	S	D Z D	529329 182221	145, Tottenham Court Road, London, W1T 7NE	Office and Shop Equipment	Industrial Products
13C	227	SW	Halfords	529190 182353	Euston Road, London, NW1 3DP	Vehicle Parts and Accessories	Motoring
14	233	W	Haverstock Health Care	529171 182494	154, Drummond Street, London, NW1 3HP	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products
15C	239	SW	Atkins Group	529180 182343	Euston Tower 286, Euston Road, London, NW1 3AT	Civil Engineers	Engineering Services
16	246	SW	Spectrum	529287 182215	127, Tottenham Court Road, London, W1T 5AU	Photographic and Optical Equipment	Household, Office, Leisure and Garden

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
17	250	W	Getincased Ltd	529166 182535	Acre House 11-15, William Road, London, NW1 3ER	Radar and Telecommunications Equipment	Industrial Products

---

## 4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 0

Database searched and no data found.

---

## 4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site: 0

Database searched and no data found.

---

## 4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

---

# 5. Geology

## 5.1 Artificial Ground and Made Ground

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

## 5.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
LHGR-XSV	LYNCH HILL GRAVEL MEMBER	SAND AND GRAVEL

## 5.3 Bedrock and Solid Geology

The database has been searched on site, including a 50m buffer.

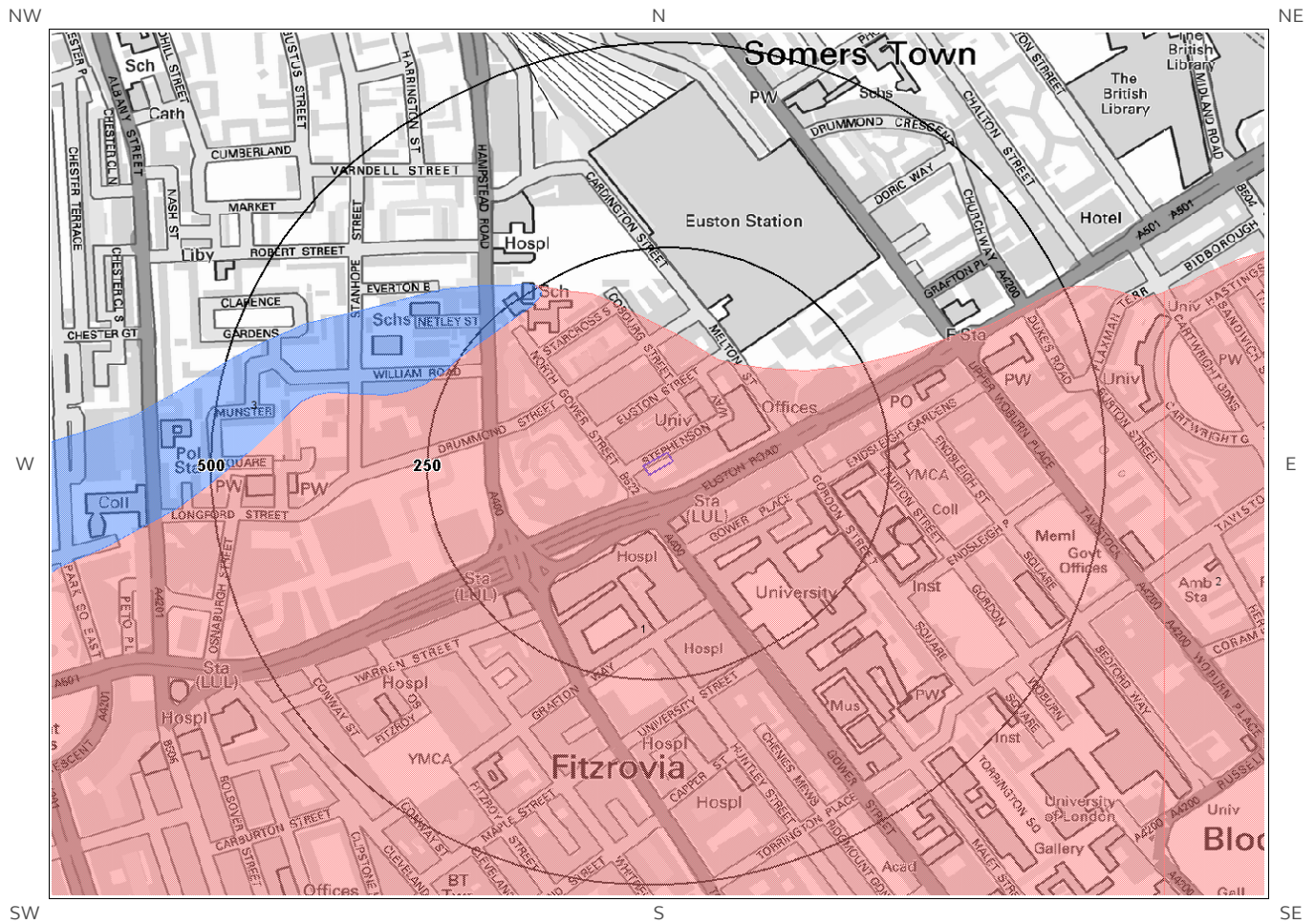
Lex Code	Description	Rock Type
LC-XCZS	LONDON CLAY FORMATION	CLAY, SILT AND SAND

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

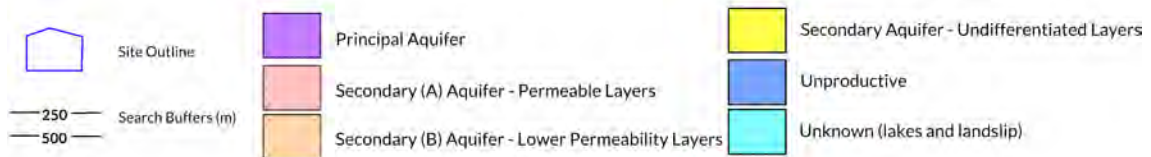


# 6 Hydrogeology and Hydrology

## 6a. Aquifer Within Superficial Geology



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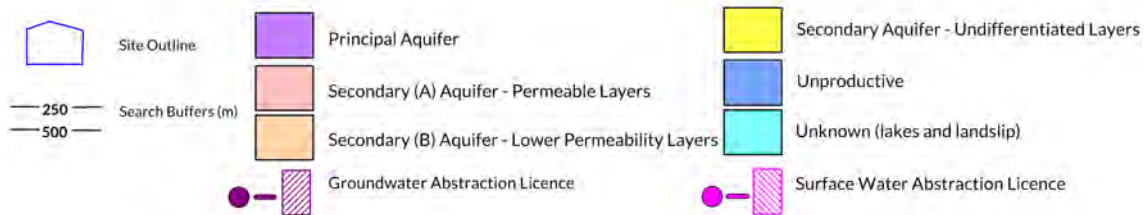




# 6b. Aquifer Within Bedrock Geology and Abstraction Licenses

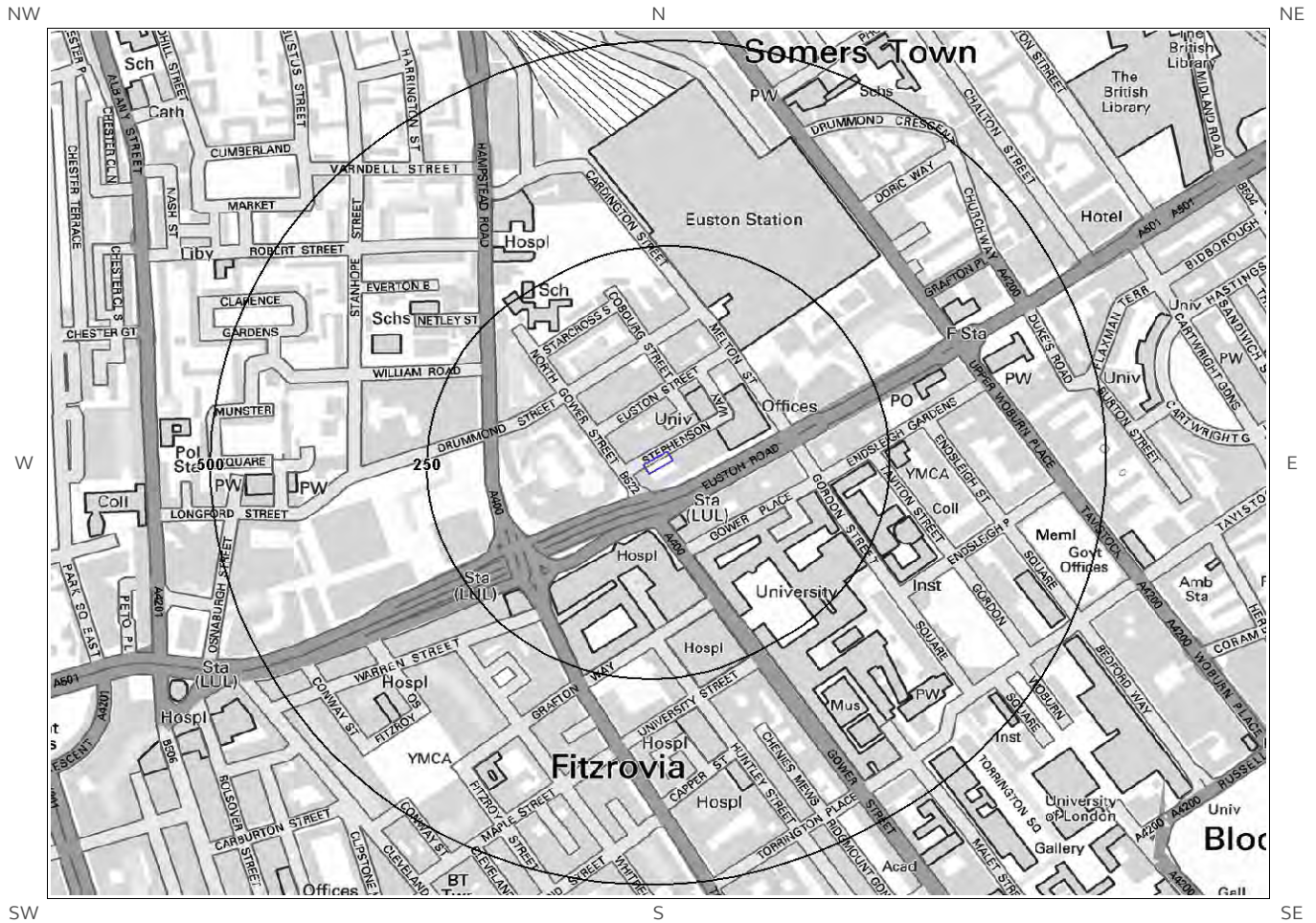


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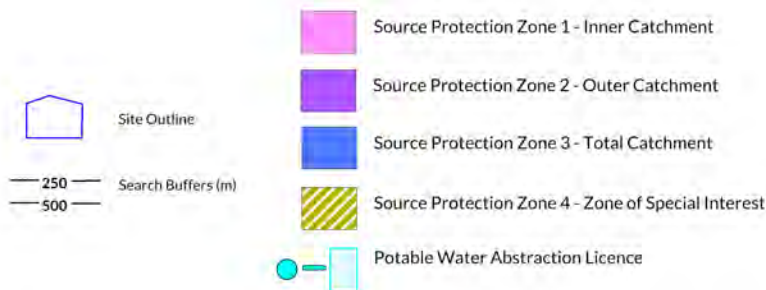




# 6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses

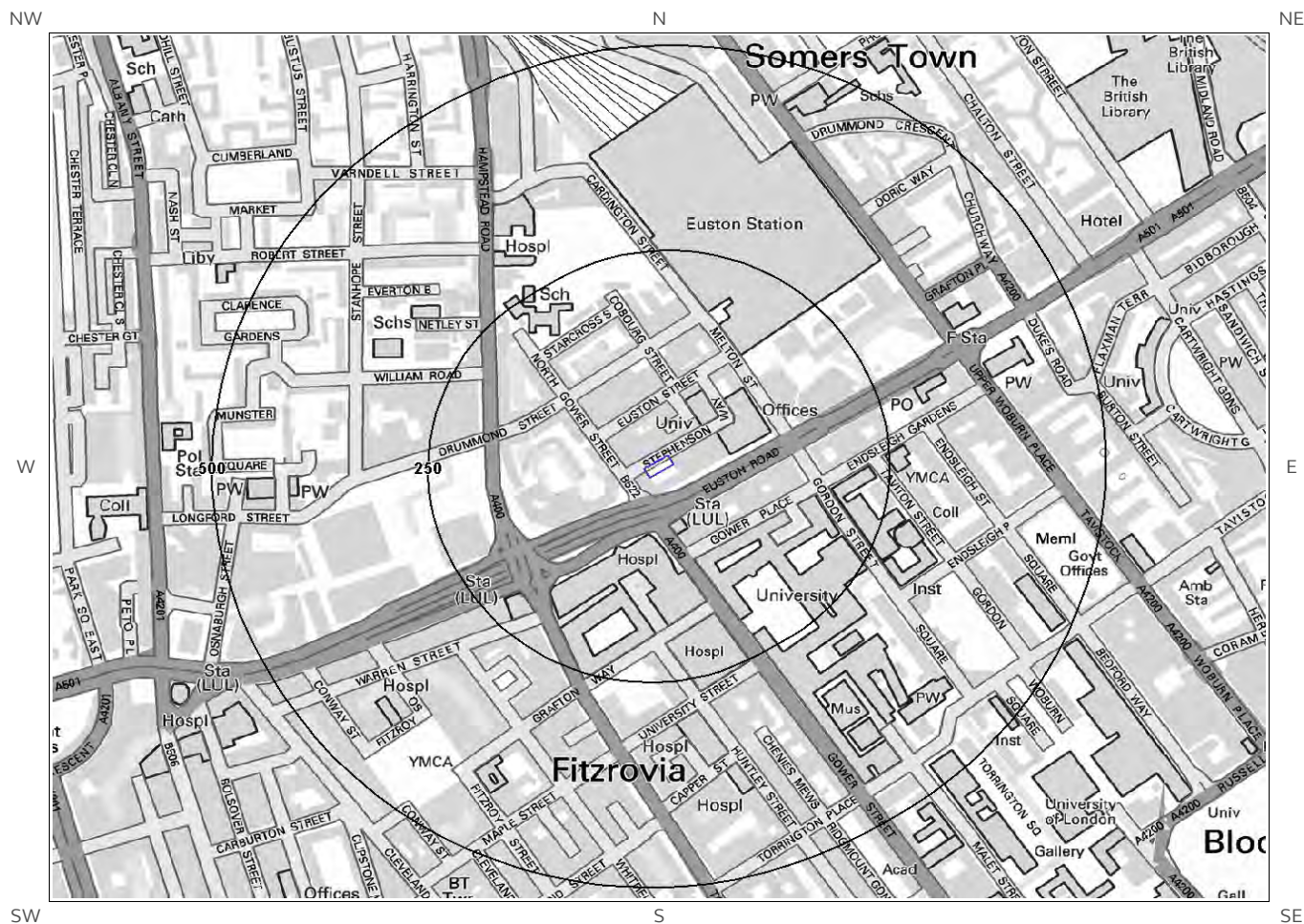


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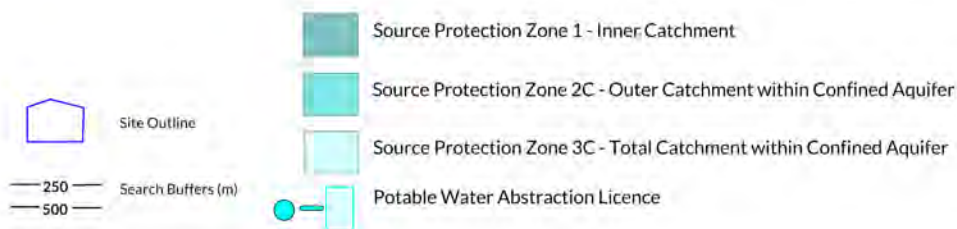




# 6d. Hydrogeology – Source Protection Zones within confined aquifer

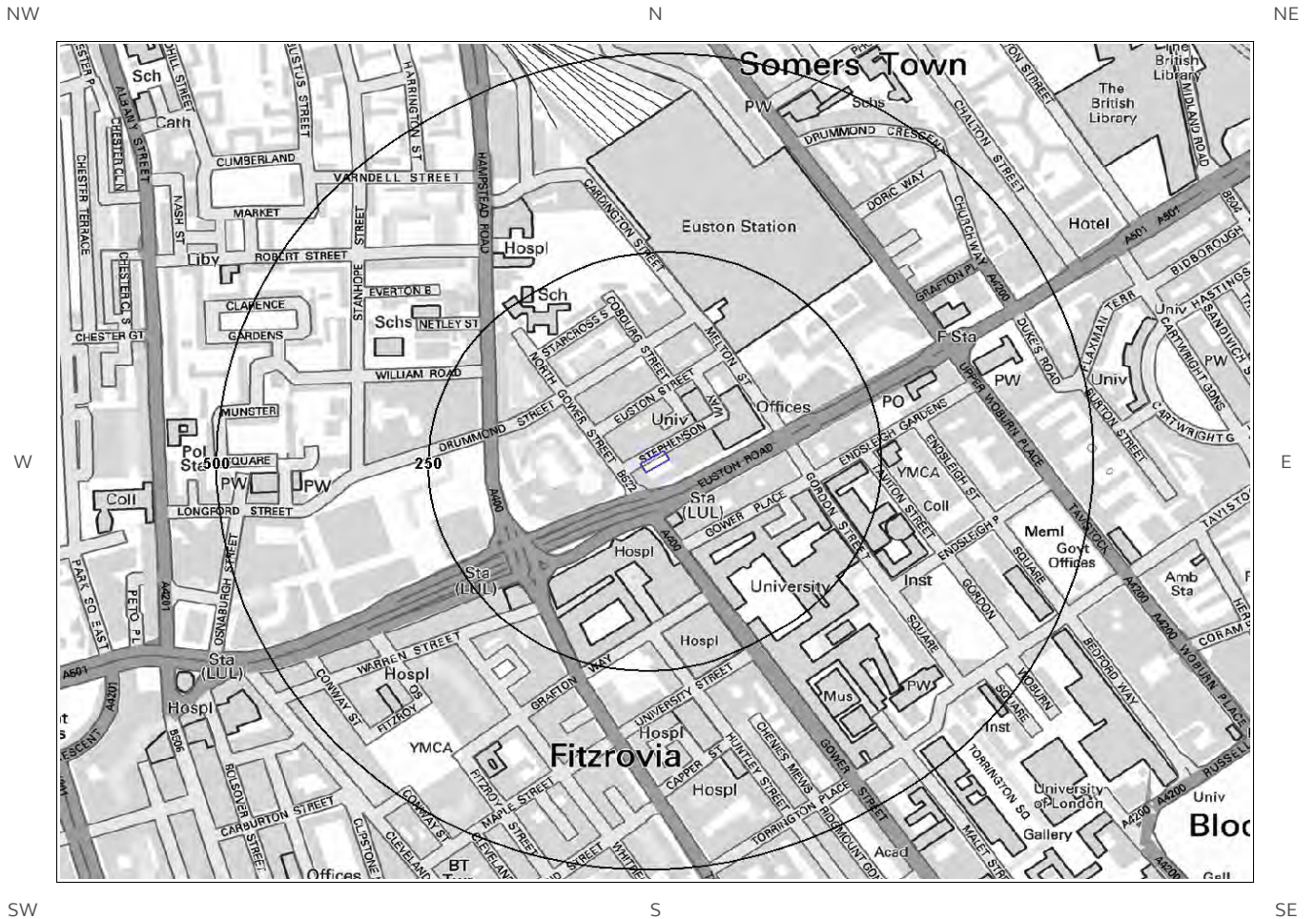


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# 6e. Hydrology – Watercourse Network and River Quality



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# 6. Hydrogeology and Hydrology

## 6.1 Aquifer within Superficial Deposits

Are there records of strata classification within the superficial geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

ID	Distance (m)	Direction	Designation	Description
1	0	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
3	234	NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

## 6.2 Aquifer within Bedrock Deposits

Are there records of strata classification within the bedrock geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	Designation	Description
1	0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow



## 6.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 2000m of the study site?

Identified

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details
3A	676	NE	530052 182718	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 Annual Volume (m <sup>3</sup> ): 327600 Max Daily Volume (m <sup>3</sup> ): 1260 Original Application No: NPSWR000003 Original Start Date: 9/4/2009 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 9/4/2009 Version End Date:
4A	676	NE	530052 182718	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 Annual Volume (m <sup>3</sup> ): 327600 Max Daily Volume (m <sup>3</sup> ): 1260 Original Application No: NPSWR000003 Original Start Date: 9/4/2009 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 9/4/2009 Version End Date:
5A	676	NE	530052 182718	Status: Active 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 Annual Volume (m <sup>3</sup> ): 327600 Max Daily Volume (m <sup>3</sup> ): 1440 Original Application No: NPS/WR/017625 Original Start Date: 16/4/2013 Expiry Date: 31/3/2019 Issue No: 2 Version Start Date: 21/11/2014 Version End Date:
Not shown	722	SE	529858 181865	Status: Active 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 Annual Volume (m <sup>3</sup> ): 203407 Max Daily Volume (m <sup>3</sup> ): 558 Original Application No: NPS/WR/004429 Original Start Date: 8/11/2010 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 1/4/2011 Version End Date:
Not shown	722	SE	529858 181865	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 Annual Volume (m <sup>3</sup> ): 203407 Max Daily Volume (m <sup>3</sup> ): 558 Original Application No: NPS/WR/004429 Original Start Date: 8/11/2010 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 8/11/2010 Version End Date:
Not shown	725	SE	529860 181863	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 Annual Volume (m <sup>3</sup> ): 203407 Max Daily Volume (m <sup>3</sup> ): 558 Original Application No: NPS/WR/004429 Original Start Date: 8/11/2010 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 8/11/2010 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	725	SE	529860 181863	Status: Active 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	Annual Volume (m <sup>3</sup> ): 203407 Max Daily Volume (m <sup>3</sup> ): 558 Original Application No: NPS/WR/004429 Original Start Date: 8/11/2010 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 1/4/2011 Version End Date:
Not shown	784	SW	528830 181900	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: Ridgeford Properties Limited	Annual Volume (m <sup>3</sup> ): 50000 Max Daily Volume (m <sup>3</sup> ): 400 Original Application No: NPSWR001161 Original Start Date: 13/8/2009 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 13/8/2009 Version End Date:
Not shown	784	SW	528830 181900	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: Ridgeford Properties Limited	Annual Volume (m <sup>3</sup> ): 50000 Max Daily Volume (m <sup>3</sup> ): 400 Original Application No: NPSWR009221 Original Start Date: 1/4/2013 Expiry Date: 31/3/2025 Issue No: 1 Version Start Date: 1/4/2013 Version End Date:
Not shown	1015	W	528407 182223	Status: Historical Licence No: TH/039/0039/022 Details: Heat Pump Direct Source: Thames Groundwater Point: Confined Chalk, Doric Villa, York Terrace East, London Data Type: Point Name: Ritblat	Annual Volume (m <sup>3</sup> ): 118260 Max Daily Volume (m <sup>3</sup> ): 324 Original Application No: NPS/WR/002585 Original Start Date: 26/2/2010 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 26/2/2010 Version End Date:
Not shown	1015	W	528407 182223	Status: Active Licence No: TH/039/0039/022 Details: Heat Pump Direct Source: Thames Groundwater Point: Doric Villa, York Terrace East, London Data Type: Point Name: Ritblat	Annual Volume (m <sup>3</sup> ): 118260 Max Daily Volume (m <sup>3</sup> ): 324 Original Application No: NPS/WR/002585 Original Start Date: 26/2/2010 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 26/2/2010 Version End Date:
Not shown	1052	SW	528480 181930	Status: Historical Licence No: 28/39/39/0215 Details: Non-Evaporative Cooling Direct Source: Thames Groundwater Point: 3-5 Devonshire Place-borehole A Data Type: Point Name: TRUSTEES OF THE LONDON CLINIC LIMITED	Annual Volume (m <sup>3</sup> ): 122400 Max Daily Volume (m <sup>3</sup> ): 511 Original Application No: WRA/N/1383 Original Start Date: 24/2/2005 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 24/2/2005 Version End Date:
Not shown	1057	SW	528480 181920	Status: Historical Licence No: 28/39/39/0215 Details: Non-Evaporative Cooling Direct Source: Thames Groundwater Point: 20 Devonshire Place, London-borehole A Data Type: Point Name: TRUSTEES OF THE LONDON CLINIC LIMITED	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: WRA/N/1383 Original Start Date: 24/2/2005 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 24/2/2005 Version End Date:
Not shown	1069	SW	528460 181930	Status: Historical Licence No: 28/39/39/0215 Details: Non-Evaporative Cooling Direct Source: Thames Groundwater Point: 3-5 Devonshire Place-borehole B Data Type: Point Name: TRUSTEES OF THE LONDON CLINIC LIMITED	Annual Volume (m <sup>3</sup> ): 122400 Max Daily Volume (m <sup>3</sup> ): 511 Original Application No: WRA/N/1383 Original Start Date: 24/2/2005 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 24/2/2005 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1070	SW	528470 181910	<p>Status: Historical Licence No: 28/39/39/0215 Details: Non-Evaporative Cooling Direct Source: Thames Groundwater Point: 20 Devonshire Place, London-borehole B Data Type: Point Name: TRUSTEES OF THE LONDON CLINIC LIMITED</p> <p>Annual Volume (m<sup>3</sup>): - Max Daily Volume (m<sup>3</sup>): - Original Application No: WRA/N/1383 Original Start Date: 24/2/2005 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 24/2/2005 Version End Date:</p>
Not shown	1077	S	529100 181400	<p>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</p> <p>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:</p>
Not shown	1077	S	529100 181400	<p>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</p> <p>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:</p>
Not shown	1152	S	529010 181350	<p>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</p> <p>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:</p>
Not shown	1171	S	529010 181330	<p>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: Pontsarn Investments Limited</p> <p>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:</p>
Not shown	1203	S	529000 181300	<p>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</p> <p>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:</p>

ID	Distance (m)	Direction	NGR	Details
Not shown	1203	S	529000 181300	<p>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</p> <p>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:</p>
Not shown	1259	NE	530368 183294	<p>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</p> <p>Annual Volume (m<sup>3</sup>): 323612 Max Daily Volume (m<sup>3</sup>): 2160 Original Application No: NPS/WR/015663 Original Start Date: 6/2/2013 Expiry Date: 31/3/2025 Issue No: 2 Version Start Date: 25/6/2014 Version End Date:</p>
Not shown	1586	W	527850 182100	<p>Status: Historical Licence No: 28/39/39/0070 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Abbey House, Baker Street- Borehole Data Type: Point Name: BASKERVILLE ESTATES (GP) LIMITED</p> <p>Annual Volume (m<sup>3</sup>): - Max Daily Volume (m<sup>3</sup>): - Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 102 Version Start Date: 19/12/2003 Version End Date:</p>
Not shown	1635	W	527800 182100	<p>Status: Historical Licence No: 28/39/39/0070 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole At Abbey House, Baker Street, London Nw1 Data Type: Point Name: ABBEY NATIONAL PLC</p> <p>Annual Volume (m<sup>3</sup>): - Max Daily Volume (m<sup>3</sup>): - Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 101 Version Start Date: 2/5/2000 Version End Date:</p>
Not shown	1656	N	529920 184040	<p>Status: Historical Licence No: 28/39/39/0222 Details: General Use Relating To Secondary Category (High Loss) Direct Source: Thames Groundwater Point: Kings Cross Concrete Plant-borehole Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD</p> <p>Annual Volume (m<sup>3</sup>): 55200 Max Daily Volume (m<sup>3</sup>): 200 Original Application No: GEN/39/ Original Start Date: 31/8/2006 Expiry Date: 31/3/2010 Issue No: 1 Version Start Date: 31/8/2006 Version End Date:</p>
Not shown	1656	N	529920 184040	<p>Status: Active Licence No: TH/039/0039/027 Details: General Use Relating To Secondary Category (High Loss) Direct Source: Thames Groundwater Point: Kings Cross Concrete Plant-borehole Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD</p> <p>Annual Volume (m<sup>3</sup>): 33400 Max Daily Volume (m<sup>3</sup>): 200 Original Application No: NPS/WR/011609 Original Start Date: 21/4/2010 Expiry Date: 31/3/2019 Issue No: 2 Version Start Date: 13/8/2012 Version End Date:</p>
Not shown	1658	W	527800 182000	<p>Status: Active Licence No: 28/39/39/0021 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Thames Groundwater Point: Dorset House, London- 2 Boreholes Data Type: Point Name: Dorset House Residential Limited</p> <p>Annual Volume (m<sup>3</sup>): 56370 Max Daily Volume (m<sup>3</sup>): 318 Original Application No: NPS/WR/017647 Original Start Date: 13/12/1965 Expiry Date: - Issue No: 103 Version Start Date: 20/11/2014 Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details	
Not shown	1658	W	527800 182000	Status: Historical Licence No: 28/39/39/0021 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Thames Groundwater Point: Two Boreholes At Dorset House, Gloucester Place, London. W1 Data Type: Point Name: BELLNORTH LIMITED	Annual Volume (m <sup>3</sup> ): 56370 Max Daily Volume (m <sup>3</sup> ): 318 Original Application No: - Original Start Date: 13/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 10/1/1994 Version End Date:
Not shown	1694	NW	528000 183400	Status: Historical Licence No: 28/39/39/0035 Details: Animal Watering & General Use in non Farming situations Direct Source: Thames Groundwater Point: Borehole At Regent's Park, London Nw1 Data Type: Point Name: ZOOLOGICAL SOCIETY OF LONDON	Annual Volume (m <sup>3</sup> ): 681.9 Max Daily Volume (m <sup>3</sup> ): 59 Original Application No: - Original Start Date: 4/4/1966 Expiry Date: - Issue No: 100 Version Start Date: 4/4/1966 Version End Date:
Not shown	1695	SW	528061 181399	Status: Active Licence No: TH/039/0039/080 Details: Heat Pump Direct Source: Thames Groundwater Point: 7-15 Baker Street, London, W1u - Borehole Data Type: Point Name: London Baker Street SARL	Annual Volume (m <sup>3</sup> ): 52560 Max Daily Volume (m <sup>3</sup> ): 202 Original Application No: NPS/WR/022628 Original Start Date: 19/7/2013 Expiry Date: 31/3/2019 Issue No: 2 Version Start Date: 8/7/2016 Version End Date:
Not shown	1695	SW	528061 181399	Status: Historical Licence No: 28/39/39/0241 Details: Heat Pump Direct Source: Thames Groundwater Point: 7-15 Baker Street, London, W1u - Borehole Data Type: Point Name: AUB (BAKER STREET) DEVELOPMENT LIMITED	Annual Volume (m <sup>3</sup> ): 52560 Max Daily Volume (m <sup>3</sup> ): 201.6 Original Application No: GEN/39/186 Original Start Date: 12/12/2008 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 12/12/2008 Version End Date:
Not shown	1743	S	528765 180766	Status: Historical Licence No: TH/039/0039/036 Details: Heat Pump Direct Source: Thames Groundwater Point: 40-54 Grosvenor Hill London Data Type: Line Name: Grosvenor West End Properties Limited	Annual Volume (m <sup>3</sup> ): 438000 Max Daily Volume (m <sup>3</sup> ): 1200 Original Application No: NPS/WR/006940 Original Start Date: 28/2/2011 Expiry Date: 31/3/2019 Issue No: 2 Version Start Date: 11/11/2011 Version End Date:
Not shown	1743	S	528793 180800	Status: Active Licence No: TH/039/0039/036 Details: Heat Pump Direct Source: Thames Groundwater Point: 40-54 Grosvenor Hill London Data Type: Point Name: Grosvenor Properties	Annual Volume (m <sup>3</sup> ): 438000 Max Daily Volume (m <sup>3</sup> ): 1200 Original Application No: NPS/WR/017057 Original Start Date: 28/2/2011 Expiry Date: 31/3/2019 Issue No: 3 Version Start Date: 14/10/2014 Version End Date:
Not shown	1785	S	528765 180766	Status: Historical Licence No: TH/039/0039/036 Details: Heat Pump Direct Source: Thames Groundwater Point: Borehole At 70 Grosvenor Street London Data Type: Point Name: Grosvenor West End Properties Limited	Annual Volume (m <sup>3</sup> ): 473040 Max Daily Volume (m <sup>3</sup> ): 1296 Original Application No: NPS/WR/005113 Original Start Date: 28/2/2011 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 28/2/2011 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
Not shown	1785	S	528765 180766	Status: Active Licence No: TH/039/0039/036 Details: Heat Pump Direct Source: Thames Groundwater Point: 40-54 Grosvenor Hill London Data Type: Point Name: Grosvenor Properties	Annual Volume (m <sup>3</sup> ): 438000 Max Daily Volume (m <sup>3</sup> ): 1200 Original Application No: NPS/WR/017057 Original Start Date: 28/2/2011 Expiry Date: 31/3/2019 Issue No: 3 Version Start Date: 14/10/2014 Version End Date:
Not shown	1836	E	531239 182777	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	Annual Volume (m <sup>3</sup> ): 1261440 Max Daily Volume (m <sup>3</sup> ): 3456 Original Application No: NPS/WR/009226 Original Start Date: 1/4/2013 Expiry Date: 31/3/2025 Issue No: 1 Version Start Date: 1/4/2013 Version End Date:
Not shown	1849	SW	528190 181039	Status: Active Licence No: TH/039/0039/039 Details: Heat Pump Direct Source: Thames Groundwater Point: Oxford Street - Borehole C Data Type: Point Name: Park House (Oxford St.) Ltd	Annual Volume (m <sup>3</sup> ): 1955232 Max Daily Volume (m <sup>3</sup> ): 5357 Original Application No: NPS/WR/011448 Original Start Date: 1/9/2011 Expiry Date: 31/3/2019 Issue No: 2 Version Start Date: 17/9/2012 Version End Date:
Not shown	1849	SW	528190 181039	Status: Historical Licence No: TH/039/0039/039 Details: Heat Pump Direct Source: Thames Groundwater Point: Borehole C- Oxford Street Data Type: Point Name: Park House (Oxford St.) Ltd	Annual Volume (m <sup>3</sup> ): 1955232 Max Daily Volume (m <sup>3</sup> ): 5357 Original Application No: NPS/WR/007024 Original Start Date: 1/9/2011 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 1/9/2011 Version End Date:
Not shown	1859	SW	528197 181019	Status: Active Licence No: TH/039/0039/039 Details: Heat Pump Direct Source: Thames Groundwater Point: Oxford Street - Borehole B Data Type: Point Name: Park House (Oxford St.) Ltd	Annual Volume (m <sup>3</sup> ): 1955232 Max Daily Volume (m <sup>3</sup> ): 5357 Original Application No: NPS/WR/011448 Original Start Date: 1/9/2011 Expiry Date: 31/3/2019 Issue No: 2 Version Start Date: 17/9/2012 Version End Date:
Not shown	1859	SW	528197 181019	Status: Historical Licence No: TH/039/0039/039 Details: Heat Pump Direct Source: Thames Groundwater Point: Borehole B- Oxford Street Data Type: Point Name: Park House (Oxford St.) Ltd	Annual Volume (m <sup>3</sup> ): 1955232 Max Daily Volume (m <sup>3</sup> ): 5357 Original Application No: NPS/WR/007024 Original Start Date: 1/9/2011 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 1/9/2011 Version End Date:
Not shown	1874	E	531280 182760	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	Annual Volume (m <sup>3</sup> ): 1261440 Max Daily Volume (m <sup>3</sup> ): 3456 Original Application No: WRA/R/2/2 Original Start Date: 8/1/2004 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 8/1/2004 Version End Date:
Not shown	1913	S	529113 180542	Status: Active Licence No: TH/039/0039/042 Details: Heat Pump Direct Source: Thames Groundwater Point: Borehole At Old Bond Street, London Data Type: Point Name: Prada Retail UK Ltd	Annual Volume (m <sup>3</sup> ): 74043 Max Daily Volume (m <sup>3</sup> ): 354 Original Application No: NPS/WR/007512 Original Start Date: 24/10/2012 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 24/10/2012 Version End Date:



ID	Distance (m)	Direction	NGR	Details	
Not shown	1916	SW	528135 180998	Status: Historical Licence No: TH/039/0039/039 Details: Heat Pump Direct Source: Thames Groundwater Point: Borehole A - Oxford Street Data Type: Point Name: Park House (Oxford St.) Ltd	Annual Volume (m <sup>3</sup> ): 1955232 Max Daily Volume (m <sup>3</sup> ): 5357 Original Application No: NPS/WR/007024 Original Start Date: 1/9/2011 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 1/9/2011 Version End Date:
Not shown	1916	SW	528135 180998	Status: Active Licence No: TH/039/0039/039 Details: Heat Pump Direct Source: Thames Groundwater Point: Oxford Street - Borehole A Data Type: Point Name: Park House (Oxford St.) Ltd	Annual Volume (m <sup>3</sup> ): 1955232 Max Daily Volume (m <sup>3</sup> ): 5357 Original Application No: NPS/WR/011448 Original Start Date: 1/9/2011 Expiry Date: 31/3/2019 Issue No: 2 Version Start Date: 17/9/2012 Version End Date:
Not shown	1971	SW	528532 180665	Status: Active Licence No: TH/039/0039/106 Details: Heat Pump Direct Source: Thames Groundwater Point: Borehole At 6 Carlos Place, London Data Type: Point Name: Kering International Limited	Annual Volume (m <sup>3</sup> ): 23511 Max Daily Volume (m <sup>3</sup> ): 100 Original Application No: NPS/WR/017716 Original Start Date: 11/3/2015 Expiry Date: 31/3/2025 Issue No: 1 Version Start Date: 11/3/2015 Version End Date:
Not shown	1986	W	527420 182620	Status: Active Licence No: 28/39/39/0115 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Thames Groundwater Point: Abbey Lodge, Park Road, London Nw8- two Boreholes Data Type: Point Name: ABBEY LODGE RTM COMPANY LIMITED	Annual Volume (m <sup>3</sup> ): 28640 Max Daily Volume (m <sup>3</sup> ): 100 Original Application No: - Original Start Date: 5/9/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/6/2006 Version End Date:
Not shown	1986	W	527420 182620	Status: Historical Licence No: 28/39/39/0115 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Thames Groundwater Point: Two Boreholes At Abbey Lodge, Park Road, London Nw8 Data Type: Point Name: WOOD MANAGEMENT TRUSTEES LTD	Annual Volume (m <sup>3</sup> ): 28640 Max Daily Volume (m <sup>3</sup> ): 100 Original Application No: - Original Start Date: 5/9/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/11/1991 Version End Date:
Not shown	1992	S	530089 180562	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	Annual Volume (m <sup>3</sup> ): 140000 Max Daily Volume (m <sup>3</sup> ): 760 Original Application No: GEN/39/117 Original Start Date: 1/4/2013 Expiry Date: 31/3/2025 Issue No: 2 Version Start Date: 1/4/2013 Version End Date:
Not shown	1994	S	530090 180560	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	Annual Volume (m <sup>3</sup> ): 52000 Max Daily Volume (m <sup>3</sup> ): 1300 Original Application No: GEN/39/117 Original Start Date: 24/4/2008 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 24/4/2008 Version End Date:

## 6.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site?

Identified

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details
Not shown	1186	N	529750 183600	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 Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Application No: - Original Start Date: 18/9/1991 Expiry Date: - Issue No: 100 Version Start Date: 18/9/1991 Version End Date:
Not shown	1186	N	529750 183600	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 Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 18/9/1991 Version End Date:
Not shown	1381	NE	530310 183520	Status: Active 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 Annual Volume (m <sup>3</sup> ): 7010000 Max Daily Volume (m <sup>3</sup> ): 19520 Application No: - Original Start Date: 18/7/1980 Expiry Date: - Issue No: 101 Version Start Date: 17/12/2007 Version End Date:
Not shown	1815	NW	528500 184020	Status: Active Licence No: 28/39/39/0164 Details: Non-Evaporative Cooling Direct Source: Thames Surface Water - Non Tidal Point: Southampton Bridge, London, Nw8 - Regents Canal Data Type: Point Name: Canal and River Trust Annual Volume (m <sup>3</sup> ): 7010000 Max Daily Volume (m <sup>3</sup> ): 19520 Application No: - Original Start Date: 18/7/1980 Expiry Date: - Issue No: 101 Version Start Date: 17/12/2007 Version End Date:
Not shown	1820	NW	528490 184020	Status: Historical Licence No: 28/39/39/0173 Details: Non-Evaporative Cooling Direct Source: Thames Surface Water - Non Tidal Point: Oval Road, Camden - Grand Union Regents Canal Data Type: Point Name: BRITISH WATERWAYS BOARD Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Application No: - Original Start Date: 8/12/1994 Expiry Date: - Issue No: 100 Version Start Date: 8/12/1994 Version End Date:

## 6.5 Potable Water Abstraction Licences

Are there any Potable Water Abstraction Licences within 2000m of the study site?

Identified

The following Potable Water Abstraction Licences records are represented as points, lines and regions on the SPZ and Potable Water Abstraction Licences Map (6c):

ID	Distance (m)	Direction	NGR	Details
Not shown	1077	S	529100 181400	<p>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</p> <p>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: Version End Date:</p>
Not shown	1077	S	529100 181400	<p>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</p> <p>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: Version End Date:</p>
Not shown	1152	S	529010 181350	<p>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</p> <p>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: Version End Date:</p>
Not shown	1171	S	529010 181330	<p>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: Pontsarn Investments Limited</p> <p>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: Version End Date:</p>
Not shown	1203	S	529000 181300	<p>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</p> <p>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: Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details
Not shown	1203	S	529000 181300	<p>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</p> <p>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: Version End Date:</p>
Not shown	1586	W	527850 182100	<p>Status: Historical Licence No: 28/39/39/0070 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Abbey House, Baker Street- Borehole Data Type: Point Name: BASKERVILLE ESTATES (GP) LIMITED</p> <p>Annual Volume (m<sup>3</sup>): - Max Daily Volume (m<sup>3</sup>): - Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 102 Version Start Date: Version End Date:</p>
Not shown	1635	W	527800 182100	<p>Status: Historical Licence No: 28/39/39/0070 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole At Abbey House, Baker Street, London Nw1 Data Type: Point Name: ABBEY NATIONAL PLC</p> <p>Annual Volume (m<sup>3</sup>): - Max Daily Volume (m<sup>3</sup>): - Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:</p>
Not shown	1658	W	527800 182000	<p>Status: Historical Licence No: 28/39/39/0021 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Thames Groundwater Point: Two Boreholes At Dorset House, Gloucester Place, London. W1 Data Type: Point Name: BELLNORTH LIMITED</p> <p>Annual Volume (m<sup>3</sup>): 56370 Max Daily Volume (m<sup>3</sup>): 318 Original Application No: - Original Start Date: 13/12/1965 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:</p>
Not shown	1658	W	527800 182000	<p>Status: Active Licence No: 28/39/39/0021 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Thames Groundwater Point: Dorset House, London- 2 Boreholes Data Type: Point Name: Dorset House Residential Limited</p> <p>Annual Volume (m<sup>3</sup>): 56370 Max Daily Volume (m<sup>3</sup>): 318 Original Application No: NPS/WR/017647 Original Start Date: 13/12/1965 Expiry Date: - Issue No: 103 Version Start Date: Version End Date:</p>
Not shown	1836	E	531239 182777	<p>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</p> <p>Annual Volume (m<sup>3</sup>): 1261440 Max Daily Volume (m<sup>3</sup>): 3456 Original Application No: NPS/WR/009226 Original Start Date: 1/4/2013 Expiry Date: 31/3/2025 Issue No: 1 Version Start Date: Version End Date:</p>
Not shown	1874	E	531280 182760	<p>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</p> <p>Annual Volume (m<sup>3</sup>): 1261440 Max Daily Volume (m<sup>3</sup>): 3456 Original Application No: WRA/R/2/2 Original Start Date: 8/1/2004 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details
Not shown	1986	W	527420 182620	Status: Active Licence No: 28/39/39/0115 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Thames Groundwater Point: Abbey Lodge, Park Road, London Nw8-two Boreholes Data Type: Point Name: ABBEY LODGE RTM COMPANY LIMITED Annual Volume (m <sup>3</sup> ): 28640 Max Daily Volume (m <sup>3</sup> ): 100 Original Application No: - Original Start Date: 5/9/1966 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:
Not shown	1986	W	527420 182620	Status: Historical Licence No: 28/39/39/0115 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Thames Groundwater Point: Two Boreholes At Abbey Lodge, Park Road, London Nw8 Data Type: Point Name: WOOD MANAGEMENT TRUSTEES LTD Annual Volume (m <sup>3</sup> ): 28640 Max Daily Volume (m <sup>3</sup> ): 100 Original Application No: - Original Start Date: 5/9/1966 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:

## 6.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site?

None identified

Database searched and no data found.

## 6.7 Source Protection Zones within Confined Aquifer

Are there any Source Protection Zones within the Confined Aquifer within 500m of the study site? None identified

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

## 6.8 Groundwater Vulnerability and Soil Leaching Potential

Is there any Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site? Identified

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.

## 6.9 River Quality

Is there any Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site? None identified

### 6.9.1 Biological Quality:

Database searched and no data found.

### 6.9.2 Chemical Quality:

Database searched and no data found.

## 6.10 Ordnance Survey MasterMap Water Network

Are there any Ordnance Survey MasterMap Water Network entries within 500m of the study site? #DRN\_Count#

#NDF\_DRN\_tag#

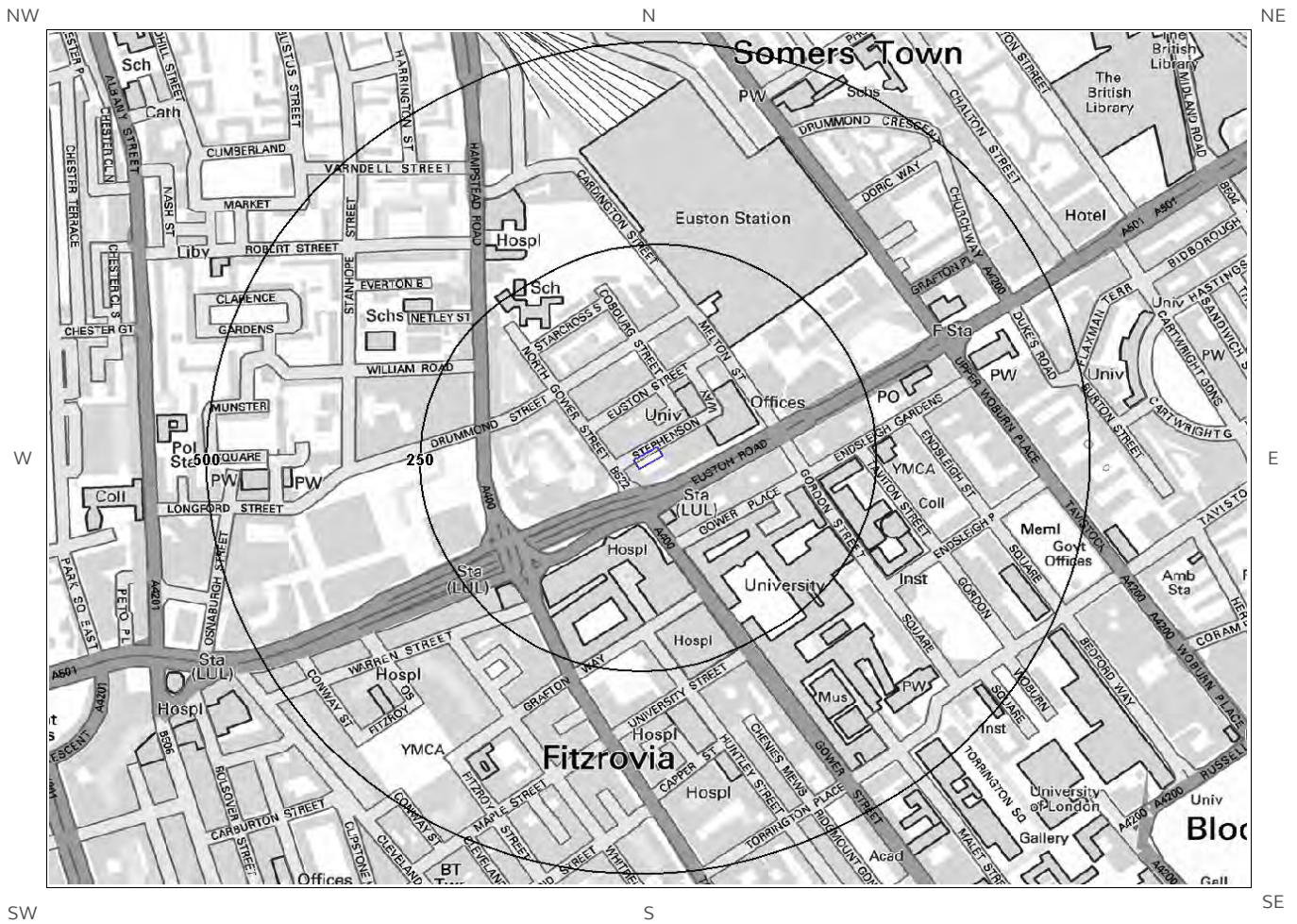
## 6.11 Surface Water Features

Are there any surface water features within 250m of the study site? None identified

Database searched and no data found.



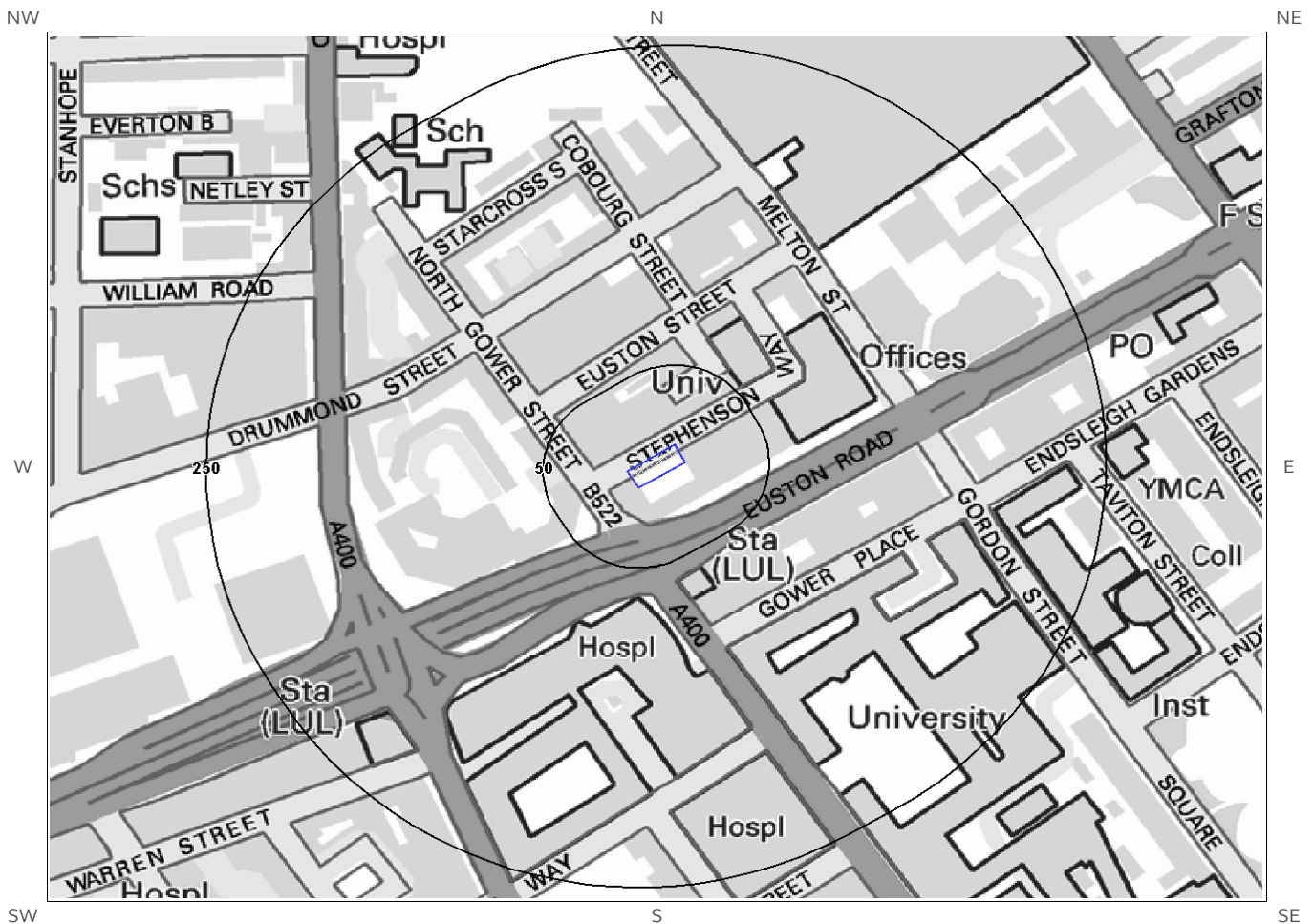
# 7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



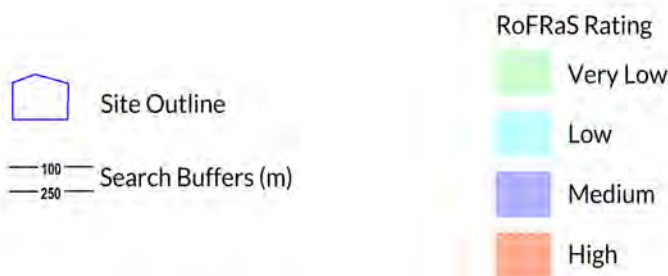
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# 7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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# 7 Flooding

## 7.1 River and Coastal Zone 2 Flooding

Is the site within 250m of an Environment Agency/Natural Resources Wales Zone 2 floodplain? None identified

Environment Agency/Natural Resources Wales Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

Database searched and no data found.

---

## 7.2 River and Coastal Zone 3 Flooding

Is the site within 250m of an Environment Agency/Natural Resources Wales Zone 3 floodplain? None identified

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

Database searched and no data found.

---

## 7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

What is the highest risk of flooding onsite? Very Low

The Environment Agency/Natural Resources Wales RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a Very Low (less than 1 in 1000) chance of flooding in any given year.

---

## 7.4 Flood Defences

Are there any Flood Defences within 250m of the study site? None identified

Database searched and no data found.

---

## 7.5 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site? None identified

---

## 7.6 Areas benefiting from Flood Storage

Are there any areas used for Flood Storage within 250m of the study site? None identified

---

## 7.7 Groundwater Flooding Susceptibility Areas

7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Identified

Does this relate to Clearwater Flooding or Superficial Deposits Flooding? Superficial Deposits Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

---

7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?

Potential at Surface

Where potential for groundwater flooding to occur at surface is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

---

## 7.8 Groundwater Flooding Confidence Areas

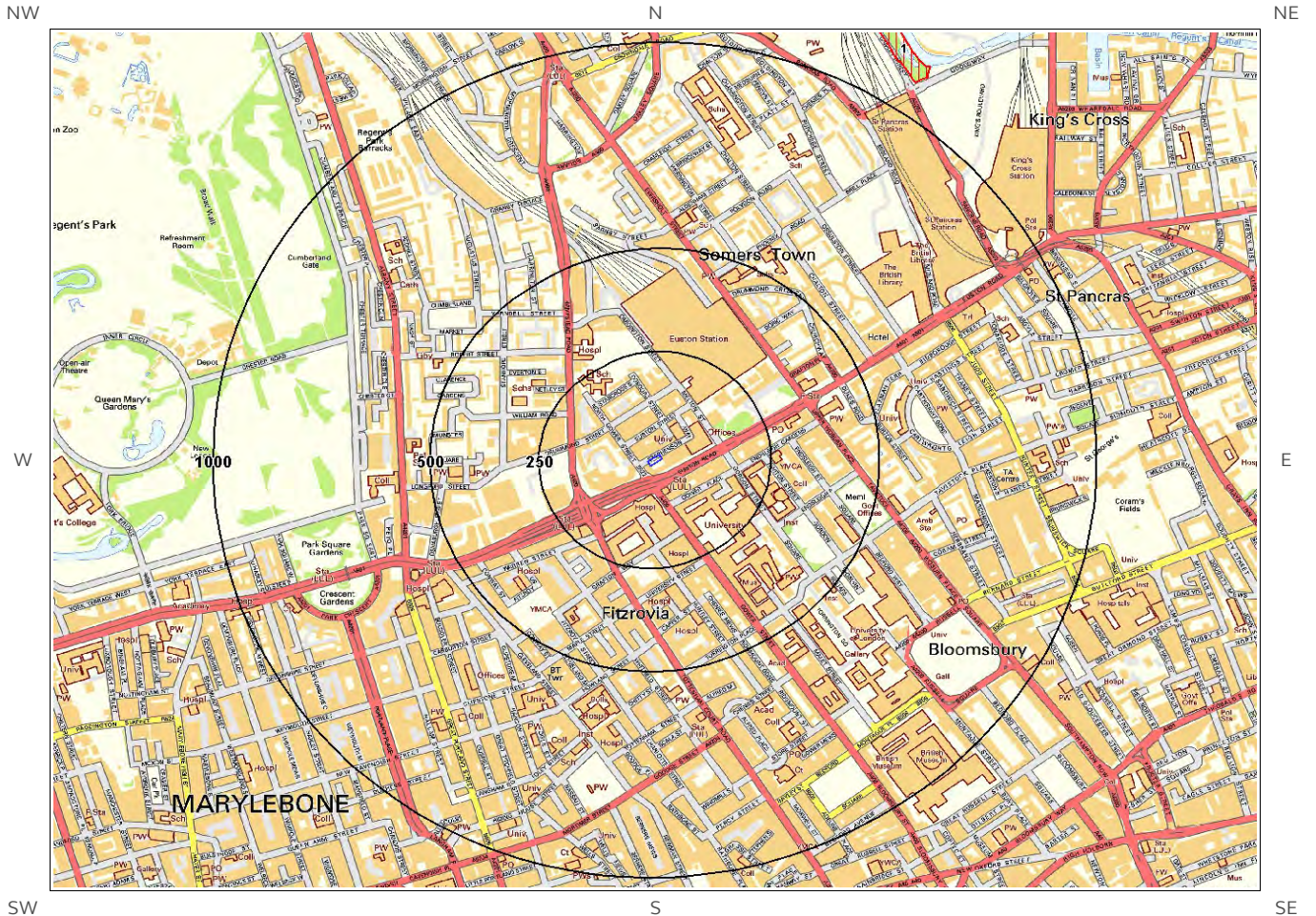
What is the British Geological Survey confidence rating in this result? Moderate

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

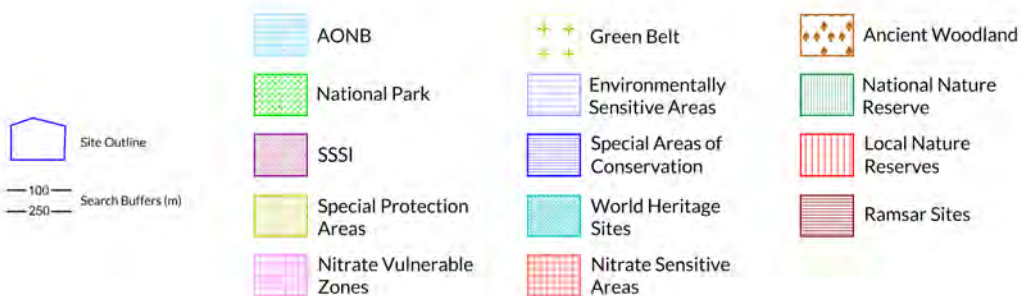
The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.



# 8. Designated Environmentally Sensitive Sites Map



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# 8. Designated Environmentally Sensitive Sites

Presence of Designated Environmentally Sensitive Sites within 2000m of the study site? Identified

---

## 8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

0

Database searched and no data found.

---

## 8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

---

## 8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

---

## 8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

0

Database searched and no data found.

---

## 8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

---



### 8.6 Records of Ancient Woodland within 2000m of the study site:

0

Database searched and no data found.

### 8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

1

The following Local Nature Reserve (LNR) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	LNR Name	Data Source
1	1078	NE	Camley Street Nature Park	Natural England

### 8.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

### 8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

### 8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

0

Database searched and no data found.

### 8.11 Records of National Parks (NP) within 2000m of the study site:

0

Database searched and no data found.

**8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:**

0

Database searched and no data found.

---

**8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:**

0

Database searched and no data found.

---

**8.14 Records of Green Belt land within 2000m of the study site:**

0

Database searched and no data found.

---

# 9. Natural Hazards Findings

## 9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a **Groundsure Geo Insight**, available from our **website**. The following information has been found:

### 9.1.1 Shrink Swell

What is the maximum Shrink-Swell\* hazard rating identified on the study site? Moderate

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly high plasticity. Do not plant or remove trees or shrubs near to buildings without expert advice about their effect and management. For new build, consideration should be given to advice published by the National House Building Council (NHBC) and the Building Research Establishment (BRE). There is a probable increase in construction cost to reduce potential shrink-swell problems. For existing property, there is a probable increase in insurance risk during droughts or where vegetation with high moisture demands is present.

### 9.1.2 Landslides

What is the maximum Landslide\* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

### 9.1.3 Soluble Rocks

What is the maximum Soluble Rocks\* hazard rating identified on the study site? Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

\* This indicates an automatically generated 50m buffer and site.

### 9.1.4 Compressible Ground

What is the maximum Compressible Ground\* hazard rating identified on the study site? Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

### 9.1.5 Collapsible Rocks

What is the maximum Collapsible Rocks\* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

### 9.1.6 Running Sand

What is the maximum Running Sand\*\* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

\* This indicates an automatically generated 50m buffer and site.

## 9.2 Radon

### 9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

---

### 9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.



# 10. Mining

## 10.1 Coal Mining

Are there any coal mining areas within 75m of the study site? None identified

Database searched and no data found.

---

## 10.2 Non-Coal Mining

Are there any Non-Coal Mining areas within 50m of the study site boundary? None identified

Database searched and no data found.

---

## 10.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site? None identified

Guidance: No Guidance Required.

---

# Contact Details

**Groundsure Helpline**  
Telephone: 08444 159 000  
info@groundsure.com

**British Geological Survey Enquiries**

Kingsley Dunham Centre  
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Fax: 0115 936 3276.  
Email:

Web: [www.bgs.ac.uk](http://www.bgs.ac.uk)

BGS Geological Hazards Reports and general geological enquiries:  
[enquiries@bgs.ac.uk](mailto:enquiries@bgs.ac.uk)

**Environment Agency**

National Customer Contact Centre, PO Box 544  
Rotherham, S60 1BY  
Tel: 03708 506 506

Web: [www.environment-agency.gov.uk](http://www.environment-agency.gov.uk)

Email: [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk)

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**Ordnance Survey**

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Tel: 08456 050505

**Local Authority**

Authority: London Borough of Camden  
Phone: 020 7974 4444  
Web: <http://www.camden.gov.uk/>  
Address: Camden Town Hall, Judd Street, London, WC1H 9JE

**Gemapping PLC**

Virginia Villas, High Street, Hartley Witney,  
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Acknowledgements: Site of Special Scientific Interest, National Nature Reserve, Ramsar Site, Special Protection Area, Special Area of Conservation data is provided by, and used with the permission of, Natural England who retain the Copyright and Intellectual Property Rights for the data.

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**Client Ref:** 775084  
**Report Ref:** GS-4887399  
**Grid Ref:** 529415, 182446

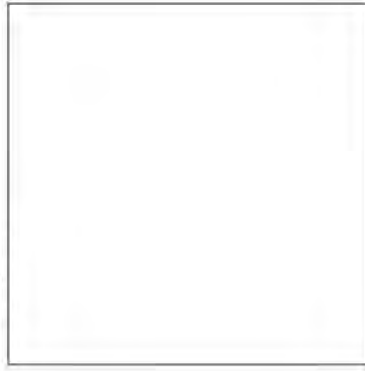
**Map Name:** 1056 Scale Town Plan

**Map date:** 1870

**Scale:** 1:1,056

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





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Revised N/A  
Edition N/A  
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**Scale:** 1:1,056

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