

Site History

Figure S

Reproduced from the 1974 edition Ordnance Survey sheets TQ3081NE & TQ3082SE at 1:1250 scale with the permission of the Controller of Her Majesty's Stationery Office, © Crown Copyright. All rights reserved. Licence number AL100005523



Project : 27 John's Mews, London WC1

Client : Brendon O'Toole

**GROUND
ENGINEERING
LIMITED**

Peterborough Tel : 01733 566566

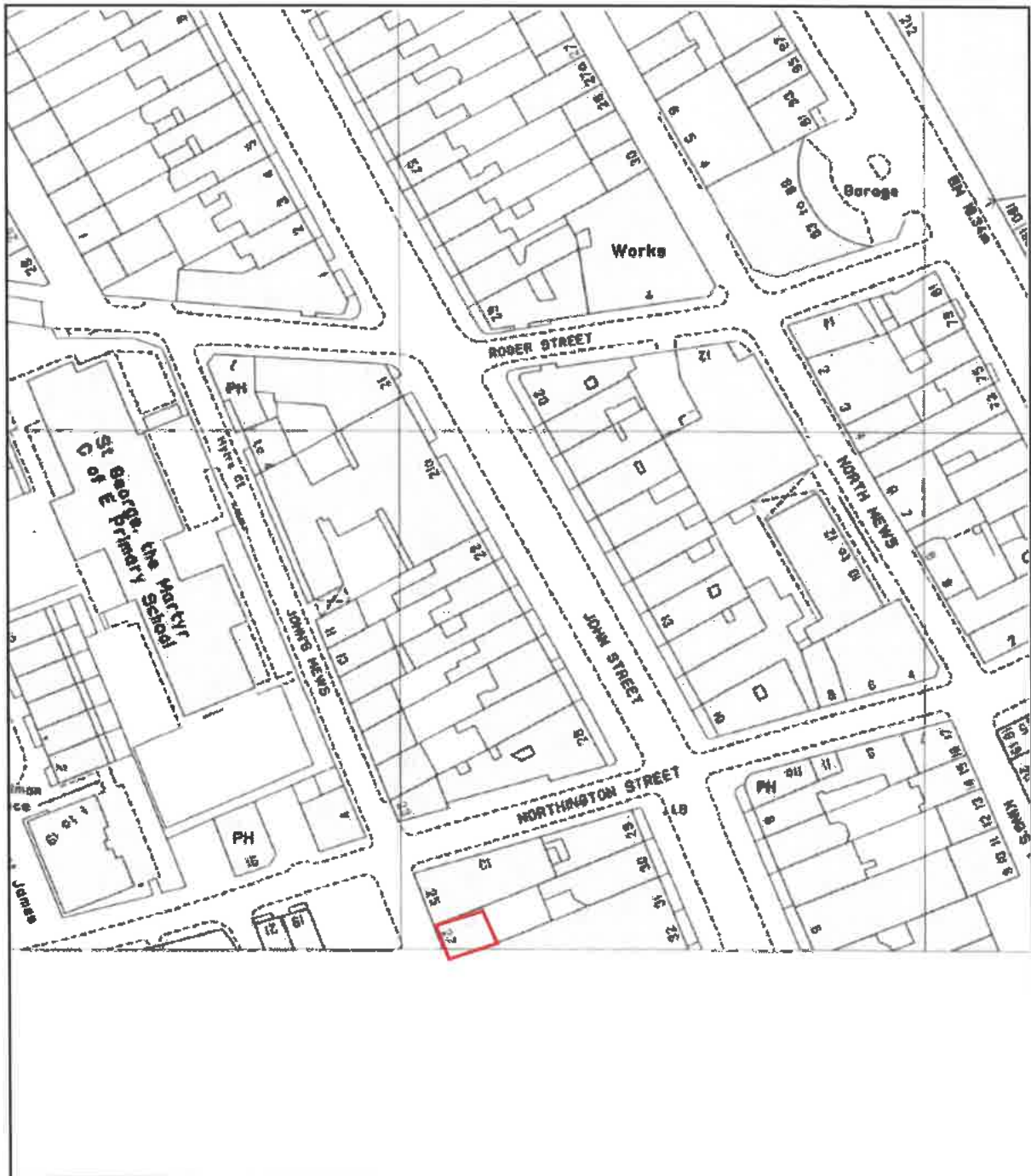
Project No.

C14337

Site History

Figure T

Reproduced from the 1982 edition Ordnance Survey sheet TQ3082SE at 1:1250 scale with the permission of the Controller of Her Majesty's Stationery Office, © Crown Copyright. All rights reserved. Licence number AL100005523



Project : 27 John's Mews, London WC1

Client : Brendon O'Toole

**GROUND
ENGINEERING
LIMITED**

Peterborough Tel : 01733 566566

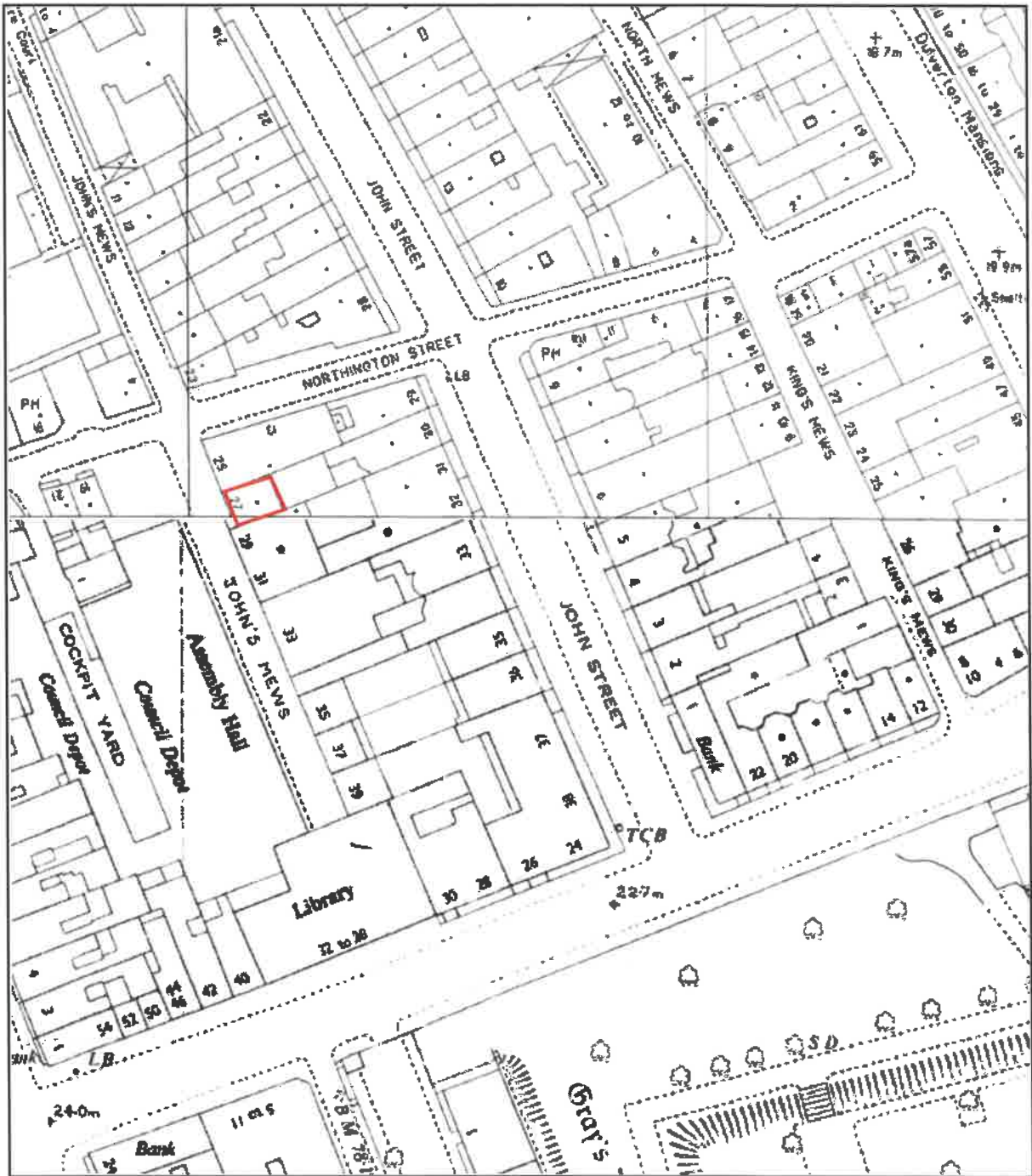
Project No.

C14337

Site History

Figure U

Reproduced from the 1990-91 edition Ordnance Survey sheets TQ3081NE & TQ3082SE at 1:1250 scale with the permission of the Controller of Her Majesty's Stationery Office. © Crown Copyright. All rights reserved. Licence number AL10005523



Project : 27 John's Mews, London WC1

Client : Brendon O'Toole

**GROUND
ENGINEERING
LIMITED**

Peterborough Tel : 01733 566566

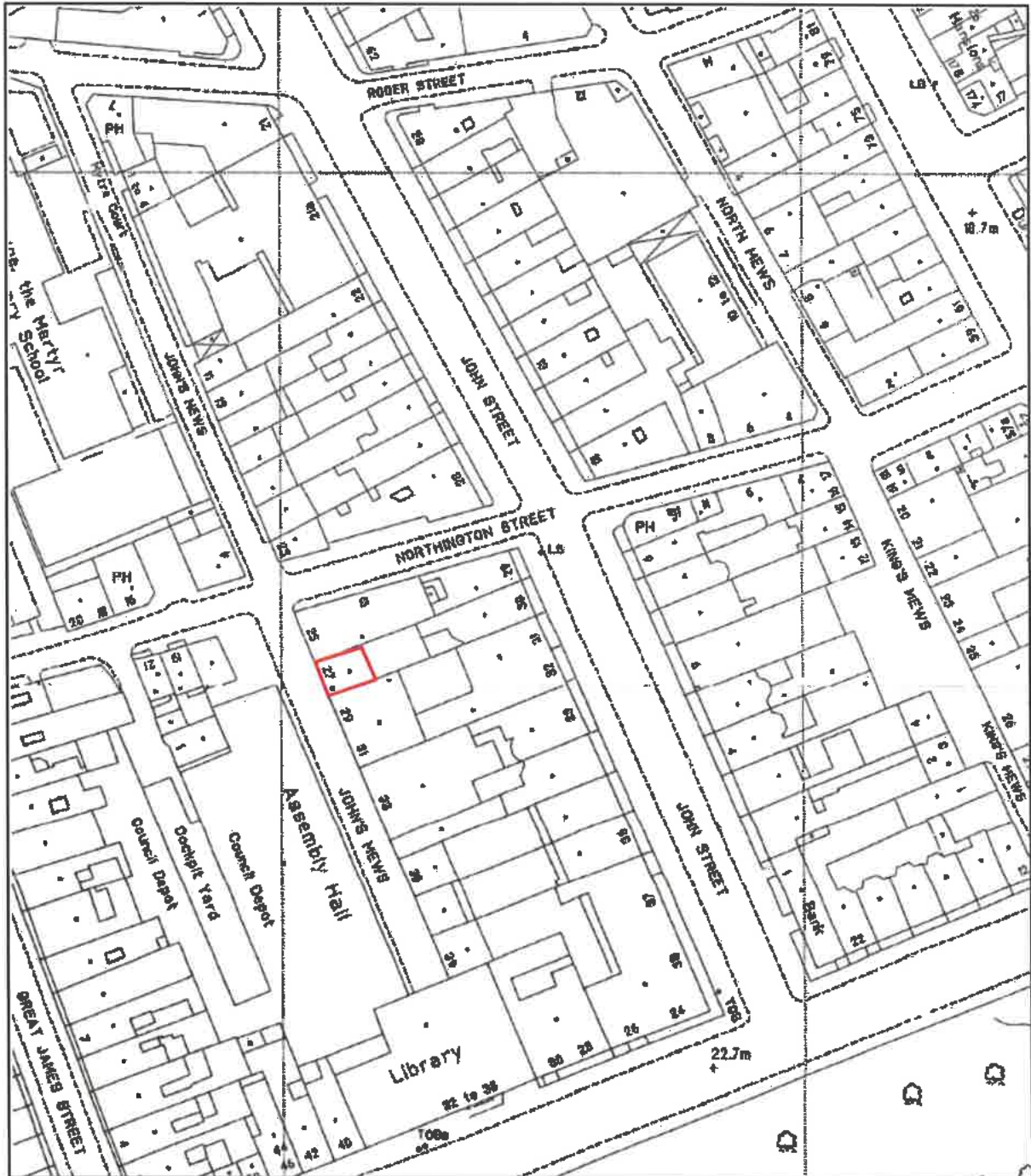
Project No.

C14337

Site History

Figure V

Reproduced from the 1995 edition Ordnance Survey sheets TQ3081NE & TQ3082SE at 1:1250 scale with the permission of the Controller of Her Majesty's Stationery Office, © Crown Copyright. All rights reserved. Licence number AL100005523



Project : 27 John's Mews, London WC1

Client : Brendon O'Toole

**GROUND
ENGINEERING
LIMITED**

Peterborough Tel : 01733 566566

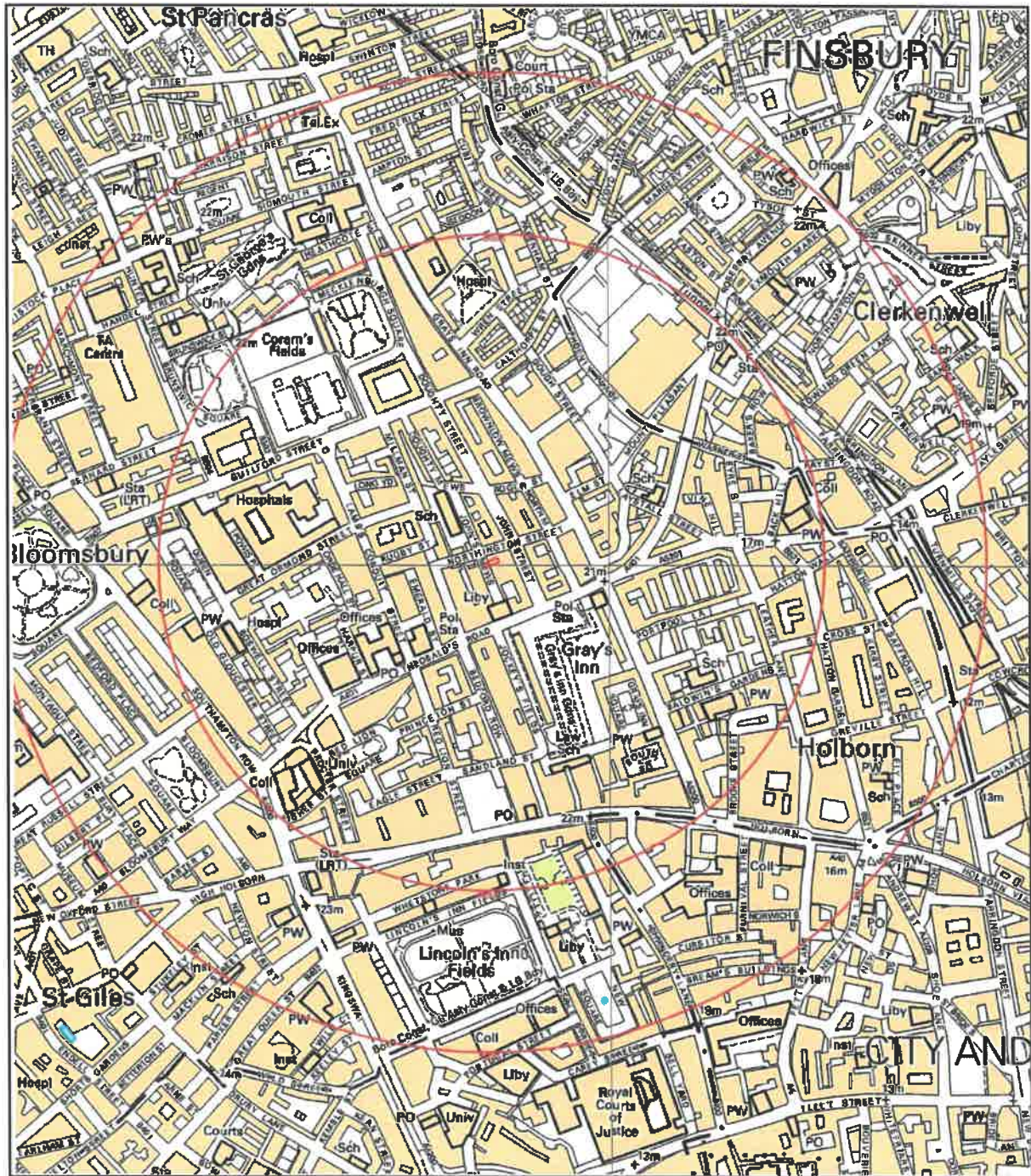
Project No.

C14337

Site History

Figure W

Reproduced from the 2002 edition Ordnance Survey Raster Map at 1:10,000 scale with the permission of the Controller of Her Majesty's Stationary Office, © Crown Copyright. All rights reserved. Licence number AL10000523



Project : 27 John's Mews, London WC1

Client : Brendon O'Toole

**GROUND
ENGINEERING
LIMITED**

Peterborough Tel : 01733 566566

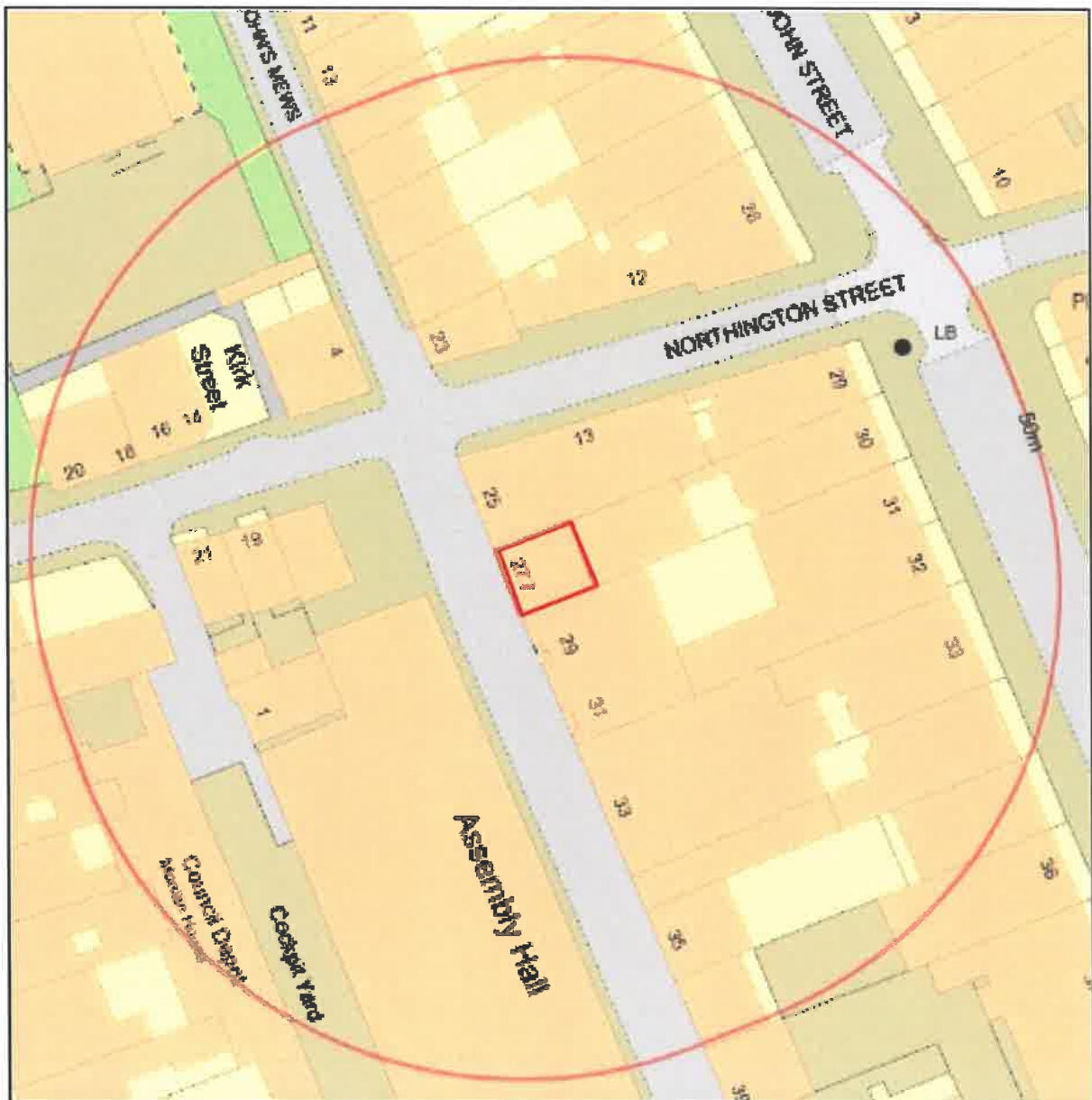
Project No.

C14337

Site History

Figure X

Reproduced from the 2017 edition Ordnance Survey National Grid Map Not to Scale with the permission of the Controller of Her Majesty's Stationery Office, © Crown Copyright. All rights reserved. Licence number AL100005523



Project : 27 John's Mews, London WC1

Client : Brendon O'Toole

**GROUND
ENGINEERING
LIMITED**

Peterborough Tel : 01733 566566

Project No.

C14337

APPENDIX 2

ENVIRONMENTAL SEARCHES

Address: 27, JOHN'S MEWS, LONDON, WC1N 2NS
Date: 20 Nov 2017
Reference: GS-4481139
Client: Ground Engineering Limited



Aerial Photograph Capture date: 07-Jun-2015
Grid Reference: 530813,182003
Site Size: 0.02ha

Report Reference: GS-4481139
Client Reference: C14337

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	13
1.3 Additional Information – Historical Energy Features Database	14
1.4 Additional Information – Historical Petrol and Fuel Site Database	15
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	15
1.6 Potentially Infilled Land	16
2. Environmental Permits, Incidents and Registers Map	17
2. Environmental Permits, Incidents and Registers	18
2.1 Industrial Sites Holding Licences and/or Authorisations	18
2.1.1 Records of historic IPC Authorisations within 500m of the study site	18
2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site	18
2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site	18
2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site	18
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	19
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	23
2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site	23
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	23
2.2 Dangerous or Hazardous Sites	23
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents	23
2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site	23
2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site	23
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	24
3. Landfill and Other Waste Sites Map	25
3. Landfill and Other Waste Sites	26
3.1 Landfill Sites	26
3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site	26
3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site	26
3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site	26
3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site	27
3.2 Other Waste Sites	27
3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site	27
3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site	27
4. Current Land Use Map	29
4. Current Land Uses	30
4.1 Current Industrial Data	30
4.2 Petrol and Fuel Sites	32
4.3 National Grid High Voltage Underground Electricity Transmission Cables	32
4.4 National Grid High Pressure Gas Transmission Pipelines	32

5. Geology	33
5.1 Artificial Ground and Made Ground.....	33
5.2 Superficial Ground and Drift Geology	33
5.3 Bedrock and Solid Geology	33
6 Hydrogeology and Hydrology	34
6a. Aquifer Within Superficial Geology	34
6b. Aquifer Within Bedrock Geology and Abstraction Licenses	35
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses	36
6d. Hydrogeology – Source Protection Zones within confined aquifer	37
6e. Hydrology – Detailed River Network and River Quality	38
6.Hydrogeology and Hydrology	39
6.1 Aquifer within Superficial Deposits.....	39
6.2 Aquifer within Bedrock Deposits.....	39
6.3 Groundwater Abstraction Licences.....	40
6.4 Surface Water Abstraction Licences.....	53
6.5 Potable Water Abstraction Licences.....	53
6.6 Source Protection Zones.....	60
6.7 Source Protection Zones within Confined Aquifer.....	61
6.8 Groundwater Vulnerability and Soil Leaching Potential.....	61
6.9 River Quality.....	61
6.9.1 Biological Quality:.....	61
6.9.2 Chemical Quality:.....	61
6.10 Detailed River Network.....	62
6.11 Surface Water Features.....	62
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)	63
7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map	64
7 Flooding	65
7.1 River and Coastal Zone 2 Flooding.....	65
7.2 River and Coastal Zone 3 Flooding.....	65
7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating.....	65
7.4 Flood Defences.....	65
7.5 Areas benefiting from Flood Defences.....	65
7.6 Areas benefiting from Flood Storage.....	66
7.7 Groundwater Flooding Susceptibility Areas.....	66
7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes.....	66
7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?.....	66
7.8 Groundwater Flooding Confidence Areas.....	66
8. Designated Environmentally Sensitive Sites Map	67
8. Designated Environmentally Sensitive Sites	68
8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:.....	68
8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:.....	68
8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:.....	68
8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:.....	68
8.5 Records of Ramsar sites within 2000m of the study site:.....	68
8.6 Records of Ancient Woodland within 2000m of the study site:	69
8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:.....	69
8.8 Records of World Heritage Sites within 2000m of the study site:.....	69
8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:	69

8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:	69
8.11 Records of National Parks (NP) within 2000m of the study site:	69
8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:.....	70
8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:.....	70
8.14 Records of Green Belt land within 2000m of the study site:.....	70
9. Natural Hazards Findings	71
9.1 Detailed BGS GeoSure Data.....	71
9.1.1 Shrink Swell.....	71
9.1.2 Landslides.....	71
9.1.3 Soluble Rocks.....	71
9.1.4 Compressible Ground.....	72
9.1.5 Collapsible Rocks.....	72
9.1.6 Running Sand.....	72
9.2 Radon.....	73
9.2.1 Radon Affected Areas.....	73
9.2.2 Radon Protection.....	73
10. Mining	74
10.1 Coal Mining.....	74
10.2 Non-Coal Mining.....	74
10.3 Brine Affected Areas	74
Contact Details	75
Standard Terms and Conditions	77

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.

Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	0	0	18	39
1.2 Additional Information – Historical Tank Database	0	0	1	13
1.3 Additional Information – Historical Energy Features Database	0	0	11	46
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	1	0	8	6
1.6 Potentially Infilled Land	0	0	1	3

Section 2: Environmental Permits, Incidents and Registers	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	1	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	3	5
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	22
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	0	0
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
3.1 Landfill Sites						
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	2	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
3.2 Landfill and Other Waste Sites Findings						
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	3	4

Section 4: Current Land Use

	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	0	9	31	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?	No
5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?	Yes
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 6: Hydrogeology and Hydrology

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.1 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site?					Yes	
6.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site?					Yes	
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	0	0	10	78
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	4
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	3	40
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 Detailed River Network entries within 500m of the site	0	0	0	2	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?	No					
7.2 Are there any Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site?	No					
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?	No					
7.5 Are there any areas benefiting from Flood Defences within 250m of the study site?	No					
7.6 Are there any areas used for Flood Storage within 250m of the study site?	No					
7.7 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Potential below 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?

Very Low

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

Negligible

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 property 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?

No

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

No

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

No

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.

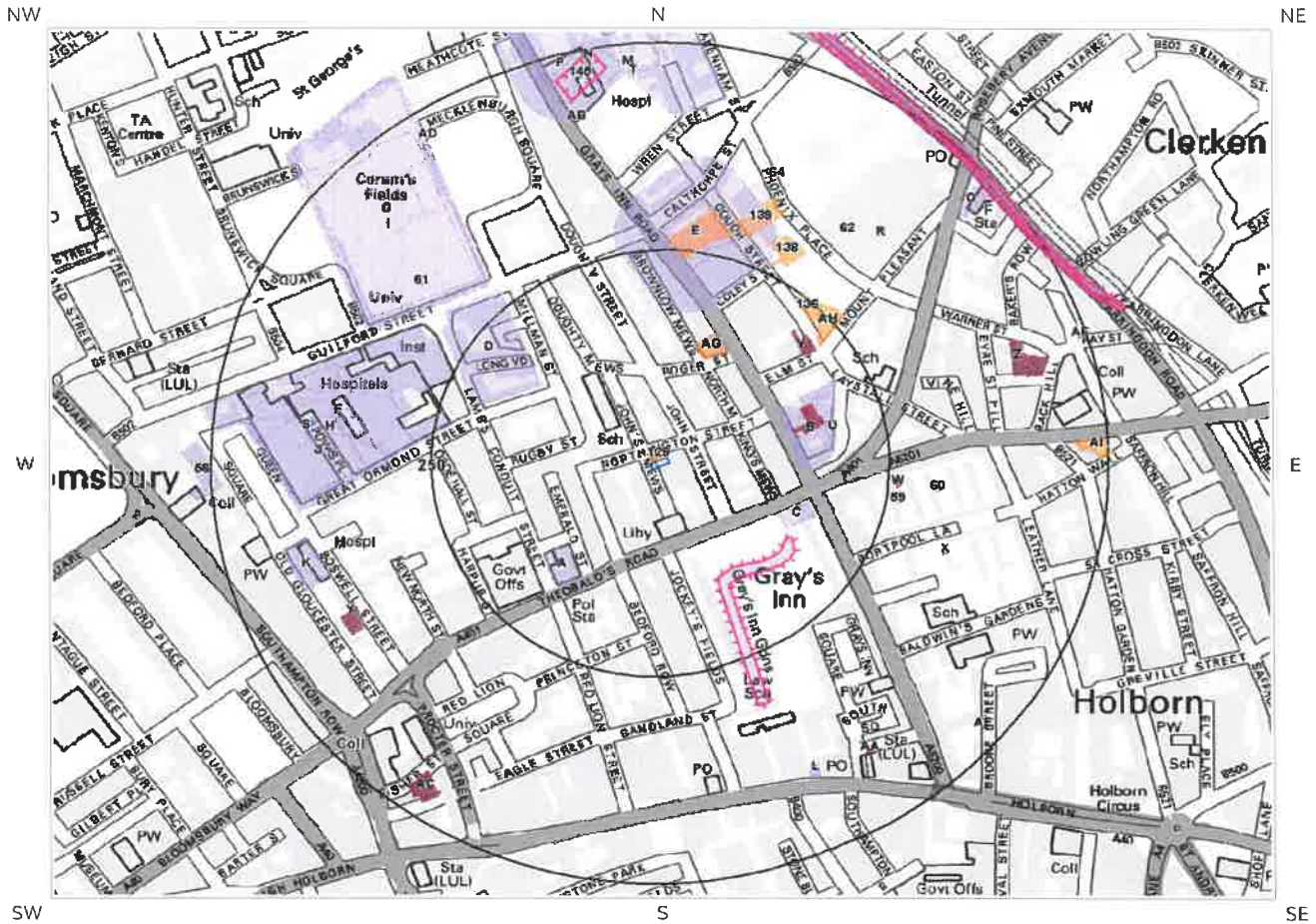
Note: Maps

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).

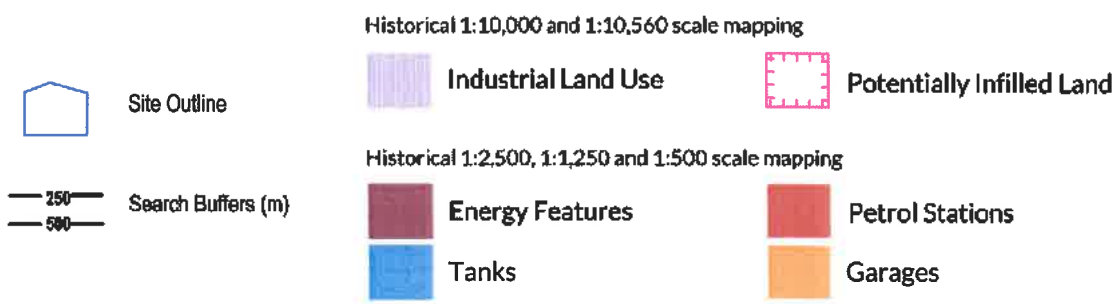
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

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



© Crown copyright and database rights 2017.
Ordnance Survey license 100035207.



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: 57

ID	Distance [m]	Direction	Use	Date
1A	136	SW	Police Station	1971
2A	136	SW	Police Station	1976
3A	136	SW	Police Station	1994
4B	136	NE	Unspecified Workhouse	1895
5B	137	E	Unspecified Workhouse	1898
6C	139	SE	Police Station	1971
7C	139	SE	Police Station	1976
8C	139	SE	Police Station	1994
9AJ	145	SE	Unspecified Ground Workings	1898
10B	150	E	Unspecified Workhouse	1895
11C	156	E	Police Station	1966
12D	157	NW	Unspecified Yard	1920
13D	157	NW	Unspecified Yard	1938
14E	177	N	Hospital	1894
15E	222	N	Hospital	1911
16F	231	W	Hospital	1971
17F	231	W	Hospital	1976
18F	231	W	Hospital	1994
19H	272	W	Hospital	1966
20G	282	NW	Hospital	1911
21G	286	NW	Hospital	1882
22G	287	NW	Hospital	1894
23J	292	W	Hospitals	1895
24H	293	W	Hospitals	1898
25I	296	NW	Hospital	1938
26I	296	NW	Hospital	1920
27J	297	W	Hospitals	1895
28S	324	W	Hospital	1957
29K	387	W	Hospital	1976
30K	387	W	Hospital	1994
31K	387	W	Hospital	1971
32K	388	W	Hospital	1966
33L	396	SE	Unspecified Station	1938

34L	396	SE	Unspecified Station	1920
35L	403	SE	Unspecified Station	1948
36M	411	N	Hospital	1976
37M	411	N	Hospital	1994
38P	422	N	Hospital	1882
39N	429	N	Hospital	1957
40N	429	N	Hospital	1971
41N	429	N	Hospital	1966
42O	443	NE	Fire Station	1971
43O	450	NE	Fire Station	1957
44O	455	NE	Fire Station	1966
45O	457	NE	Fire Station	1976
46O	457	NE	Fire Station	1994
47M	465	N	Hospital	1948
48P	467	N	Hospital	1948
49M	468	N	Hospital	1920
50M	468	N	Hospital	1938
51P	468	N	Hospital	1911
52P	473	N	Hospital	1894
53P	473	N	Hospital	1938
54P	473	N	Hospital	1920
55Q	486	NE	Tunnel	1894
56	488	W	Hospitals	1898
57Q	493	NE	Tunnel	1882

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:

14

ID	Distance (m)	Direction	Use	Date
58U	189	E	Unspecified Tank	1878
59	261	E	Unspecified Tank	1916
60	303	E	Unspecified Tank	1916
61	336	NW	Unspecified Tank	1995
62	341	NE	Unspecified Tank	1896
63R	361	NE	Unspecified Tank	1896
64	361	N	Unspecified Tank	1952
65R	368	NE	Unspecified Tank	1896
66S	384	W	Unspecified Tank	1994
67S	384	W	Unspecified Tank	1991
68S	384	W	Unspecified Tank	1982

69T	463	N	Unspecified Tank	1960
70T	463	N	Unspecified Tank	1951
71T	463	N	Unspecified Tank	1952

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:

57

ID	Distance (m)	Direction	Use	Date
72B	147	E	Electricity Substation	1951
73U	158	E	Electricity Substation	1952
74U	176	E	Electricity Substation	1952
75U	179	E	Electricity Substation	1954
76V	200	NE	Electricity Substation	1982
77V	200	NE	Electricity Substation	1991
78V	200	NE	Electricity Substation	1982
79V	200	NE	Electricity Substation	1974
80V	204	NE	Electricity Substation	1952
81V	204	NE	Electricity Substation	1951
82V	206	NE	Electricity Substation	1995
83W	258	E	Electricity Substation	1991
84W	258	E	Electricity Substation	1989
85W	258	E	Electricity Substation	1980
86W	258	E	Electricity Substation	1975
87W	258	E	Electricity Substation	1992
88W	258	E	Electricity Substation	1994
89X	327	E	Electricity Substation	1980
90X	327	E	Electricity Substation	1989
91X	327	E	Electricity Substation	1991
92X	327	E	Electricity Substation	1975
93X	328	E	Electricity Substation	1994
94X	328	E	Electricity Substation	1992
95Y	376	SW	Electricity Substation	1967
96Y	381	SW	Electricity Substation	1951
97Z	406	E	Electricity Substation	1982
98Z	406	E	Electricity Substation	1989
99Z	406	E	Electricity Substation	1991
100AA	410	SE	Electricity Substation	1975
101AA	410	SE	Electricity Substation	1989
102AA	410	SE	Electricity Substation	1980
103AA	410	SE	Electricity Substation	1991

104AA	413	SE	Electricity Substation	1994
105AA	413	SE	Electricity Substation	1992
106AB	417	N	Electricity Substation	1951
107AB	418	N	Electricity Substation	1952
108Z	420	E	Electricity Substation	1952
109Z	420	E	Electricity Substation	1954
110AC	446	SW	Electricity Substation	1967
111AC	447	SW	Electricity Substation	1991
112AC	447	SW	Electricity Substation	1990
113AC	447	SW	Electricity Substation	1951
114AD	464	NW	Electricity Substation	1995
115AC	466	SW	Electricity Substation	1995
116AD	466	NW	Electricity Substation	1974
117AD	466	NW	Electricity Substation	1982
118AD	466	NW	Electricity Substation	1982
119AD	466	NW	Electricity Substation	1991
120AE	472	SE	Electricity Substation	1991
121AE	472	SE	Electricity Substation	1989
122AE	474	SE	Electricity Substation	1992
123AE	474	SE	Electricity Substation	1994
124AF	490	E	Electricity Substation	1992
125AF	490	E	Electricity Substation	1994
126AF	490	E	Electricity Substation	1982
127AF	490	E	Electricity Substation	1989
128AF	490	E	Electricity Substation	1991

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: 15

ID	Distance (m)	Direction	Use	Date
129	0	N	Garage	1960

130AG	126	N	Garage	1991
131AG	126	N	Garage	1982
132AG	126	N	Garage	1982
133AG	126	N	Garage	1974
134AH	220	NE	Garage	1954
135AH	222	NE	Garage	1952
136	232	NE	Garage	1951
137E	239	N	Garage	1951
138	258	NE	Garage	1951
139	281	N	Garage	1951
140AI	461	E	Garage	1989
141AI	461	E	Garage	1991
142AI	461	E	Garage	1982
143AI	462	E	Garage	1992

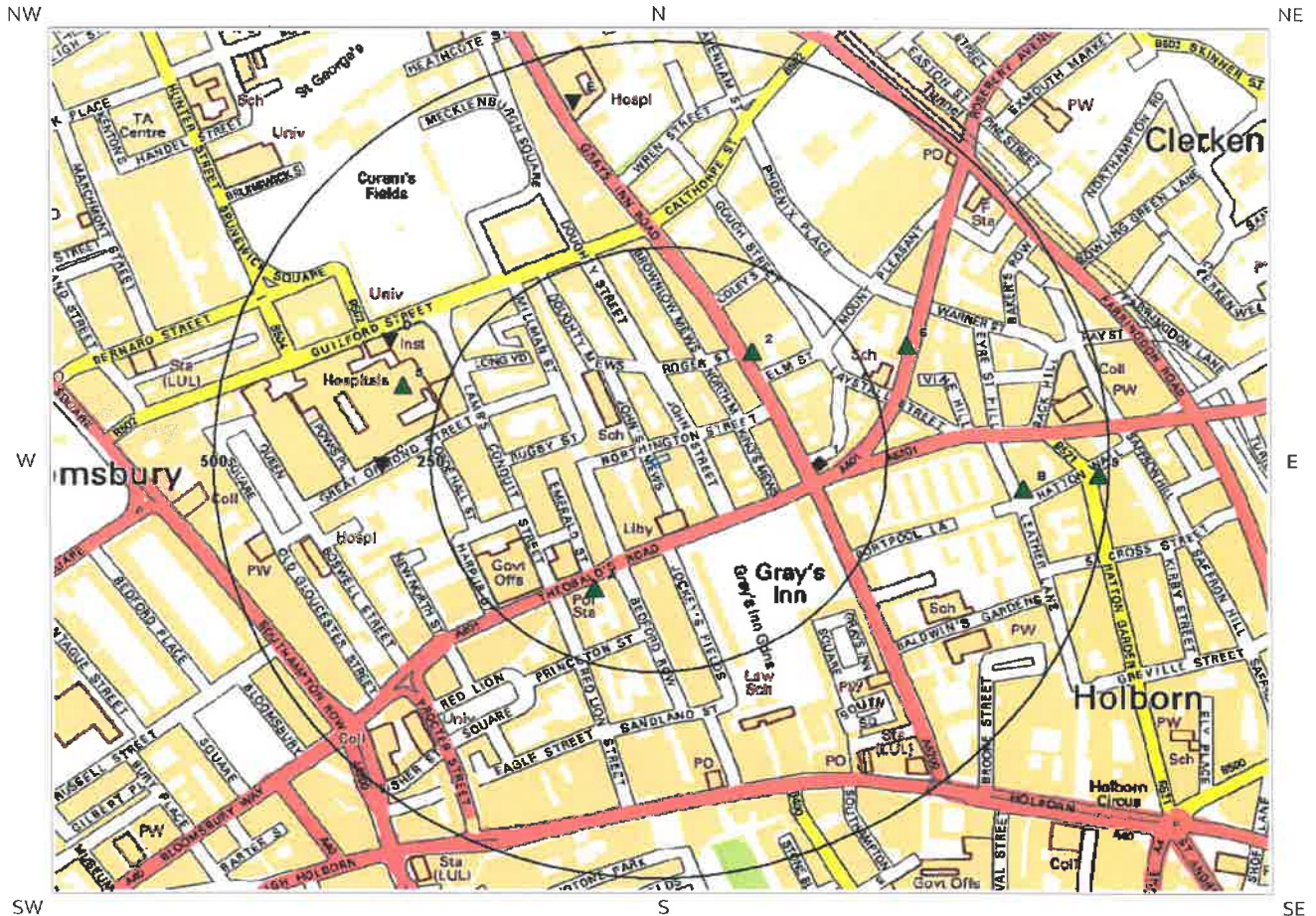
1.6 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 4

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

ID	Distance(m)	Direction	Use	Date
144AJ	145	SE	Unspecified Ground Workings	1898
145	442	N	Ponds	1938
146Q	486	NE	Tunnel	1894
147Q	493	NE	Tunnel	1882

2. Environmental Permits, Incidents and Registers Map



© Crown copyright and database rights 2017.
Ordnance Survey license 100035207.

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

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:

1

The following List 1 Dangerous Substance Inventory Site records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details
1	171	E	531000 182000	Name: Pentonville Plating Co Ltd, Queensland Road, London, Nw10 Status: Active Receiving Water: Thames Estuary Authorised Substances: Mercury (other), Cadmium

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:

8

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
2	156	NE	530924 182133	Address: Valet Dry Cleaners, 184 Gray's Inn Road, WC1X 8EW Process: Dry Cleaning Status: Current Permit Permit Type: Part B Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
3A	165	SW	530742 181846	Address: Matthew Daniel Dry Cleaners Ltd, 13 Theobalds Road, WC1X 8SL Process: Dry Cleaning Status: Historical Permit Permit Type: Part B Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
4A	165	SW	530742 181846	Address: Matthew Daniel Dry Cleaners Ltd, 13 Theobalds Road, WC1X 8SL Process: Dry Cleaning Status: Current Permit Permit Type: Part B Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
5	295	W	530526 182094	Address: Inst Child Health, Guildford St, WC1 1EH Process: incineration & furnace process Status: Historical Permit Permit Type: Part B Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
6	305	NE	531103 182141	Address: Dianas Dry Cleaners, 103 Clerkenwell Road, EC1R 5BX Process: Dry Cleaning Status: Current Permit Permit Type: Part B Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
7B	405	E	531232 181968	Address: Sue Smart, 86 Leather Lane, EC1N 7TT Process: Dry Cleaning Status: Historical Permit Permit Type: Part B Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
8B	405	E	531232 181968	Address: Sue Smart A.K.A Dolphin, 86 Leather Lane, London, EC1N 7TT Process: Dry Cleaning Status: Current Permit Permit Type: Part B Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified
9	489	E	531316 181986	Address: Mastermelt, 56 Hatton Garden, London, EC1N 8HP Process: Metal Processing 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:

22

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	Permission Number	Dates	Status
32C	306	W	530500 182000	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Great Ormond Street Hospital For Children Nhs Trust	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AB5415	Date of Approval:24/11/2008 Effective from:24/11/2008 Last date of update:2015-01-01	Effective
33C	306	W	530500 182000	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Great Ormond Street Hospital For Children Nhs Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	BG6243	Date of Approval:21/2/2005 Effective from:21/3/2005 Last date of update:2015-01-01	Superseded By Variation
34C	306	W	530500 182000	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Great Ormond Street Hospital For Children Nhs Trust	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AB5415	Date of Approval:11/1/2000 Effective from:11/1/2000 Last date of update:2015-01-01	Superseded By Variation
35C	306	W	530500 182000	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Great Ormond Street Hospital For Children Nhs Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	BG6243	Date of Approval:5/1/2006 Effective from:5/1/2006 Last date of update:2015-01-01	Superseded By Variation
36C	306	W	530500 182000	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Great Ormond Street Hospital For Children Nhs Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	BG6243	Date of Approval:24/11/2008 Effective from:22/12/2008 Last date of update:2015-01-01	Effective
37C	306	W	530500 182000	Hospital For Sick Children, Great Ormond Street, London, WC1N 3JH	Hospital For Sick Children	Disposal Of Radioactive Waste (was Rsa60 Section 6).	ABS431	Date of Approval:26/6/1993 Effective from:26/7/1993 Last date of update:2015-01-01	Revoked/cancelled
38C	306	W	530500 182000	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Great Ormond Street Hospital For Children Nhs Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	BG6243	Date of Approval:11/1/2000 Effective from:31/1/2000 Last date of update:2015-01-01	Superseded By Variation

ID	Distance (m)	Direction	NGR	Address	Operator	Type	Permission Number	Dates	Status
39C	306	W	530500 182000	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Great Ormond Street Hospital For Children Nhs Trust	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AB5415	Date of Approval:6-11-1991 Effective from:6-11-1991 Last date of update:2005-01-06	Superseded By Variation
40C	306	W	530500 182000	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Great Ormond Street Hospital For Children Nhs Trust	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AB5415	Date of Approval:21/2/2005 Effective from:21/2/2005 Last date of update:2015-01-01	Superseded By Variation
41C	306	W	530500 182000	Great Ormond Street Hospital For Children Nhs Trust, Great Ormond Street, London, WC1N 3JH	Great Ormond Street Hospital For Children Nhs Trust	Disposal Of Radioactive Waste (was Rsa60 Section 6).	BG6243	Date of Approval:1/12/2003 Effective from:1/1/2004 Last date of update:2015-01-01	Superseded By Variation
42D	330	NW	530510 182150	Institute Of Child Health, 30 Guildford Street, London, WC1N 1EH	Institute Of Child Health	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AH9871	Date of Approval:26/3/1998 Effective from:20/4/1998 Last date of update:2015-01-01	Superseded By Variation
43D	330	NW	530510 182150	Institute Of Child Health, Hospital For Sick Children,30 Gullford Street, London, WC1N 1EH	Institute Of Child Health	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AH9863	Date of Approval:22/3/1996 Effective from:22/3/1996 Last date of update:2015-01-01	Effective
44D	330	NW	530510 182150	Institute Of Child Health, 30 Guildford Street, London, WC1N 1EH	Institute Of Child Health	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AH9871	Date of Approval:1/12/2003 Effective from:1/1/2004 Last date of update:2015-01-01	Superseded By Variation
45D	330	NW	530510 182150	Institute Of Child Health, 30 Guildford Street, London, WC1N 1EH	Institute Of Child Health	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AH9871	Date of Approval:1/9/1993 Effective from:29/9/1993 Last date of update:2015-01-01	Superseded By Variation
46D	330	NW	530510 182150	Institute Of Child Health, 30 Guildford Street, London, WC1N 1EH	Institute Of Child Health	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AH9871	Date of Approval:20/2/2007 Effective from:20/3/2007 Last date of update:2015-01-01	Effective

ID	Distance (m)	Direction	NGR	Address	Operator	Type	Permission Number	Dates	Status
47D	330	NW	530510 182150	Institute Of Child Health, 30 Guildford Street, London, WC1N 1EH	Institute Of Child Health	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AH9871	Date of Approval:4/1/2006 Effective from:4/1/2006 Last date of update:2015-01-01	Superseded By Variation
48E	440	N	530720 182440	University College London, Eastman Dental Institute, 256 Grays Inn Road, London, WC1X 8LD	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	BU7456	Date of Approval:27/9/2004 Effective from:25/10/2004 Last date of update:2015-01-01	Superseded By Variation
49E	440	N	530720 182440	University College London, Eastman Dental Institute, 256 Grays Inn Road, London, WC1X 8LD	University College London	Disposal Of Radioactive Waste (was Rsa60 Section 6).	BU7456	Date of Approval:4/1/2006 Effective from:4/1/2006 Last date of update:2015-01-01	Effective
50E	440	N	530720 182440	Eastman Dental Hospital, 256 Grays Inn Road, London, WC1X 8LD	Eastman Dental Hospital	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AA1775	Date of Approval:30-10-1991 Effective from:30-10-1991 Last date of update:2005-01-06	Superseded By Variation
51E	440	N	530720 182440	Eastman Dental Hospital, Eastman Dental Institute, 256 Grays Inn Road, London, WC1X 8LD	Eastman Dental Hospital	Disposal Of Radioactive Waste (was Rsa60 Section 6).	AA1783	Date of Approval:15/10/1996 Effective from:4/11/1996 Last date of update:2015-01-01	Revoked/cancelled
52E	440	N	530720 182440	University College London, Eastman Dental Institute, 256 Grays Inn Road, London, WC1X 8LD	University College London	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	BU7464	Date of Approval:27/9/2004 Effective from:27/9/2004 Last date of update:2015-01-01	Effective
53E	440	N	530720 182440	Eastman Dental Hospital, 256 Grays Inn Road, London, WC1X 8LD	Eastman Dental Hospital	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AA1775	Date of Approval:15/10/1996 Effective from:15/10/1996 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:

0

Database searched and no data found.

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

0

Database searched and no data found.

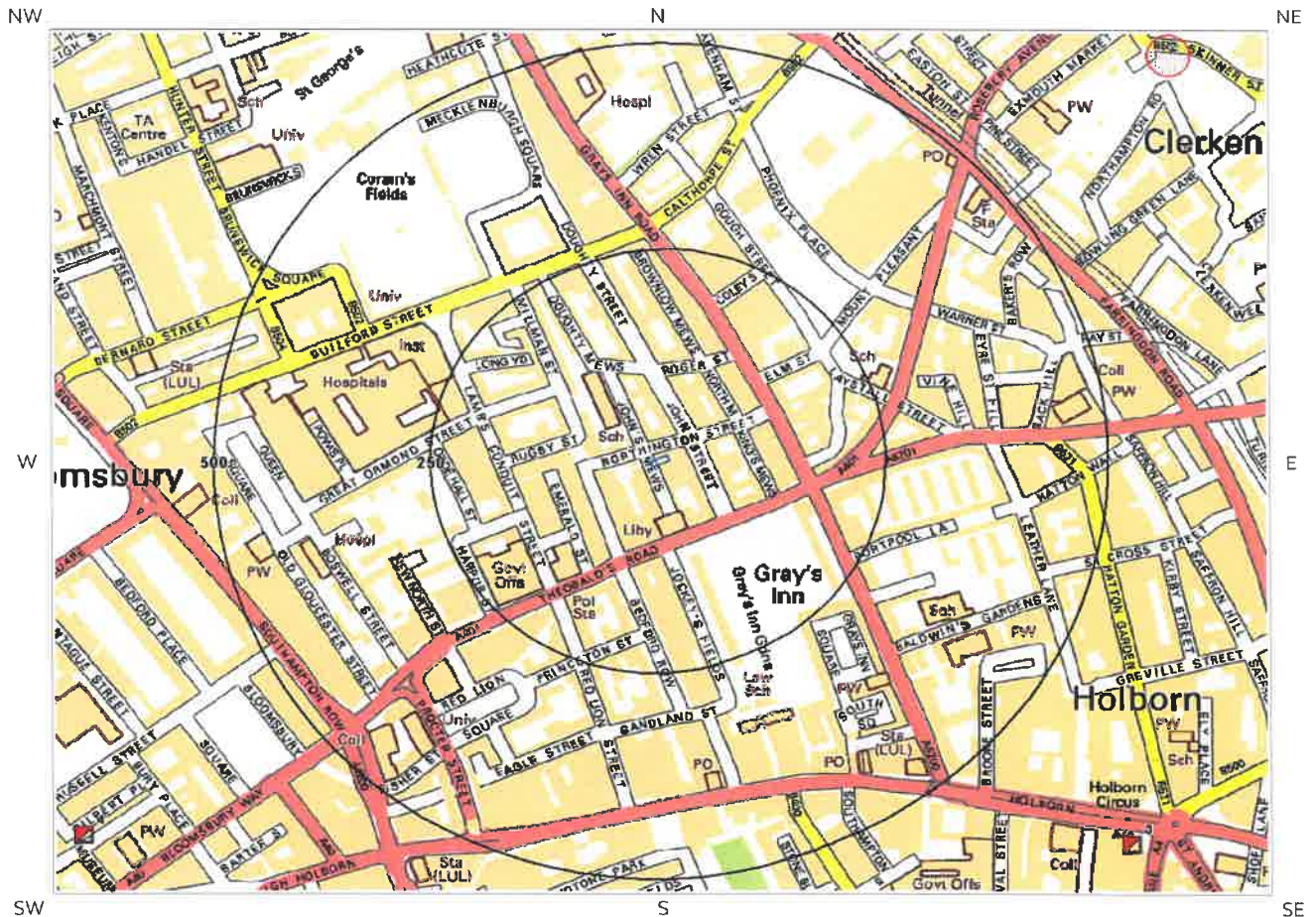
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

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



© Crown copyright and database rights 2017.
Ordnance Survey license 100035207.

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

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:

2

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details
Not shown	720	S	530700 181200	Site Address: Portugal Street, Lincoln's Inn Fields, London WC2A Waste Licence: - Site Reference: IMP006 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: - Last Recorded: -
2	727	NE	531400 182400	Site Address: Rosoman Street / Skinner Street, Finsbury Waste Licence: - Site Reference: - Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: - First Recorded: 31-Dec-1975 Last Recorded: 31-Dec-1978

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:

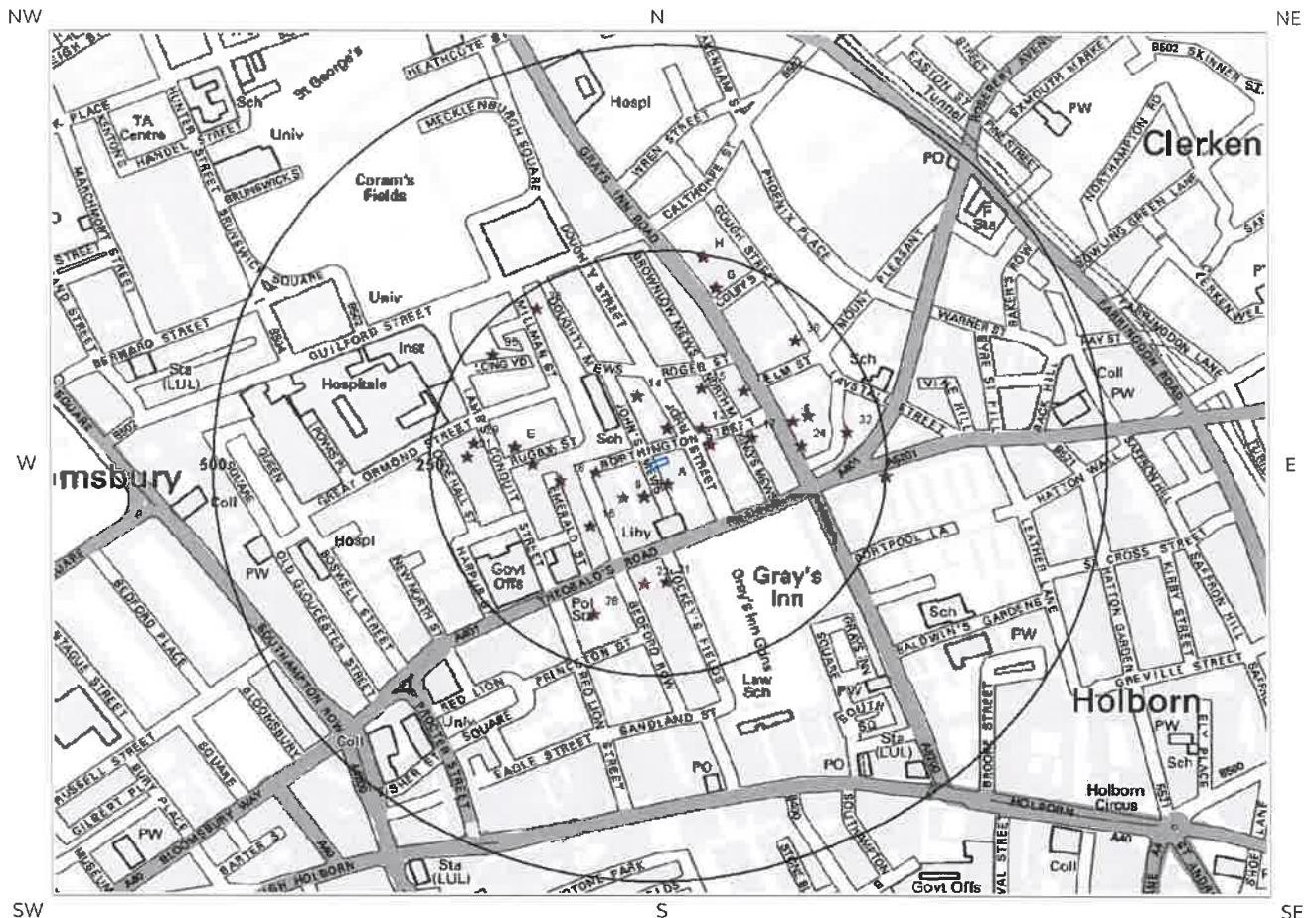
7

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
3	701	SE	531354 181541	<p>Site Address: Mobile Plant Type: Mobile plant for land spreading Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ETL001 EPR reference: EA/EPR/BB3408KC/V002 Operator: E P R Thetford Limited Waste Management licence No: 105552 Annual Tonnage: 0.0</p> <p>Issue Date: 14/04/2014 Effective Date: - Modified: 09/06/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Mobile Plant S R 2010 No 4 Correspondence Address: -</p>
4	791	SW	530155 181552	<p>Site Address: Mobile Plant Type: Mobile plant treatment for soil <75,000 tpd Size: < 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 No 11 Correspondence Address: -</p>
Not shown	915	E	531723 182200	<p>Site Address: 12, Tanfield Close, Cheshunt, Herefordshire, EN7 6BH Type: Mobile Plant for remediation of land Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BRS005 EPR reference: EA/EPR/DB3036RC/A001 Operator: Brownfield Remediation Solutions Limited Waste Management licence No: 105256 Annual Tonnage: 0.0</p> <p>Issue Date: 28/10/2011 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: S R 2008 No 27 Correspondence Address: -</p>

ID	Distance (m)	Direction	NGR	Details
Not shown	1061	N	530584 183046	<p>Site Address: Mobile Plant Type: Mobile Plant for remediation of land Size: < 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	1066	N	530575 183048	<p>Site Address: - Type: Mobile Plant for remediation of land Size: < 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	1261	NE	531980 182519	<p>Site Address: - Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BAR002 EPR reference: EA/EPR/NP3891NH/A001 Operator: Barbican Metal Company (Refiners) Ltd Waste Management licence No: 80291 Annual Tonnage: 24999.0</p> <p>Issue Date: 23/12/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Barbican Metal, Seward St Correspondence Address: -</p>
Not shown	1269	NE	531989 182519	<p>Site Address: - Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BAR002 EPR reference: EA/EPR/NP3891NH/A001 Operator: Barbican Metal Company (Refiners) Ltd Waste Management licence No: 80291 Annual Tonnage: 24999.0</p> <p>Issue Date: 23/12/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Barbican Metal, Seward St Correspondence Address: -</p>

4. Current Land Use Map



© Crown copyright and database rights 2017.
Ordnance Survey license 100035207.



4. Current Land Uses

4.1 Current Industrial Data

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

40

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

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1A	23	S	Hurst Peirce & Malcolm LLP	530827 181980	33, Johns Mews, London, WC1N 2QL	Structural Engineers	Engineering Services
2A	23	S	F J Samuely & Partners Ltd	530827 181980	33, Johns Mews, London, WC1N 2NS	Civil Engineers	Engineering Services
3B	34	S	Carreducker	530800 181965	Unit W/9 Cockpit Yard, Northington Street, London, WC1N 2NP	Footwear	Consumer Products
4B	34	S	Kelvin J Birk	530800 181965	Unit E2s Cockpit Yard, Northington Street, London, WC1N 2NP	Jewellery, Gems, Clocks and Watches	Consumer Products
5B	34	S	Judy Bentinck Millinery	530800 181965	Unit E2q Cockpit Arts Cockpit Yard, Northington Street, London, WC1N 2NP	Clothing, Components and Accessories	Consumer Products
6C	35	N	Elliott & Thompson	530826 182047	27, John Street, London, WC1N 2BX	Published Goods	Industrial Products
7C	35	N	International Publishing Group	530826 182047	27, John Street, London, WC1N 2BX	Published Goods	Industrial Products
8C	35	N	Ashgrove Publishing	530826 182047	27, John Street, London, WC1N 2BX	Published Goods	Industrial Products
9	47	SW	Council Depot	530776 181964	WC1N	Container and Storage	Transport, Storage and Delivery
10D	52	NE	Saint Barbara LLP	530875 182028	9, John Street, London, WC1N 2ES	Ore Mining	Extractive Industries
11D	52	NE	C W A Consultants Ltd	530875 182028	9, John Street, London, WC1N 2ES	Marine Engineers and Services	Engineering Services
12	54	NE	Advatech Health Care Europe	530866 182048	10, John Street, London, WC1N 2EB	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products
13	63	W	Brazilian Aeronautical Commission in Europe	530744 181994	16, Great James Street, London, WC1N 3DP	Aeroplanes	Industrial Products
14	82	N	H R A Pharma UK & Ireland Ltd	530792 182087	Flat 2 21, John Street, London, WC1N 2BF	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
15	93	NE	Portland Press Ltd	530866 182096	Charles Darwin House 12, Roger Street, London, WC1N 2JU	Distribution and Haulage	Transport, Storage and Delivery
16	98	SW	Link Chartering Ltd	530738 181929	34, Great James Street, London, WC1N 3HB	Distribution and Haulage	Transport, Storage and Delivery
17	101	E	W Godleman & Son Ltd	530925 182037	20-21, King's Mews, London, WC1N 2JB	Vehicle Repair, Testing and Servicing	Repair and Servicing
18	105	W	Shortlist	530703 181984	26-34, Emerald Street, London, WC1N 3QA	Published Goods	Industrial Products
19	121	NE	Grays Inn Hardware	530915 182093	Flat 67, Gray's Inn Road, London, WC1X 8TL	General Construction Supplies	Industrial Products
20	135	W	Maggie Owen London	530671 182004	13, Rugby Street, London, WC1N 3QT	Jewellery, Gems, Clocks and Watches	Consumer Products
21	137	S	Clco Books	530825 181861	20-21, Jockey's Fields, London, WC1R 4BW	Published Goods	Industrial Products
22	139	S	Eco-airvent Ltd	530799 181859	20-22, Bedford Row, London, WC1R 4JS	Cooling and Refrigeration	Industrial Products
23F	152	E	Adana Graphic Supplies Ltd	530972 182056	162, Gray's Inn Road, London, WC1X 8ED	Published Goods	Industrial Products
24	155	E	Sevenoaks Sound & Vision	530981 182027	144-148, Gray's Inn Road, London, WC1X 8AX	Electronic Equipment	Industrial Products
25E	155	W	Opera Now Magazine	530652 182025	Buckingham House 20, Rugby Street, London, WC1N 3QZ	Published Goods	Industrial Products
26E	156	W	Rhinegold Publishing	530652 182025	Buckingham House 20, Rugby Street, London, WC1N 3QZ	Published Goods	Industrial Products
27F	171	E	Agogo	530990 182063	156-158, Gray's Inn Road, London, WC1X 8ED	Recording Studios and Record Companies	IT, Advertising, Marketing and Media Services
28	187	S	Battle McCarthy	530741 181822	Dog & Duck Yard, Princeton Street, London, WC1R 4BH	Civil Engineers	Engineering Services
29	202	W	Persephone Books	530606 182029	59, Lambs Conduit Street, London, WC1N 3NB	Published Goods	Industrial Products
30	207	NE	Electricity Sub Station	530976 182155	WC1X	Electrical Features	Infrastructure and Facilities
31	208	W	Len Fowler Trophies Ltd	530598 182013	4, Lamp Office Court, London, WC1N 3NF	Medals, Trophies, Ceremonial and Religious Goods	Consumer Products
32	209	E	Electricity Sub Station	531034 182043	EC1R	Electrical Features	Infrastructure and Facilities
33G	213	N	Simon & Amp Schuster	530883 182218	Former Offices and Premises at Ground Floor 222, Gray's Inn Road, London, WC1X 8HB	Published Goods	Industrial Products
34G	214	N	Simon & Schuster	530883 182218	222, Gray's Inn Road, London, WC1X 8HB	Published Goods	Industrial Products
35	223	NW	Corporate Mobile Recycling	530627 182137	3, Long Yard, London, WC1N 3LS	Recycling, Reclamation and Disposal	Recycling Services
36	228	NW	Av2 Hire Ltd	530677 182192	64-66, Millman Street, London, WC1N 3EF	Electronic Equipment	Industrial Products

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
37H	247	N	Springer Nature	530869 182256	236, Gray's Inn Road, London, WC1X 8HB	Published Goods	Industrial Products
38H	248	N	Biomed Central	530868 182256	236, Gray's Inn Road, London, WC1X 8HB	Published Goods	Industrial Products
39I	250	E	Airport Fleet Cars	531077 181990	123, Clerkenwell Road, London, EC1R 5DB	Airlines and Airline Services	Transport, Storage and Delivery
40I	250	E	Alpha Cars	531077 181990	123, Clerkenwell Road, London, EC1R 5DB	Vehicle Hire and Rental	Hire Services

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
HAGR-XSV	HACKNEY GRAVEL MEMBER	SAND AND GRAVEL

5.3 Bedrock and Solid Geology

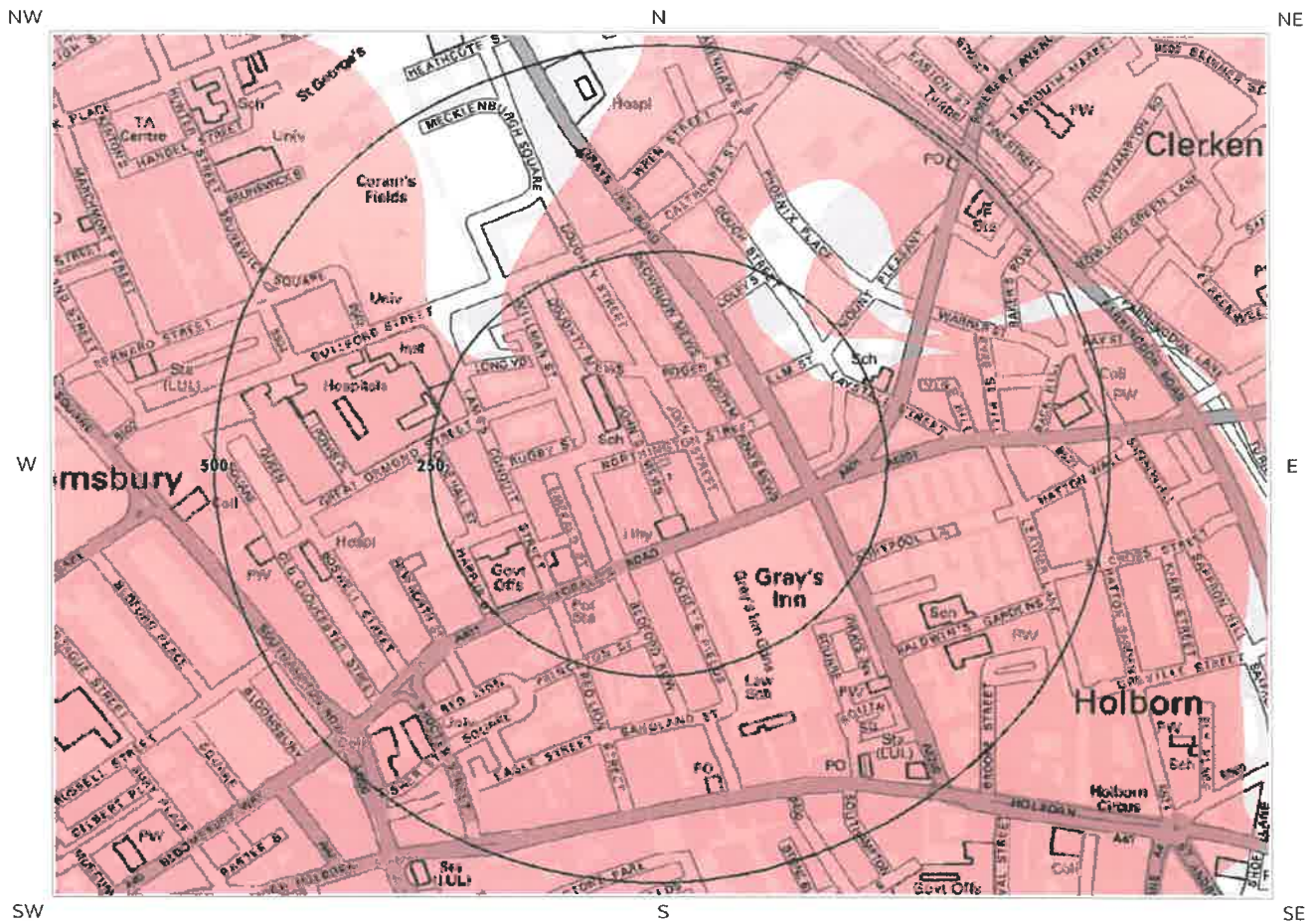
The database has been searched on site, including a 50m buffer.

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

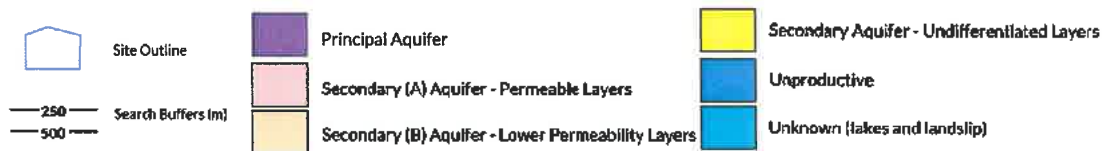
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

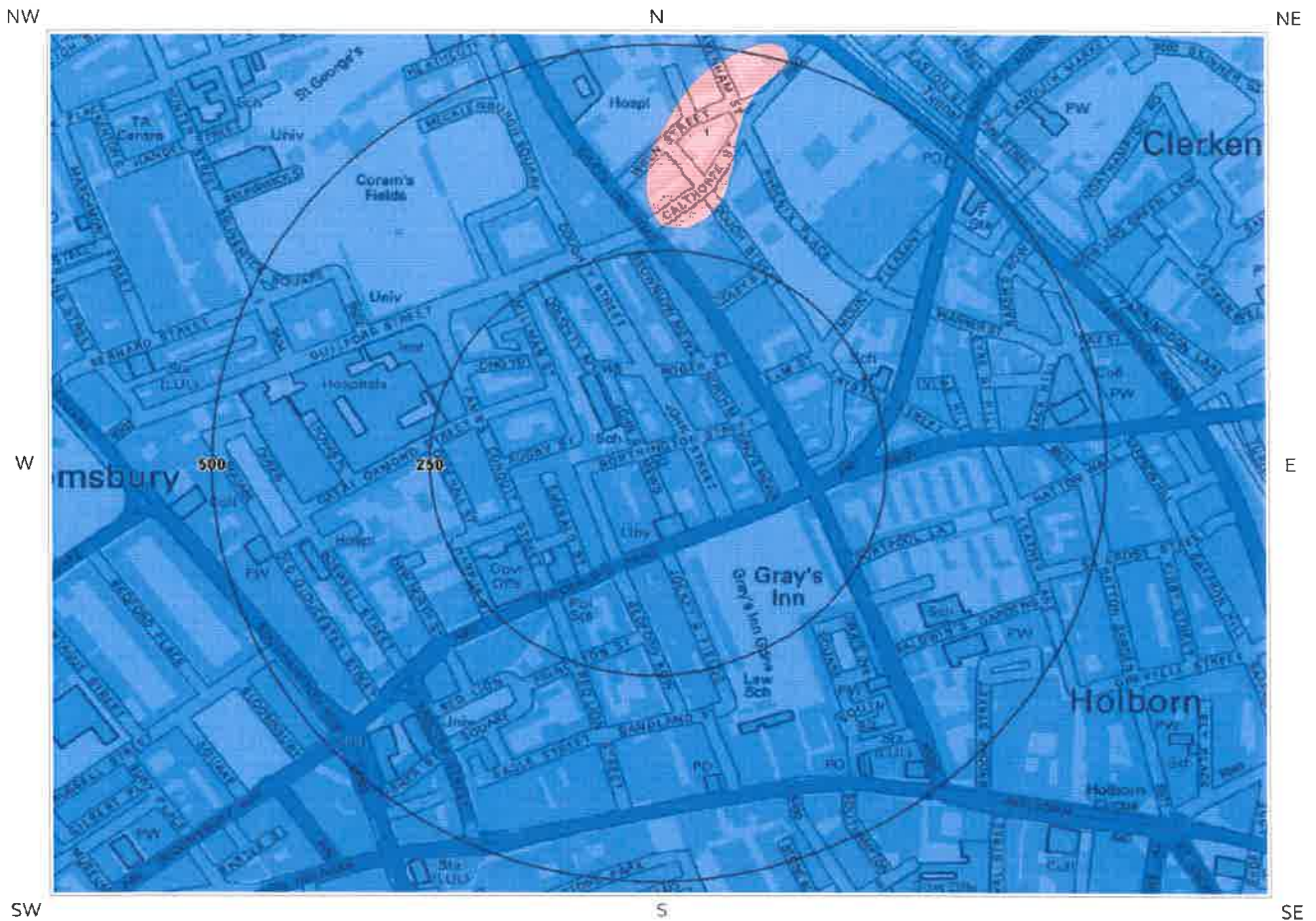
6a. Aquifer Within Superficial Geology



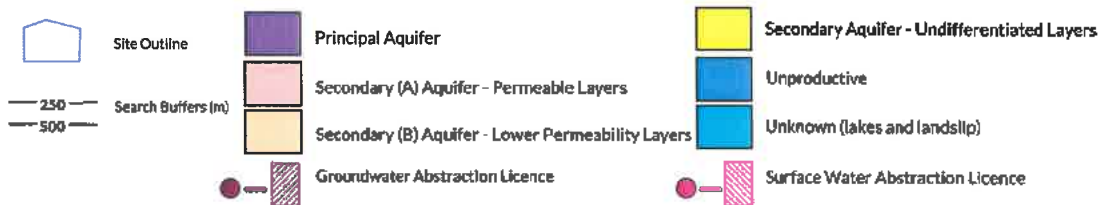
© Crown copyright and database rights 2017
Ordnance Survey license 100035207.



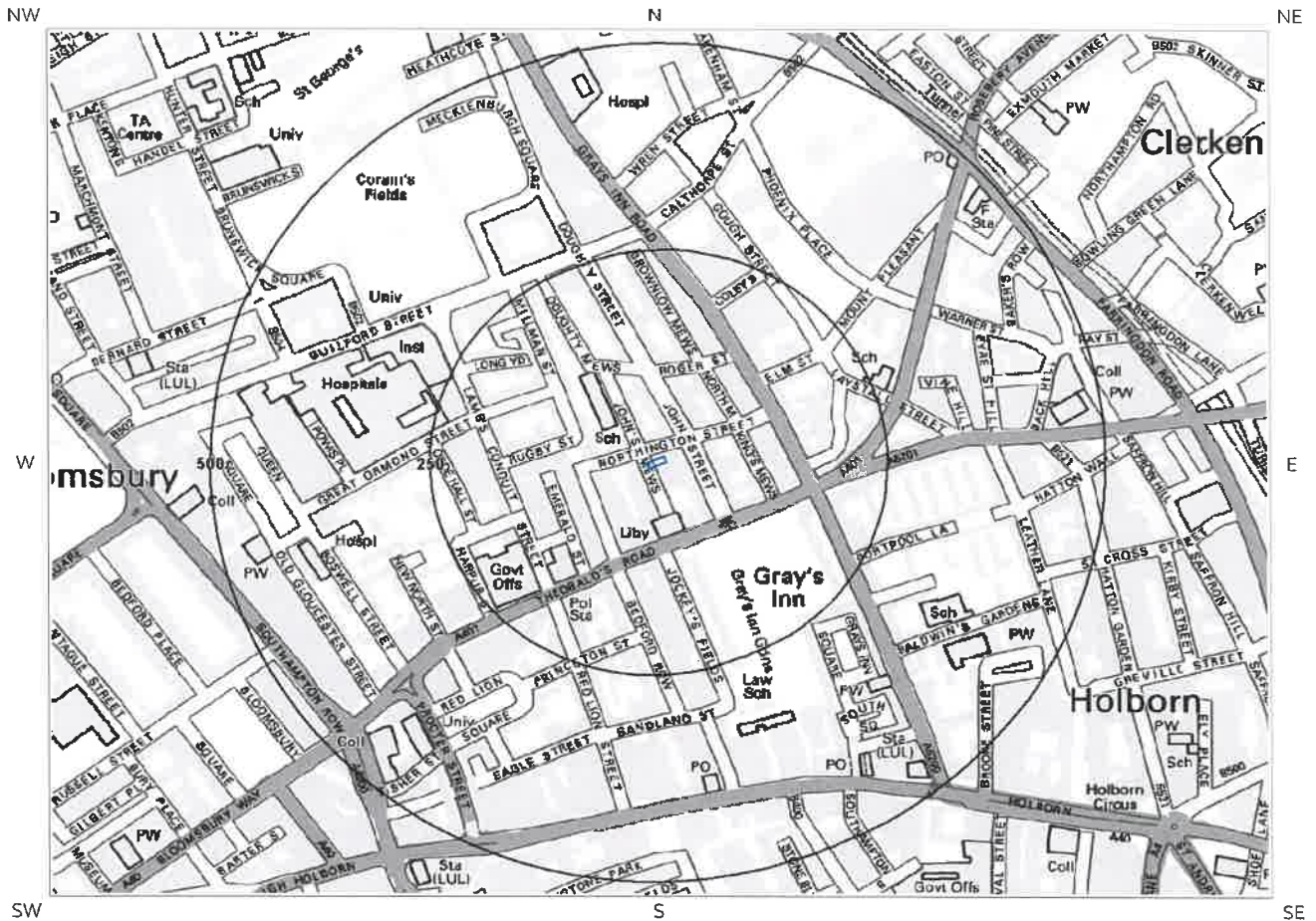
6b. Aquifer Within Bedrock Geology and Abstraction Licenses



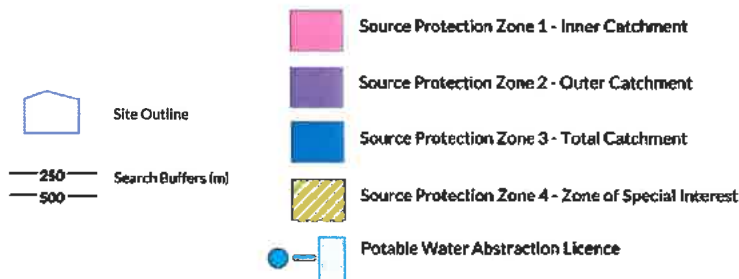
© Crown copyright and database rights 2017
Ordnance Survey License 100038207.



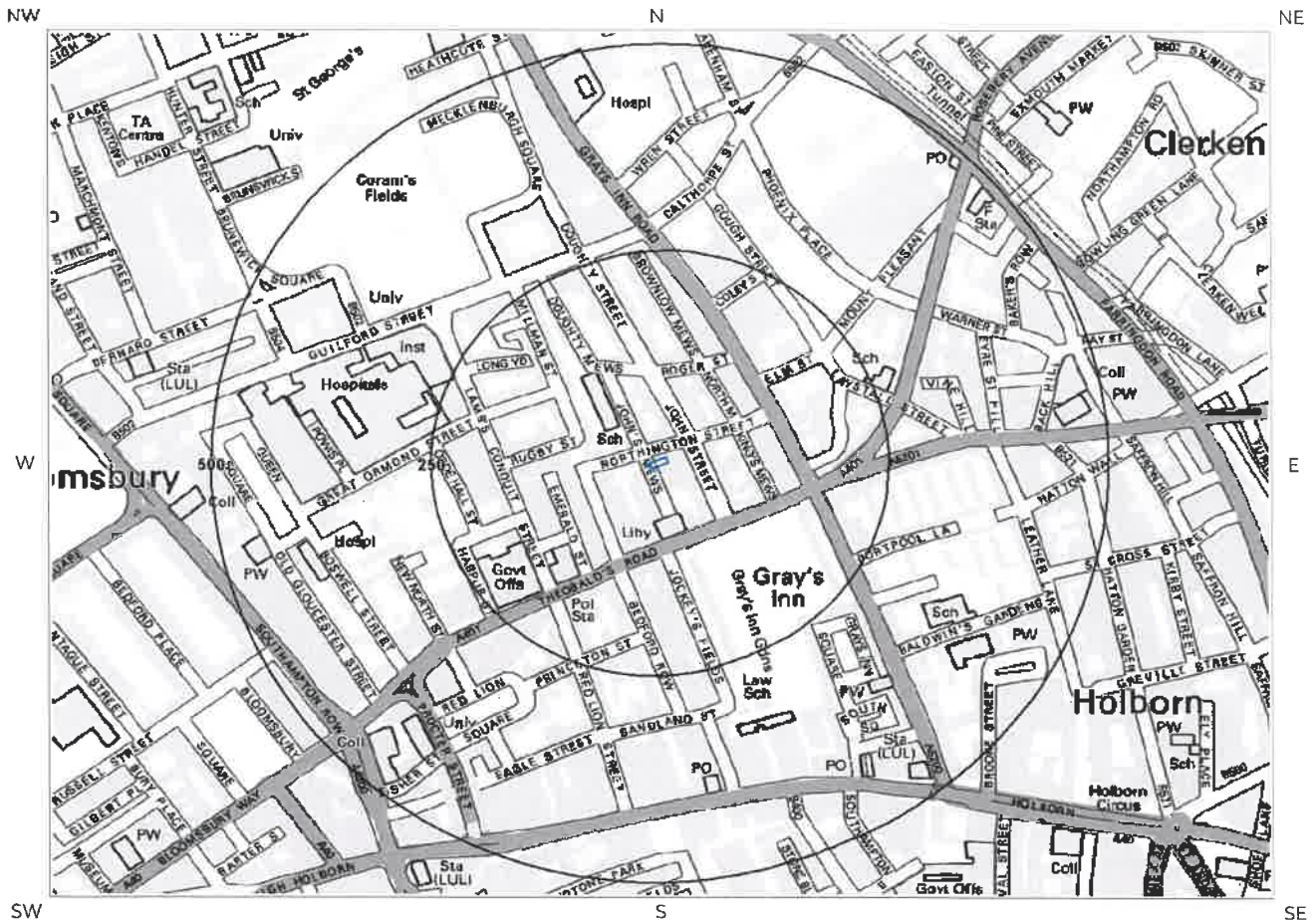
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licences



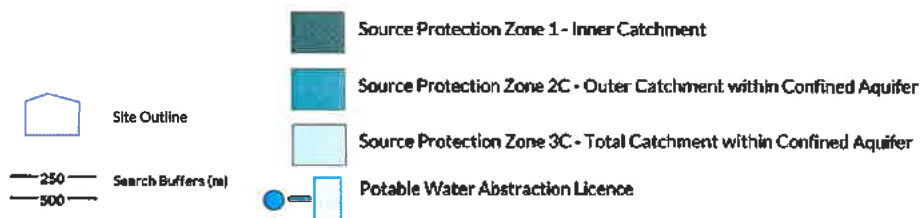
© Crown copyright and database rights 2017
Ordnance Survey license 100035207.



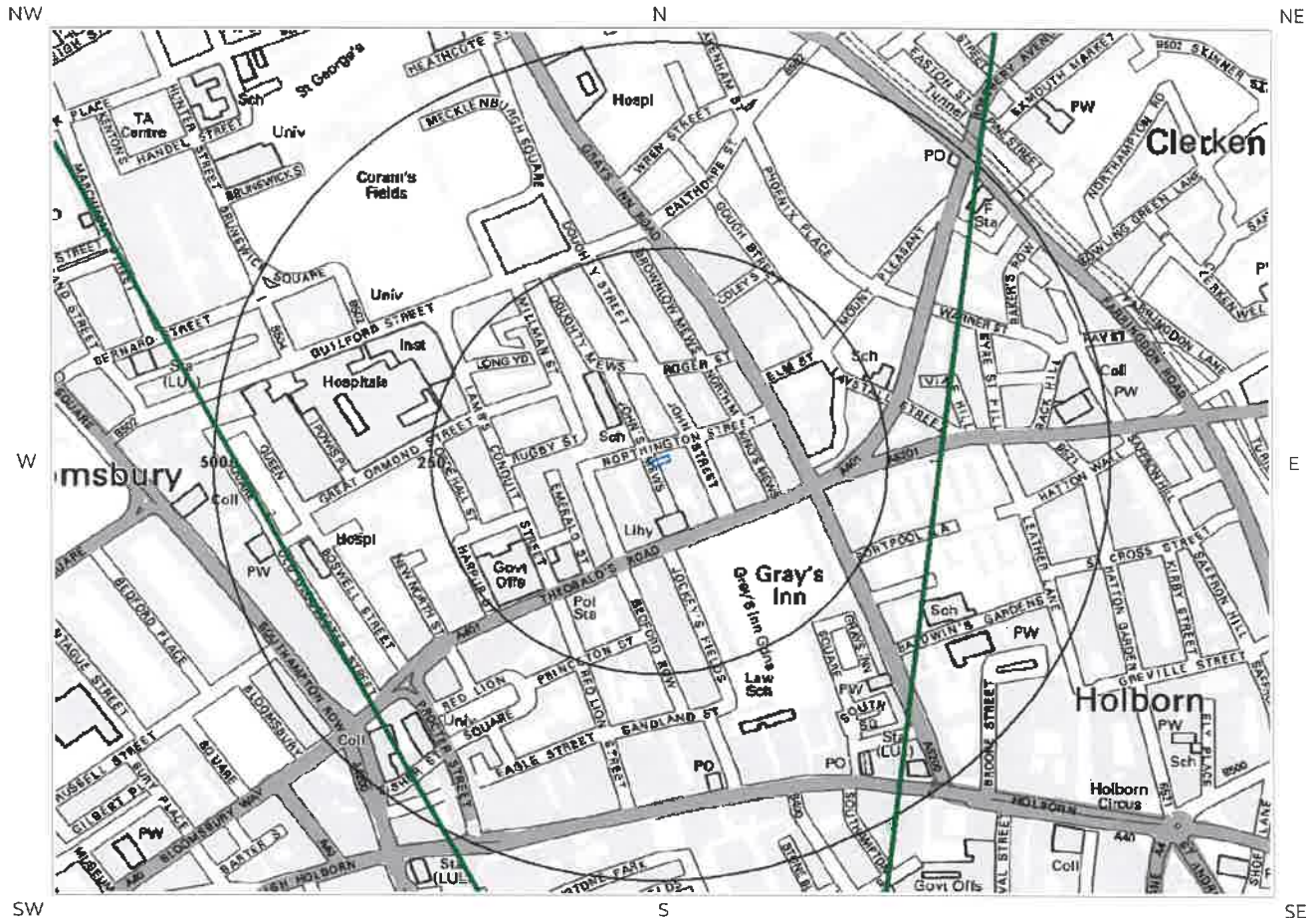
6d. Hydrogeology – Source Protection Zones within confined aquifer



© Crown copyright and database rights 2017
Ordnance Survey license 100035207.



6e. Hydrology – Detailed River Network and River Quality



© Crown copyright and database rights 2017.
Ordnance Survey license 100038207.



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

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
2	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
1	277	N	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

6.3 Groundwater Abstraction Licences

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

Yes

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
Not shown	830	E	531600 181700	<p>Status: Historical Licence No: 28/39/39/0176 Details: Evaporative Cooling Direct Source: Thames Groundwater Point: Charterhouse Street, London - Borehole A Data Type: Point Name: CITIGEN (LONDON) LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 23/12/1994 Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 11/1/1995 Version End Date:</p>
Not shown	830	E	531600 181700	<p>Status: Historical Licence No: 28/39/39/0176 Details: Evaporative Cooling Direct Source: Thames Groundwater Point: Charterhouse Street, London - Borehole B Data Type: Point Name: CITIGEN (LONDON) LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 23/12/1994 Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 11/1/1995 Version End Date:</p>
Not shown	834	E	531650 182150	<p>Status: Active Licence No: 28/39/39/0206 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: 86-88 Clerkenwell Road, London - Borehole A Data Type: Point Name: Urban Hotels UK LLP</p> <p>Annual Volume (m³): 25404 Max Daily Volume (m³): 125 Original Application No: NPS/WR/010632 Original Start Date: 4/7/2003 Expiry Date: 31/3/2025 Issue No: 4 Version Start Date: 10/9/2012 Version End Date:</p>
Not shown	841	E	531630 181750	<p>Status: Historical Licence No: 28/39/39/0176 Details: Evaporative Cooling Direct Source: Thames Groundwater Point: 2 Boreholes At Charterhouse Street, Smithfield At Point A Data Type: Point Name: CITIGEN (LONDON) LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WRA/6138 Original Start Date: 23/12/1994 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: 1/4/2000 Version End Date:</p>
Not shown	869	NE	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 (m³): 1261440 Max Daily Volume (m³): 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:</p>
Not shown	875	NE	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 (m³): 1261440 Max Daily Volume (m³): 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:</p>

ID	Distance (m)	Direction	NGR	Details	
Not shown	957	W	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 ³): 203407 Max Daily Volume (m ³): 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	957	W	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 ³): 203407 Max Daily Volume (m ³): 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	959	W	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 ³): 203407 Max Daily Volume (m ³): 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	959	W	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 ³): 203407 Max Daily Volume (m ³): 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	1021	SE	531300 181100	Status: Historical Licence No: 28/39/39/0077 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole At 37 Fleet Street, London Ec4 Data Type: Point Name: C HOARE & CO	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/6/1968 Version End Date:
Not shown	1034	SE	531748 181533	Status: Historical Licence No: TH/039/0039/084 Details: Heat Pump Direct Source: Thames Groundwater Point: Confined Chalk At City And Guilds Head Office Data Type: Point Name: City and Guilds of London Institute	Annual Volume (m ³): 189216 Max Daily Volume (m ³): 519 Original Application No: NPS/WR/013619 Original Start Date: 23/8/2013 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 23/8/2013 Version End Date:
Not shown	1034	SE	531748 181533	Status: Active Licence No: TH/039/0039/084 Details: Heat Pump Direct Source: Thames Groundwater Point: Confined Chalk At City And Guilds Head Office Data Type: Point Name: City and Guilds of London Institute	Annual Volume (m ³): 189216 Max Daily Volume (m ³): 519 Original Application No: NPS/WR/013619 Original Start Date: 23/8/2013 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 23/8/2013 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1038	NW	530052 182718	<p>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</p> <p>Annual Volume (m³): 327600 Max Daily Volume (m³): 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:</p>
Not shown	1038	NW	530052 182718	<p>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</p> <p>Annual Volume (m³): 327600 Max Daily Volume (m³): 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:</p>
Not shown	1038	NW	530052 182718	<p>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</p> <p>Annual Volume (m³): 327600 Max Daily Volume (m³): 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:</p>
Not shown	1046	S	531050 180980	<p>Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Globe House, Victoria Embankment-Borehole C Data Type: Point Name: COMMERZ GRUNDBESITZ INVEST. MBH</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/1/1966 Expiry Date: - Issue No: 101 Version Start Date: 28/3/2003 Version End Date:</p>
Not shown	1048	S	531060 180980	<p>Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Globe House, Victoria Embankment-Borehole A Data Type: Point Name: COMMERZ GRUNDBESITZ INVEST. MBH</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/1/1966 Expiry Date: - Issue No: 101 Version Start Date: 28/3/2003 Version End Date:</p>
Not shown	1051	S	531030 180970	<p>Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Globe House, Victoria Embankment-Borehole B Data Type: Point Name: COMMERZ GRUNDBESITZ INVEST. MBH</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/1/1966 Expiry Date: - Issue No: 101 Version Start Date: 28/3/2003 Version End Date:</p>
Not shown	1076	NE	531452 182887	<p>Status: Active Licence No: TH/039/0039/060 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Borehole At Saddlers Wells Data Type: Point Name: THAMES WATER UTILITIES LTD</p> <p>Annual Volume (m³): 473040 Max Daily Volume (m³): 1296 Original Application No: NPS/WR/009228 Original Start Date: 1/4/2013 Expiry Date: 31/3/2025 Issue No: 1 Version Start Date: 1/4/2013 Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details
Not shown	1085	NE	531450 182900	<p>Status: Historical Licence No: 28/39/39/0188 Details: Non-Evaporative Cooling Direct Source: Thames Groundwater Point: Borehole At Sadler's Wells Theatre, London Data Type: Point Name: SADLER'S WELLS TRUST LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 29/9/1998 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: 18/9/2001 Version End Date:</p>
Not shown	1085	NE	531450 182900	<p>Status: Historical Licence No: 28/39/39/0188 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole At Sadler's Wells Theatre, London Data Type: Point Name: SADLER'S WELLS TRUST LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 29/9/1998 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: 18/9/2001 Version End Date:</p>
Not shown	1085	NE	531450 182900	<p>Status: Historical Licence No: 28/39/39/0188 Details: Non-Evaporative Cooling Direct Source: Thames Groundwater Point: Borehole At Sadlers Wells Theatre, London Data Type: Point Name: SADLERS WELLS TRUST LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: A/N/6488 Original Start Date: - Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 29/9/1998 Version End Date:</p>
Not shown	1085	NE	531450 182900	<p>Status: Historical Licence No: 28/39/39/0188 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole At Sadlers Wells Theatre, London Data Type: Point Name: SADLERS WELLS TRUST LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: A/N/6488 Original Start Date: - Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 29/9/1998 Version End Date:</p>
Not shown	1085	NE	531450 182900	<p>Status: Historical Licence No: 28/39/39/0188 Details: Water Bottling Direct Source: Thames Groundwater Point: Borehole At Sadlers Wells Theatre, London Data Type: Point Name: SADLERS WELLS TRUST LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: A/N/6488 Original Start Date: - Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: 29/9/1998 Version End Date:</p>
Not shown	1085	NE	531450 182900	<p>Status: Historical Licence No: 28/39/39/0208 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Borehole At Sadler's Wells Theatre, London Data Type: Point Name: THAMES WATER UTILITIES LTD</p> <p>Annual Volume (m³): 473040 Max Daily Volume (m³): 1296 Original Application No: WRA/R/1010 Original Start Date: 13/12/2004 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 13/12/2004 Version End Date:</p>
Not shown	1085	NE	531450 182900	<p>Status: Historical Licence No: 28/39/39/0188 Details: Water Bottling Direct Source: Thames Groundwater Point: Borehole At Sadler's Wells Theatre, London Data Type: Point Name: SADLER'S WELLS TRUST LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 29/9/1998 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: 18/9/2001 Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details	
Not shown	1085	NE	531450 182900	Status: Historical Licence No: 28/39/39/0208 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Sadler's Wells Theatre, London Data Type: Point Name: THAMES WATER UTILITIES LTD	Annual Volume (m ³): 473040 Max Daily Volume (m ³): 1296 Original Application No: WRA/R/1010 Original Start Date: 13/12/2004 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 13/12/2004 Version End Date:
Not shown	1213	S	531000 180800	Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'b' At Globe House, Temple Place, London Data Type: Point Name: HAMMERSON UK PROPERTIES PLC	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1995 Version End Date:
Not shown	1213	S	531000 180800	Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'a' At Globe House, Temple Place, London Data Type: Point Name: HAMMERSON UK PROPERTIES PLC	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1995 Version End Date:
Not shown	1213	S	531000 180800	Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'c' At Globe House, Temple Place, London Data Type: Point Name: HAMMERSON UK PROPERTIES PLC	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/1/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/12/1995 Version End Date:
Not shown	1228	SE	531315 180878	Status: Active Licence No: TH/039/0039/115 Details: Spray Irrigation - Direct Direct Source: Thames Groundwater Point: Inner Temple Gardens Borehole Data Type: Point Name: THE HONOURABLE SOCIETY OF THE INNER TEMPLE	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 50 Original Application No: NPS/WR/022651 Original Start Date: 20/10/2016 Expiry Date: 31/3/2028 Issue No: 1 Version Start Date: 20/10/2016 Version End Date:
Not shown	1293	SE	531500 180900	Status: Historical Licence No: 28/39/39/0057 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Two Boreholes At Unilever House, Blackfriars, London Ec4 Data Type: Point Name: UNILEVER LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 9/5/1966 Expiry Date: - Issue No: 100 Version Start Date: 9/5/1966 Version End Date:
Not shown	1361	N	530368 183294	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	Annual Volume (m ³): 323612 Max Daily Volume (m ³): 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:

ID	Distance (m)	Direction	NGR	Details
Not shown	1408	SE	532100 181400	<p>Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'b' At St. Martins Le Grand, London Ec1 Data Type: Point Name: ST MARTINS PROPERTY CORPORATION LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 5/9/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/10/1974 Version End Date:</p>
Not shown	1454	SE	532100 181300	<p>Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'c' At St. Martins Le Grand, London Ec1 Data Type: Point Name: ST MARTINS PROPERTY CORPORATION LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 5/9/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/10/1974 Version End Date:</p>
Not shown	1475	SE	532160 181370	<p>Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: St. Martins Le Grand- Borehole B Data Type: Point Name: ST MARTINS PROPERTY CORP. LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 5/9/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/7/1998 Version End Date:</p>
Not shown	1486	SE	531950 181030	<p>Status: Historical Licence No: 28/39/39/0229 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Grange St Paul's Hotel- Borehole Data Type: Point Name: GLOBAL GRANGE LIMITED</p> <p>Annual Volume (m³): 73000 Max Daily Volume (m³): 200 Original Application No: GEN/39/163 Original Start Date: 17/1/2007 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 17/1/2007 Version End Date:</p>
Not shown	1486	SE	531950 181030	<p>Status: Active Licence No: TH/039/0039/066 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Grange St Paul's Hotel- Borehole Data Type: Point Name: GLOBAL GRANGE LIMITED</p> <p>Annual Volume (m³): 45625 Max Daily Volume (m³): 125 Original Application No: NPS/WR/009183 Original Start Date: 1/4/2013 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 1/4/2013 Version End Date:</p>
Not shown	1507	SE	532160 181300	<p>Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: St. Martins Le Grand, London- Borehole C Data Type: Point Name: ST MARTINS PROPERTY CORP. LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 5/9/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/7/1998 Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details	
Not shown	1606	SW	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 ³): 140000 Max Daily Volume (m ³): 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	1607	SW	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 ³): 52000 Max Daily Volume (m ³): 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:
Not shown	1670	SE	532245 181121	Status: Historical Licence No: TH/039/0039/008 Details: Heat Pump Direct Source: Thames Groundwater Point: Borehole 'b' - 1 New Change London Data Type: Point Name: LAND SECURITIES GROUP PLC	Annual Volume (m ³): 185000 Max Daily Volume (m ³): 972 Original Application No: NPSWR004940 Original Start Date: 22/7/2009 Expiry Date: 31/3/2013 Issue No: 2 Version Start Date: 31/1/2011 Version End Date:
Not shown	1670	SE	532245 181121	Status: Historical Licence No: TH/039/0039/008 Details: Heat Pump Direct Source: Thames Groundwater Point: 1 New Change London - Borehole B Data Type: Point Name: LAND SECURITIES GROUP PLC	Annual Volume (m ³): 185000 Max Daily Volume (m ³): 972 Original Application No: NPSWR004940 Original Start Date: 22/7/2009 Expiry Date: 31/3/2013 Issue No: 2 Version Start Date: 31/1/2011 Version End Date:
Not shown	1670	SE	532245 181121	Status: Active Licence No: TH/039/0039/109 Details: Heat Pump Direct Source: Thames Groundwater Point: 1 New Change London - Borehole B Data Type: Point Name: LAND SECURITIES GROUP PLC	Annual Volume (m ³): 185000 Max Daily Volume (m ³): 972 Original Application No: NPS/WR/019073 Original Start Date: 27/8/2015 Expiry Date: 31/3/2025 Issue No: 1 Version Start Date: 27/8/2015 Version End Date:
Not shown	1680	N	531022 183681	Status: Active Licence No: TH/039/0039/057 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Borehole At Barnard Park Data Type: Point Name: THAMES WATER UTILITIES LTD	Annual Volume (m ³): 914544 Max Daily Volume (m ³): 3024 Original Application No: NPS/WR/009227 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	1684	SE	532291 181171	Status: Historical Licence No: TH/039/0039/008 Details: Heat Pump Direct Source: Thames Groundwater Point: 1 New Change London - Borehole A Data Type: Point Name: LAND SECURITIES GROUP PLC	Annual Volume (m ³): 185000 Max Daily Volume (m ³): 972 Original Application No: NPSWR004940 Original Start Date: 22/7/2009 Expiry Date: 31/3/2013 Issue No: 2 Version Start Date: 31/1/2011 Version End Date:
Not shown	1684	SE	532291 181171	Status: Historical Licence No: TH/039/0039/008 Details: Heat Pump Direct Source: Thames Groundwater Point: Borehole 'a' - 1 New Change London Data Type: Point Name: LAND SECURITIES GROUP PLC	Annual Volume (m ³): 185000 Max Daily Volume (m ³): 972 Original Application No: NPSWR004940 Original Start Date: 22/7/2009 Expiry Date: 31/3/2013 Issue No: 2 Version Start Date: 31/1/2011 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1684	SE	532291 181171	<p>Status: Historical Licence No: TH/039/0039/008 Details: Heat Pump Direct Source: Thames Groundwater Point: One New Change - Borehole A Data Type: Point Name: LAND SECURITIES GROUP PLC</p> <p>Annual Volume (m³): 185000 Max Daily Volume (m³): 972 Original Application No: NPSWR001003 Original Start Date: 22/7/2009 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 22/7/2009 Version End Date:</p>
Not shown	1684	SE	532291 181171	<p>Status: Active Licence No: TH/039/0039/109 Details: Heat Pump Direct Source: Thames Groundwater Point: 1 New Change London - Borehole A Data Type: Point Name: LAND SECURITIES GROUP PLC</p> <p>Annual Volume (m³): 185000 Max Daily Volume (m³): 972 Original Application No: NPS/WR/019073 Original Start Date: 27/8/2015 Expiry Date: 31/3/2025 Issue No: 1 Version Start Date: 27/8/2015 Version End Date:</p>
Not shown	1689	N	531020 183690	<p>Status: Historical Licence No: 28/39/39/0207 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Barnard Park, Islington - Borehole Data Type: Point Name: THAMES WATER UTILITIES LTD</p> <p>Annual Volume (m³): 914544 Max Daily Volume (m³): 3024 Original Application No: - Original Start Date: 2/5/2003 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 8/1/2004 Version End Date:</p>
Not shown	1701	S	531025 180310	<p>Status: Active Licence No: TH/039/0042/008 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Thames Groundwater Point: Chalk At Royal National Theatre Data Type: Point Name: The Royal National Theatre</p> <p>Annual Volume (m³): 43800 Max Daily Volume (m³): 120 Original Application No: NPS/WR/005129 Original Start Date: 20/10/2015 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 20/10/2015 Version End Date:</p>
Not shown	1713	SW	529960 180510	<p>Status: Historical Licence No: 28/39/39/0212 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: The National Gallery- Borehole Data Type: Point Name: THE NATIONAL GALLERY</p> <p>Annual Volume (m³): 30558 Max Daily Volume (m³): 83.7 Original Application No: WRA/N/1311 Original Start Date: 27/10/2004 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 1/4/2008 Version End Date:</p>
Not shown	1713	SW	529960 180510	<p>Status: Historical Licence No: 28/39/39/0212 Details: Evaporative Cooling Direct Source: Thames Groundwater Point: The National Gallery- Borehole Data Type: Point Name: THE NATIONAL GALLERY</p> <p>Annual Volume (m³): 30558 Max Daily Volume (m³): 83.7 Original Application No: WRA/N/1311 Original Start Date: 27/10/2004 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 1/4/2008 Version End Date:</p>
Not shown	1728	S	530830 180270	<p>Status: Historical Licence No: 28/39/42/0069 Details: Non-Evaporative Cooling Direct Source: Thames Groundwater Point: Royal Festival Hall, Belvedere Road, Se1 - Borehole Data Type: Point Name: THE SOUTH BANK BOARD LIMITED</p> <p>Annual Volume (m³): 132000 Max Daily Volume (m³): 825 Original Application No: WRA/S/1191 Original Start Date: 5/5/2005 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: 5/5/2005 Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details
Not shown	1732	S	530826 180266	<p>Status: Historical Licence No: 28/39/42/0069 Details: General Use Relating To Secondary Category (High Loss) Direct Source: Thames Groundwater Point: Royal Festival Hall, Belvedere Road, Se1 - Borehole A Data Type: Point Name: THE SOUTH BANK BOARD LIMITED</p> <p>Annual Volume (m³): 257000 Max Daily Volume (m³): 1620 Original Application No: - Original Start Date: 5/5/2005 Expiry Date: 31/3/2013 Issue No: 2 Version Start Date: 6/7/2007 Version End Date:</p>
Not shown	1732	S	530826 180266	<p>Status: Historical Licence No: 28/39/42/0069 Details: Non-Evaporative Cooling Direct Source: Thames Groundwater Point: Royal Festival Hall, Belvedere Road, Se1 - Borehole A Data Type: Point Name: THE SOUTH BANK BOARD LIMITED</p> <p>Annual Volume (m³): 257000 Max Daily Volume (m³): 1620 Original Application No: - Original Start Date: 5/5/2005 Expiry Date: 31/3/2013 Issue No: 2 Version Start Date: 6/7/2007 Version End Date:</p>
Not shown	1732	S	530826 180266	<p>Status: Active Licence No: 28/39/42/0069/R01 Details: Heat Pump Direct Source: Thames Groundwater Point: Royal Festival Hall, Belvedere Road, Se1 - Borehole A Data Type: Point Name: South Bank Centre Limited</p> <p>Annual Volume (m³): 257000 Max Daily Volume (m³): 1620 Original Application No: NPS/WR/009246 Original Start Date: 1/4/2014 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 1/4/2014 Version End Date:</p>
Not shown	1781	SE	531600 180400	<p>Status: Historical Licence No: 28/39/42/0004 Details: Process water Direct Source: Thames Groundwater Point: Stamford House, Stamford Street, - Borehole 'a' Data Type: Point Name: J SAINSBURY LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR/RG568 Original Start Date: 13/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 19/6/1986 Version End Date:</p>
Not shown	1781	SE	531600 180400	<p>Status: Historical Licence No: 28/39/42/0004 Details: Process Water Direct Source: Thames Groundwater Point: Stamford House, Stamford Street, - Borehole Data Type: Point Name: BEETHAM LANDMARK LONDON LTD</p> <p>Annual Volume (m³): 47733 Max Daily Volume (m³): 327.32 Original Application No: - Original Start Date: 13/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 10/7/2014 Version End Date:</p>
Not shown	1781	SE	531600 180400	<p>Status: Historical Licence No: 28/39/42/0004 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Stamford House, Stamford Street, - Borehole 'a' Data Type: Point Name: J SAINSBURY LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR/RG568 Original Start Date: 13/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 19/6/1986 Version End Date:</p>
Not shown	1781	SE	531600 180400	<p>Status: Historical Licence No: 28/39/42/0004 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Stamford House, Stamford Street, - Borehole Data Type: Point Name: BEETHAM LANDMARK LONDON LTD</p> <p>Annual Volume (m³): 47733 Max Daily Volume (m³): 327.32 Original Application No: - Original Start Date: 13/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 10/7/2014 Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details
Not shown	1810	W	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 (m³): 9126 Max Daily Volume (m³): 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	1810	W	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 (m³): 9126 Max Daily Volume (m³): 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	1840	SE	532300 180900	<p>Status: Historical Licence No: 28/39/39/0071 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole At Beaver House, Great Trinity Street, London Ec4 Data Type: Point Name: DTZ DEBENHAM TIE LEUNG LIMITED</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/1/2000 Version End Date:</p>
Not shown	1840	SE	532300 180900	<p>Status: Historical Licence No: 28/39/39/0071 Details: Evaporative Cooling Direct Source: Thames Groundwater Point: Borehole At Beaver House, Great Trinity Street, London Ec4 Data Type: Point Name: DTZ DEBENHAM TIE LEUNG LIMITED</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 101 Version Start Date: 1/1/2000 Version End Date:</p>
Not shown	1846	S	530737 180153	<p>Status: Historical Licence No: 28/39/42/0069 Details: Non-Evaporative Cooling Direct Source: Thames Groundwater Point: Royal Festival Hall, Belvedere Road Se1 - Borehole B Data Type: Point Name: THE SOUTH BANK BOARD LIMITED</p> <p>Annual Volume (m³): 257000 Max Daily Volume (m³): 1620 Original Application No: - Original Start Date: 5/5/2005 Expiry Date: 31/3/2013 Issue No: 2 Version Start Date: 6/7/2007 Version End Date:</p>
Not shown	1846	S	530737 180153	<p>Status: Historical Licence No: 28/39/42/0069 Details: General Use Relating To Secondary Category (High Loss) Direct Source: Thames Groundwater Point: Royal Festival Hall, Belvedere Road Se1 - Borehole B Data Type: Point Name: THE SOUTH BANK BOARD LIMITED</p> <p>Annual Volume (m³): 257000 Max Daily Volume (m³): 1620 Original Application No: - Original Start Date: 5/5/2005 Expiry Date: 31/3/2013 Issue No: 2 Version Start Date: 6/7/2007 Version End Date:</p>
Not shown	1846	S	530737 180153	<p>Status: Active Licence No: 28/39/42/0069/R01 Details: Heat Pump Direct Source: Thames Groundwater Point: Royal Festival Hall, Belvedere Road Se1 - Borehole B Data Type: Point Name: South Bank Centre Limited</p> <p>Annual Volume (m³): 257000 Max Daily Volume (m³): 1620 Original Application No: NPS/WR/009246 Original Start Date: 1/4/2014 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 1/4/2014 Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details
Not shown	1847	SE	531872 180482	<p>Status: Historical Licence No: TH/039/0042/006 Details: Heat Pump Direct Source: Thames Groundwater Point: Borehole B At Tate Modern, Bankside, London Data Type: Point Name: The Board of Trustees of the Tate Gallery</p> <p>Annual Volume (m³): 300000 Max Daily Volume (m³): 2160 Original Application No: NPS/WR/004024 Original Start Date: 6/6/2011 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 6/6/2011 Version End Date:</p>
Not shown	1847	SE	531872 180482	<p>Status: Active Licence No: TH/039/0042/006 Details: Heat Pump Direct Source: Thames Groundwater Point: Tate Modern, Bankside, London - Borehole B Data Type: Point Name: The Board of Trustees of the Tate Gallery</p> <p>Annual Volume (m³): 300000 Max Daily Volume (m³): 2160 Original Application No: NPS/WR/004024 Original Start Date: 6/6/2011 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 10/7/2014 Version End Date:</p>
Not shown	1857	SE	531849 180454	<p>Status: Historical Licence No: TH/039/0042/006 Details: Heat Pump Direct Source: Thames Groundwater Point: Borehole C At Tate Modern, Bankside, London Data Type: Point Name: The Board of Trustees of the Tate Gallery</p> <p>Annual Volume (m³): 300000 Max Daily Volume (m³): 2160 Original Application No: NPS/WR/004024 Original Start Date: 6/6/2011 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 6/6/2011 Version End Date:</p>
Not shown	1857	SE	531849 180454	<p>Status: Active Licence No: TH/039/0042/006 Details: Heat Pump Direct Source: Thames Groundwater Point: Tate Modern, Bankside, London - Borehole C Data Type: Point Name: The Board of Trustees of the Tate Gallery</p> <p>Annual Volume (m³): 300000 Max Daily Volume (m³): 2160 Original Application No: NPS/WR/004024 Original Start Date: 6/6/2011 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 10/7/2014 Version End Date:</p>
Not shown	1861	SE	531874 180466	<p>Status: Historical Licence No: TH/039/0042/006 Details: Heat Pump Direct Source: Thames Groundwater Point: Borehole A At Tate Modern, Bankside Data Type: Point Name: The Board of Trustees of the Tate Gallery</p> <p>Annual Volume (m³): 300000 Max Daily Volume (m³): 2160 Original Application No: NPS/WR/004024 Original Start Date: 6/6/2011 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 6/6/2011 Version End Date:</p>
Not shown	1861	SE	531874 180466	<p>Status: Active Licence No: TH/039/0042/006 Details: Heat Pump Direct Source: Thames Groundwater Point: Tate Modern, Bankside, London - Borehole A Data Type: Point Name: The Board of Trustees of the Tate Gallery</p> <p>Annual Volume (m³): 300000 Max Daily Volume (m³): 2160 Original Application No: NPS/WR/004024 Original Start Date: 6/6/2011 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: 10/7/2014 Version End Date:</p>
Not shown	1912	W	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 (m³): 9126 Max Daily Volume (m³): 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>

ID	Distance (m)	Direction	NGR	Details
Not shown	1919	W	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 (m³): 9126 Max Daily Volume (m³): 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	1939	W	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 (m³): 9126 Max Daily Volume (m³): 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	1939	W	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 (m³): 9126 Max Daily Volume (m³): 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	1946	SE	532600 181200	<p>Status: Historical Licence No: 28/39/39/0098 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'a' At Poultry, London Ec2 Data Type: Point Name: HSBC BANK plc</p> <p>Annual Volume (m³): 33317.6 Max Daily Volume (m³): 90.92 Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: 3/4/2000 Version End Date:</p>
Not shown	1946	SE	532600 181200	<p>Status: Historical Licence No: 28/39/39/0098 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'd' At Poultry, London Ec2 Data Type: Point Name: HSBC BANK plc</p> <p>Annual Volume (m³): 33317.6 Max Daily Volume (m³): 90.92 Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: 3/4/2000 Version End Date:</p>
Not shown	1946	SE	532600 181200	<p>Status: Historical Licence No: 28/39/39/0098 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'b' At Poultry, London Ec2 Data Type: Point Name: HSBC BANK plc</p> <p>Annual Volume (m³): 33317.6 Max Daily Volume (m³): 90.92 Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: 3/4/2000 Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details
Not shown	1946	SE	532600 181200	<p>Status: Historical Licence No: 28/39/39/0098 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'c' At Poultry, London Ec2 Data Type: Point Name: HSBC BANK plc</p> <p>Annual Volume (m³): 33317.6 Max Daily Volume (m³): 90.92 Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: 3/4/2000 Version End Date:</p>
Not shown	1971	E	532800 182000	<p>Status: Historical Licence No: 28/39/39/0069 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'd' At Royal House, Finsbury Square, London Data Type: Point Name: ROYAL LONDON MUTUAL INS SOC LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1995 Version End Date:</p>
Not shown	1971	E	532800 182000	<p>Status: Historical Licence No: 28/39/39/0069 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'c' At Royal London House, Finsbury Square, London Data Type: Point Name: ROYAL LONDON MUTUAL INS SOC LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1995 Version End Date:</p>
Not shown	1971	E	532800 182000	<p>Status: Historical Licence No: 28/39/39/0069 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'b' At Royal London House, Finsbury Square, London Data Type: Point Name: ROYAL LONDON MUTUAL INS SOC LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: 17/11/1995 Version End Date:</p>
Not shown	1979	W	528830 181900	<p>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</p> <p>Annual Volume (m³): 50000 Max Daily Volume (m³): 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:</p>
Not shown	1979	W	528830 181900	<p>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</p> <p>Annual Volume (m³): 50000 Max Daily Volume (m³): 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:</p>

6.4 Surface Water Abstraction Licences

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

Yes

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	1593	N	530310 183520	<p>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</p> <p>Annual Volume (m³): 7010000 Max Daily Volume (m³): 19520 Application No: - Original Start Date: 18/7/1980 Expiry Date: - Issue No: 101 Version Start Date: 17/12/2007 Version End Date:</p>
Not shown	1612	NE	532100 183000	<p>Status: Active Licence No: 28/39/39/0164 Details: Non-Evaporative Cooling Direct Source: Thames Surface Water - Non Tidal Point: City Road Basin, Wharf Road, N1 - Regents Canal Data Type: Point Name: Canal and River Trust</p> <p>Annual Volume (m³): 7010000 Max Daily Volume (m³): 19520 Application No: - Original Start Date: 18/7/1980 Expiry Date: - Issue No: 101 Version Start Date: 17/12/2007 Version End Date:</p>
Not shown	1913	NW	529750 183600	<p>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</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 18/9/1991 Version End Date:</p>
Not shown	1913	NW	529750 183600	<p>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</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Application No: - Original Start Date: 18/9/1991 Expiry Date: - Issue No: 100 Version Start Date: 18/9/1991 Version End Date:</p>

6.5 Potable Water Abstraction Licences

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

Yes

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	834	E	531650 182150	<p>Status: Active Licence No: 28/39/39/0206 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: 86-88 Clerkenwell Road, London-Borehole A Data Type: Point Name: Urban Hotels UK LLP</p> <p>Annual Volume (m³): 25404 Max Daily Volume (m³): 125 Original Application No: NPS/WR/010632 Original Start Date: 4/7/2003 Expiry Date: 31/3/2025 Issue No: 4 Version Start Date: Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details
Not shown	869	NE	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 (m³): 1261440 Max Daily Volume (m³): 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	875	NE	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 (m³): 1261440 Max Daily Volume (m³): 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>
Not shown	1021	SE	531300 181100	<p>Status: Historical Licence No: 28/39/39/0077 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole At 37 Fleet Street, London Ec4 Data Type: Point Name: C HOARE & CO</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:</p>
Not shown	1046	S	531050 180980	<p>Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Globe House, Victoria Embankment- Borehole C Data Type: Point Name: COMMERZ GRUNDBESITZ INVEST. MBH</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/1/1966 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:</p>
Not shown	1048	S	531060 180980	<p>Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Globe House, Victoria Embankment- Borehole A Data Type: Point Name: COMMERZ GRUNDBESITZ INVEST. MBH</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/1/1966 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:</p>
Not shown	1051	S	531030 180970	<p>Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Globe House, Victoria Embankment- Borehole B Data Type: Point Name: COMMERZ GRUNDBESITZ INVEST. MBH</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/1/1966 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details	
Not shown	1076	NE	531452 182887	Status: Active Licence No: TH/039/0039/060 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Borehole At Saddlers Wells Data Type: Point Name: THAMES WATER UTILITIES LTD	Annual Volume (m ³): 473040 Max Daily Volume (m ³): 1296 Original Application No: NPS/WR/009228 Original Start Date: 1/4/2013 Expiry Date: 31/3/2025 Issue No: 1 Version Start Date: Version End Date:
Not shown	1085	NE	531450 182900	Status: Historical Licence No: 28/39/39/0188 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole At Sadler's Wells Theatre, London Data Type: Point Name: SADLER'S WELLS TRUST LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/9/1998 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: Version End Date:
Not shown	1085	NE	531450 182900	Status: Historical Licence No: 28/39/39/0188 Details: Water Bottling Direct Source: Thames Groundwater Point: Borehole At Sadlers Wells Theatre, London Data Type: Point Name: SADLERS WELLS TRUST LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: A/N/6488 Original Start Date: - Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: Version End Date:
Not shown	1085	NE	531450 182900	Status: Historical Licence No: 28/39/39/0188 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole At Sadlers Wells Theatre, London Data Type: Point Name: SADLERS WELLS TRUST LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: A/N/6488 Original Start Date: - Expiry Date: 31/12/2004 Issue No: 100 Version Start Date: Version End Date:
Not shown	1085	NE	531450 182900	Status: Historical Licence No: 28/39/39/0208 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Sadler's Wells Theatre, London Data Type: Point Name: THAMES WATER UTILITIES LTD	Annual Volume (m ³): 473040 Max Daily Volume (m ³): 1296 Original Application No: WRA/R/1010 Original Start Date: 13/12/2004 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: Version End Date:
Not shown	1085	NE	531450 182900	Status: Historical Licence No: 28/39/39/0188 Details: Water Bottling Direct Source: Thames Groundwater Point: Borehole At Sadler's Wells Theatre, London Data Type: Point Name: SADLER'S WELLS TRUST LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/9/1998 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: Version End Date:
Not shown	1085	NE	531450 182900	Status: Historical Licence No: 28/39/39/0208 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Borehole At Sadler's Wells Theatre, London Data Type: Point Name: THAMES WATER UTILITIES LTD	Annual Volume (m ³): 473040 Max Daily Volume (m ³): 1296 Original Application No: WRA/R/1010 Original Start Date: 13/12/2004 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1213	S	531000 180800	<p>Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'b' At Globe House, Temple Place, London Data Type: Point Name: HAMMERSON UK PROPERTIES PLC</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/1/1966 Expiry Date: - Issue No: 100 Version Start Date: - Version End Date: -</p>
Not shown	1213	S	531000 180800	<p>Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'c' At Globe House, Temple Place, London Data Type: Point Name: HAMMERSON UK PROPERTIES PLC</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/1/1966 Expiry Date: - Issue No: 100 Version Start Date: - Version End Date: -</p>
Not shown	1213	S	531000 180800	<p>Status: Historical Licence No: 28/39/39/0025 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'a' At Globe House, Temple Place, London Data Type: Point Name: HAMMERSON UK PROPERTIES PLC</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/1/1966 Expiry Date: - Issue No: 100 Version Start Date: - Version End Date: -</p>
Not shown	1293	SE	531500 180900	<p>Status: Historical Licence No: 28/39/39/0057 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Two Boreholes At Unilever House, Blackfriars, London Ec4 Data Type: Point Name: UNILEVER LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 9/5/1966 Expiry Date: - Issue No: 100 Version Start Date: - Version End Date: -</p>
Not shown	1408	SE	532100 181400	<p>Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'b' At St. Martins Le Grand, London Ec1 Data Type: Point Name: ST MARTINS PROPERTY CORPORATION LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 5/9/1966 Expiry Date: - Issue No: 100 Version Start Date: - Version End Date: -</p>
Not shown	1454	SE	532100 181300	<p>Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'c' At St. Martins Le Grand, London Ec1 Data Type: Point Name: ST MARTINS PROPERTY CORPORATION LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 5/9/1966 Expiry Date: - Issue No: 100 Version Start Date: - Version End Date: -</p>

ID	Distance (m)	Direction	NGR	Details	
Not shown	1475	SE	532160 181370	Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: St. Martins Le Grand- Borehole B Data Type: Point Name: ST MARTINS PROPERTY CORP. LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 5/9/1966 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:
Not shown	1486	SE	531950 181030	Status: Active Licence No: TH/039/0039/066 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Grange St Paul's Hotel- Borehole Data Type: Point Name: GLOBAL GRANGE LIMITED	Annual Volume (m ³): 45625 Max Daily Volume (m ³): 125 Original Application No: NPS/WR/009183 Original Start Date: 1/4/2013 Expiry Date: 31/3/2019 Issue No: 1 Version Start Date: Version End Date:
Not shown	1486	SE	531950 181030	Status: Historical Licence No: 28/39/39/0229 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Grange St Paul's Hotel- Borehole Data Type: Point Name: GLOBAL GRANGE LIMITED	Annual Volume (m ³): 73000 Max Daily Volume (m ³): 200 Original Application No: GEN/39/163 Original Start Date: 17/1/2007 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: Version End Date:
Not shown	1507	SE	532160 181300	Status: Historical Licence No: 28/39/39/0112 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: St. Martins Le Grand, London- Borehole C Data Type: Point Name: ST MARTINS PROPERTY CORP. LTD	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 5/9/1966 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:
Not shown	1680	N	531022 183681	Status: Active Licence No: TH/039/0039/057 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Borehole At Barnard Park Data Type: Point Name: THAMES WATER UTILITIES LTD	Annual Volume (m ³): 914544 Max Daily Volume (m ³): 3024 Original Application No: NPS/WR/009227 Original Start Date: 1/4/2013 Expiry Date: 31/3/2025 Issue No: 1 Version Start Date: Version End Date:
Not shown	1689	N	531020 183690	Status: Historical Licence No: 28/39/39/0207 Details: Potable Water Supply - Direct Direct Source: Thames Groundwater Point: Barnard Park, Islington - Borehole Data Type: Point Name: THAMES WATER UTILITIES LTD	Annual Volume (m ³): 914544 Max Daily Volume (m ³): 3024 Original Application No: - Original Start Date: 2/5/2003 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: Version End Date:
Not shown	1713	SW	529960 180510	Status: Historical Licence No: 28/39/39/0212 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: The National Gallery- Borehole Data Type: Point Name: THE NATIONAL GALLERY	Annual Volume (m ³): 30558 Max Daily Volume (m ³): 83.7 Original Application No: WRA/N/1311 Original Start Date: 27/10/2004 Expiry Date: 31/3/2013 Issue No: 1 Version Start Date: Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1781	SE	531600 180400	<p>Status: Historical Licence No: 28/39/42/0004 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Stamford House, Stamford Street, - Borehole 'a' Data Type: Point Name: J SAINSBURY LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR/RG568 Original Start Date: 13/12/1965 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:</p>
Not shown	1781	SE	531600 180400	<p>Status: Historical Licence No: 28/39/42/0004 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Stamford House, Stamford Street, - Borehole Data Type: Point Name: BEETHAM LANDMARK LONDON LTD</p> <p>Annual Volume (m³): 47733 Max Daily Volume (m³): 327.32 Original Application No: - Original Start Date: 13/12/1965 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:</p>
Not shown	1810	W	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 (m³): 9126 Max Daily Volume (m³): 25 Original Application No: - Original Start Date: 11/10/1971 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:</p>
Not shown	1810	W	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 (m³): 9126 Max Daily Volume (m³): 25 Original Application No: - Original Start Date: 11/10/1971 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:</p>
Not shown	1840	SE	532300 180900	<p>Status: Historical Licence No: 28/39/39/0071 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole At Beaver House, Great Trinity Street, London Ec4 Data Type: Point Name: DTZ DEBENHAM TIE LEUNG LIMITED</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 101 Version Start Date: Version End Date:</p>
Not shown	1912	W	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 (m³): 9126 Max Daily Volume (m³): 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>

ID	Distance (m)	Direction	NGR	Details
Not shown	1919	W	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 (m³): 9126 Max Daily Volume (m³): 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	1939	W	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 (m³): 9126 Max Daily Volume (m³): 25 Original Application No: - Original Start Date: 11/10/1971 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:</p>
Not shown	1939	W	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 (m³): 9126 Max Daily Volume (m³): 25 Original Application No: - Original Start Date: 11/10/1971 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:</p>
Not shown	1946	SE	532600 181200	<p>Status: Historical Licence No: 28/39/39/0098 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'd' At Poultry, London Ec2 Data Type: Point Name: HSBC BANK plc</p> <p>Annual Volume (m³): 33317.6 Max Daily Volume (m³): 90.92 Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:</p>
Not shown	1946	SE	532600 181200	<p>Status: Historical Licence No: 28/39/39/0098 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'a' At Poultry, London Ec2 Data Type: Point Name: HSBC BANK plc</p> <p>Annual Volume (m³): 33317.6 Max Daily Volume (m³): 90.92 Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:</p>
Not shown	1946	SE	532600 181200	<p>Status: Historical Licence No: 28/39/39/0098 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'c' At Poultry, London Ec2 Data Type: Point Name: HSBC BANK plc</p> <p>Annual Volume (m³): 33317.6 Max Daily Volume (m³): 90.92 Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:</p>

ID	Distance (m)	Direction	NGR	Details
Not shown	1946	SE	532600 181200	<p>Status: Historical Licence No: 28/39/39/0098 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'b' At Poultry, London Ec2 Data Type: Point Name: HSBC BANK plc</p> <p>Annual Volume (m³): 33317.6 Max Daily Volume (m³): 90.92 Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:</p>
Not shown	1971	E	532800 182000	<p>Status: Historical Licence No: 28/39/39/0069 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'b' At Royal London House, Finsbury Square, London Data Type: Point Name: ROYAL LONDON MUTUAL INS SOC LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:</p>
Not shown	1971	E	532800 182000	<p>Status: Historical Licence No: 28/39/39/0069 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'd' At Royal House, Finsbury Square, London Data Type: Point Name: ROYAL LONDON MUTUAL INS SOC LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:</p>
Not shown	1971	E	532800 182000	<p>Status: Historical Licence No: 28/39/39/0069 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Thames Groundwater Point: Borehole 'c' At Royal London House, Finsbury Square, London Data Type: Point Name: ROYAL LONDON MUTUAL INS SOC LTD</p> <p>Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 13/6/1966 Expiry Date: - Issue No: 100 Version Start Date: Version End Date:</p>

6.6 Source Protection Zones

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

No

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? No

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? Yes

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? No

6.9.1 Biological Quality:

Database searched and no data found.

6.9.2 Chemical Quality:

Database searched and no data found.

6.10 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site? Yes

The following Detailed River Network records are represented on the Hydrology Map (6e):

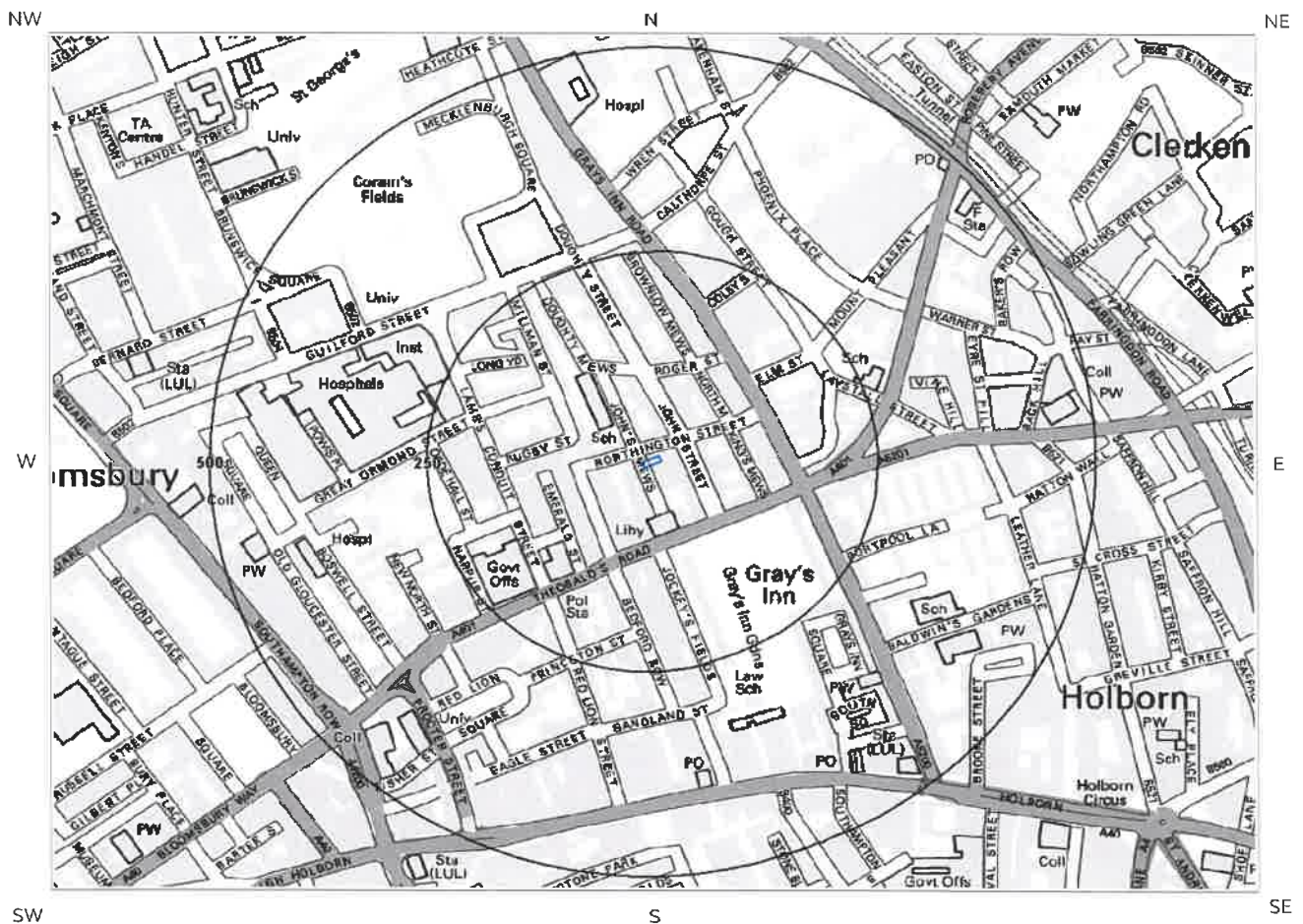
ID	Distance (m)	Direction	Details	
1	307	E	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
2	419	SW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined

6.11 Surface Water Features

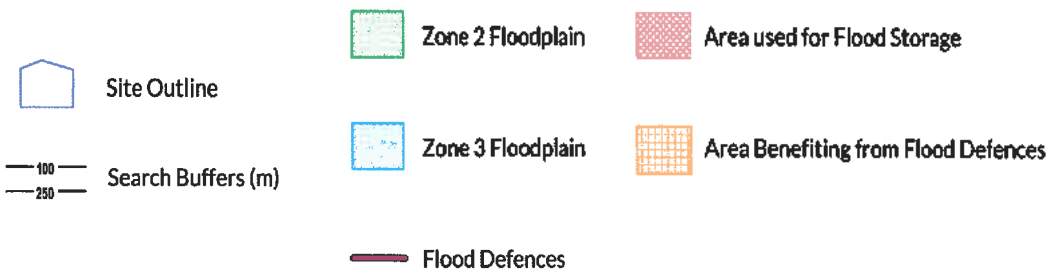
Are there any surface water features within 250m of the study site? No

Database searched and no data found.

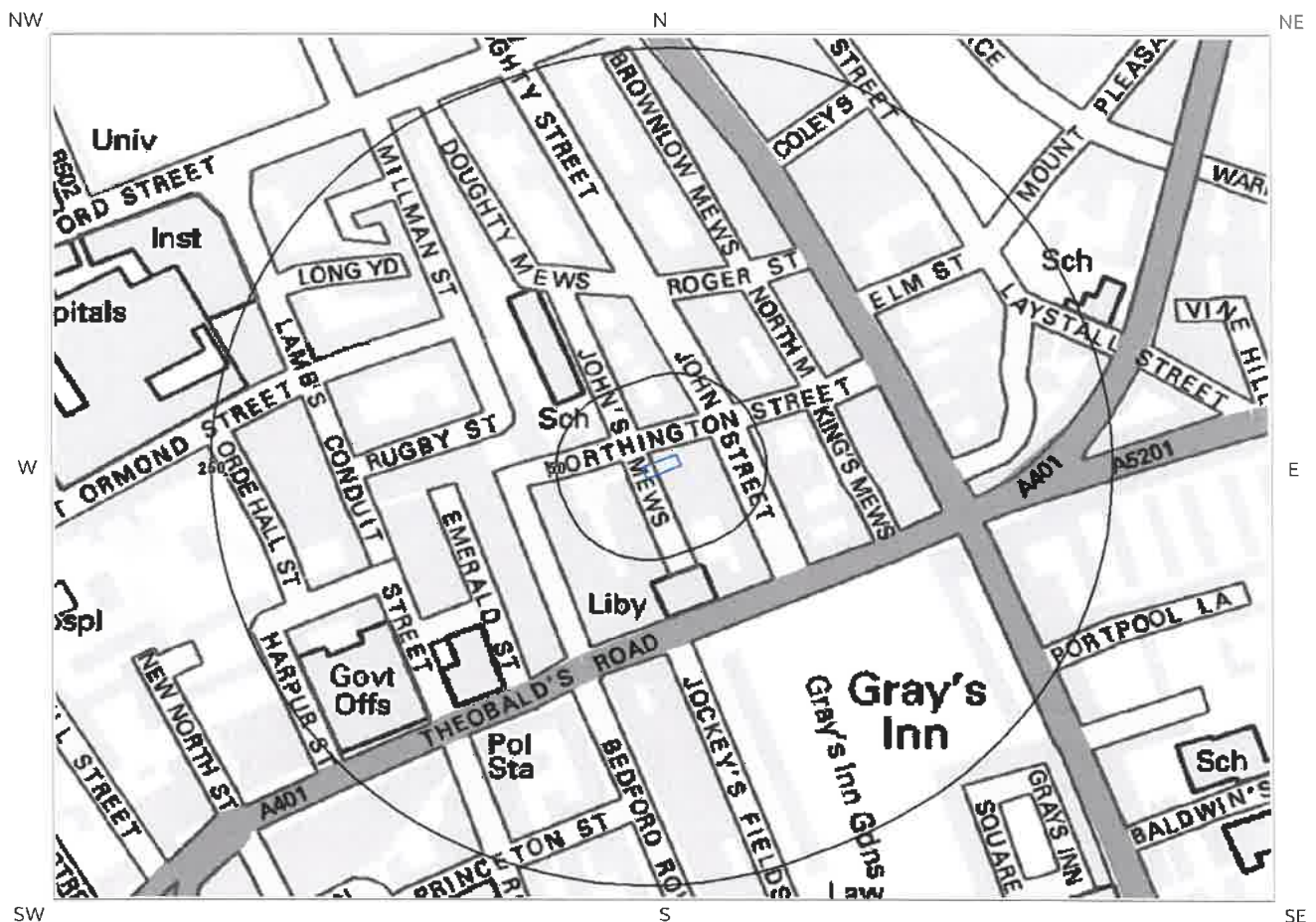
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



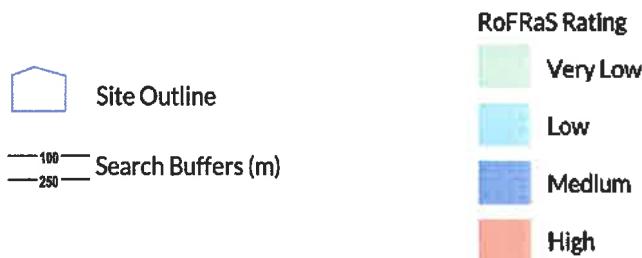
© Crown copyright and database rights 2017.
Ordnance Survey license 100035207.



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



© Crown copyright and database rights 2017.
Ordnance Survey license 100036207.



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? No

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? No

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? No
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? No

7.6 Areas benefiting from Flood Storage

Are there any areas used for Flood Storage within 250m of the study site?

No

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? Yes

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 below Surface

Where potential for groundwater flooding of property situated below ground level is indicated, this means that given the geological conditions there may be a groundwater flooding hazard to basements and other below surface infrastructure. Unless other relevant information, e.g. records of previous flooding, suggests groundwater flooding has occurred before in this area you need take no further action in relation to groundwater flooding hazard. If there are records of previous incidences of groundwater flooding, then is recommended that other information e.g. rainfall history, property type, and land drainage information in addition to previous records of flooding be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

7.8 Groundwater Flooding Confidence Areas

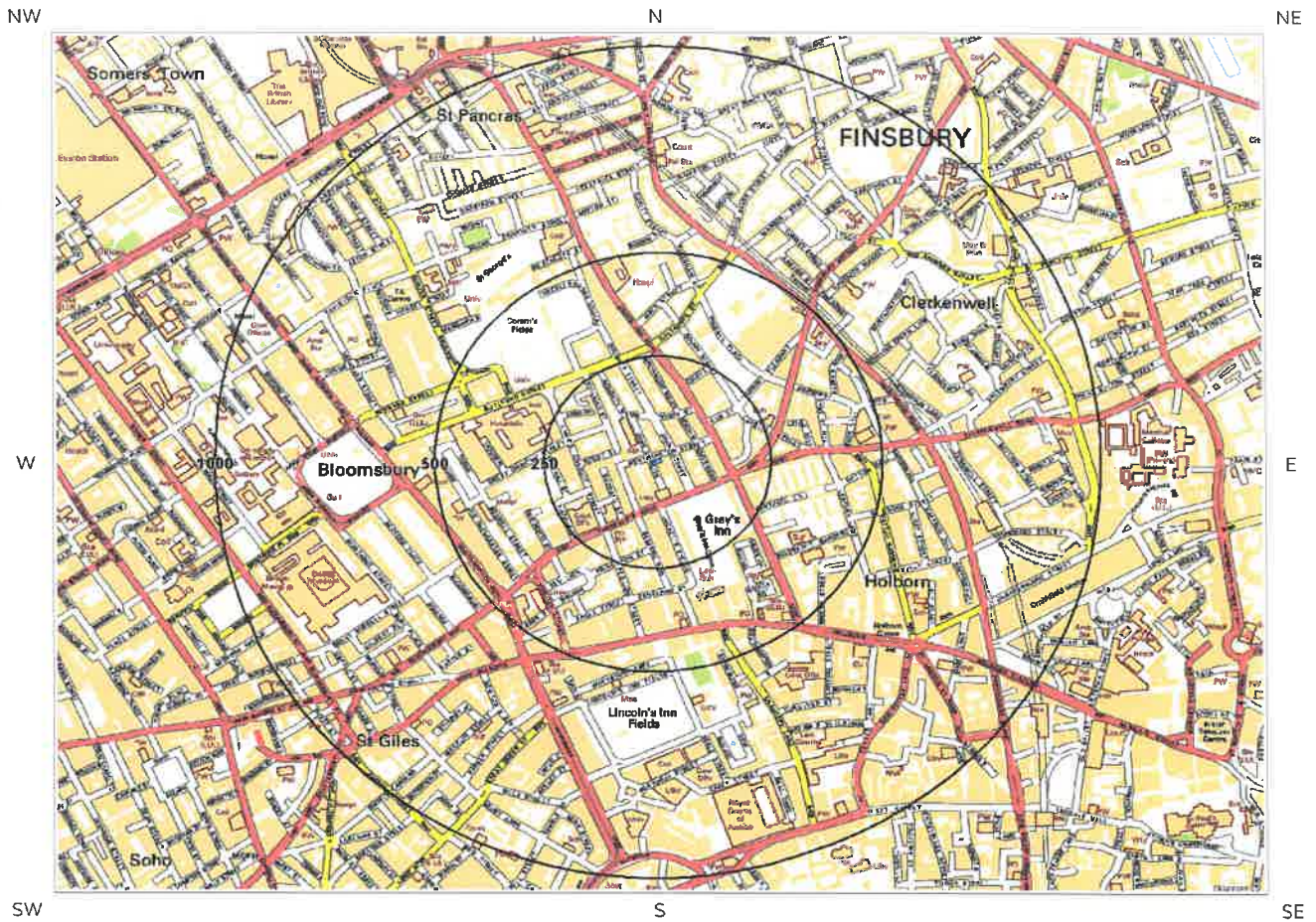
What is the British Geological Survey confidence rating in this result?

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



© Crown copyright and database rights 2017.
Ordnance Survey license 100035207.



8. Designated Environmentally Sensitive Sites

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

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:

Database searched and no data found.

0

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

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:

1

ID	Distance (m)	Direction	LNR Name	Data Source
Not shown	1570	NW	Camley Street Nature Park	Natural England

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

Database searched and no data found.

0

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

Database searched and no data found.

0

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

Database searched and no data found.

0

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

Database searched and no data found.

0

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? Negligible

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

Hazard
Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.

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 property 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? No

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? No

Database searched and no data found.

10.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site? No
Guidance: No Guidance Required.

Contact Details

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

British Geological Survey Enquiries

Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:

Web: www.bgs.ac.uk

BGS Geological Hazards Reports and general geological enquiries:
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

Email: enquiries@environment-agency.gov.uk

Public Health England

Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
www.gov.uk/phe

Email: enquiries@phe.gov.uk
Main switchboard: 020 7654 8000

The Coal Authority

200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
www.coal.gov.uk

Ordnance Survey

Adanac Drive, Southampton
SO16 0AS
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,
Hampshire RG27 8NW
Tel: 01252 845444



Public Health England



The Coal Authority



APPENDIX 3 – CHEMICAL TEST RESULTS



Final Report

Report No.: 17-31801-1

Initial Date of Issue: 06-Dec-2017

Client: Ground Engineering Limited

Client Address: Newark Road
Peterborough
Cambridgeshire
PE1 5UA

Contact(s): Steve Fleming

Project: C14337 - 27 John's Mews, London
WC1

Quotation No.: **Date Received:** 29-Nov-2017


Order No.: C14337 **Date Instructed:** 29-Nov-2017

No. of Samples: 7

Turnaround (Wkdays): 5 **Results Due:** 05-Dec-2017

Date Approved: 06-Dec-2017

Approved By:



Details: Martin Dyer, Laboratory Manager

Results - Soil

Client: Ground Engineering Limited		Chemtest Job No.:		17-31801	17-31801	17-31801	17-31801	17-31801	17-31801
Quotation No.:		Chemtest Sample ID.:		546643	546645	546646	546647	546648	546649
Order No.: C14337		Client Sample Ref.:		BH1	BH1	TP1	TP1	TP2	TP3
		Client Sample ID.:		B3	B7	D2	D8	D5	D3
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.85	3.10	0.50	2.40	1.50	0.90
		Bottom Depth (m):		1.20	3.50				
		Date Sampled:		23-Nov-2017	23-Nov-2017	23-Nov-2017	24-Nov-2017	24-Nov-2017	24-Nov-2017
		Asbestos Lab:				COVENTRY		COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD					
pH	U	2010	N/A		10.3	8.4	8.5	9.7	8.3
Moisture	N	2030	%		17	18	17	12	9.4
Stones and Removed Materials	N	2030	%	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	0.94	2.3	1.3	0.73	1.2
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	0.68	0.23	0.20	0.31	1.2
Cyanide (Free)	U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	U	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)	U	2325	mg/kg	0.50	2.3	1.8	2.1	2.8	1.8
Arsenic	U	2450	mg/kg	1.0	18	24	21	21	23
Cadmium	U	2450	mg/kg	0.10	0.11	0.19	0.15	0.12	0.27
Chromium	U	2450	mg/kg	1.0	17	35	16	17	8.2
Copper	U	2450	mg/kg	0.50	46	45	60	66	30
Mercury	U	2450	mg/kg	0.10	1.0	0.67	2.0	1.7	1.6
Nickel	U	2450	mg/kg	0.50	18	41	18	19	9.7
Lead	U	2450	mg/kg	0.50	520	340	720	610	360
Selenium	U	2450	mg/kg	0.20	0.35	0.94	0.68	0.57	< 0.20
Zinc	U	2450	mg/kg	0.50	52	83	70	61	100
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Organic Matter	U	2625	%	0.40	1.6	3.5	4.1	3.6	1.7
Acenaphthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz[a,h]Anthracene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno[1,2,3-c,d]Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Naphthalene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Total Phenols	U	2920	mg/kg	0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

Results - Soil

Client: Ground Engineering Limited	Chemtest Job No.: 17-31801	17-31801	17-31801	17-31801	17-31801	17-31801	17-31801
Quotation No.:	Chemtest Sample ID.: 546643	546643	546645	546646	546647	546648	546649
Order No.: C14337	Client Sample Ref.: BH1	BH1	BH1	TP1	TP1	TP2	TP3
	Client Sample ID.: B3	B3	B7	D2	D8	D5	D3
	Sample Type: SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m): 0.85	0.85	3.10	0.50	2.40	1.50	0.90
	Bottom Depth (m): 1.20	1.20	3.50				
	Date Sampled: 23-Nov-2017	23-Nov-2017	23-Nov-2017	23-Nov-2017	24-Nov-2017	24-Nov-2017	24-Nov-2017
	Asbestos Lab:			COVENTRY		COVENTRY	COVENTRY
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A		-	-
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Total TPH > C6-C40	U	2670	mg/kg	10	< 10	< 10	< 10

Results - Single Stage WAC

Project: C14337 - 27 John's Mews, London WC1

Chemtest Job No: 17-31801

Chemtest Sample ID: 546644

Sample Ref: BH1

Sample ID: B5

Top Depth(m): 2.00

Bottom Depth(m): 2.50

Sampling Date: 23-Nov-2017

Determinand	SOP	Accred.	Units	Landfill Waste Acceptance Criteria		
				Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon	2625	U	%	0.88	5	6
Loss On Ignition	2610	U	%	3.1	--	10
Total BTEX	2760	U	mg/kg	< 0.010	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg	< 0.10	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg	< 10	--	--
Total (Of 17) PAH's	2700	N	mg/kg	< 2.0	--	--
pH	2010	U		10.6	> 6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.060	To evaluate	To evaluate
Eluate Analysis			10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
Arsenic	1450	U	0.0020	< 0.050	0.5	25
Barium	1450	U	0.022	< 0.50	20	100
Cadmium	1450	U	< 0.00010	< 0.010	0.04	1
Chromium	1450	U	< 0.0010	< 0.050	0.5	10
Copper	1450	U	0.022	0.22	2	50
Mercury	1450	U	< 0.00050	< 0.0050	0.01	0.2
Molybdenum	1450	U	0.0087	0.087	0.5	10
Nickel	1450	U	0.0017	< 0.050	0.4	10
Lead	1450	U	0.0034	0.034	0.5	10
Antimony	1450	U	0.0034	0.034	0.06	0.7
Selenium	1450	U	< 0.0010	< 0.010	0.1	0.5
Zinc	1450	U	< 0.0010	< 0.50	4	50
Chloride	1220	U	120	1200	800	15000
Fluoride	1220	U	0.50	5.0	10	150
Sulphate	1220	U	70	700	1000	20000
Total Dissolved Solids	1020	N	350	3500	4000	60000
Phenol Index	1920	U	< 0.030	< 0.30	1	--
Dissolved Organic Carbon	1610	U	7.3	73	500	800

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by Inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6-C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8-C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.

SOP	Title	Parameters included	Method summary
2815	Polychlorinated Biphenyls (PCB) ICES7 Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and Trimethylphenols Note: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.

Report Information

Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.co.uk



Final Report

Report No.: 17-33035-1

Initial Date of Issue: 15-Dec-2017

Client: Ground Engineering Limited

Client Address: Newark Road
Peterborough
Cambridgeshire
PE1 5UA

Contact(s): Steve Fleming

Project: C14337 27 John's Mews, London WC1

Quotation No.: **Date Received:** 11-Dec-2017


Order No.: C14337 **Date Instructed:** 11-Dec-2017

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 15-Dec-2017

Date Approved: 15-Dec-2017

Approved By:



Details: Robert Monk, Technical Manager

Client: Ground Engineering Limited		Chemtest Job No.: 17-33035		
Quotation No.:		Chemtest Sample ID.: 552708		
Order No.: C14337		Client Sample Ref.: BH1		
		Sample Type: WATER		
		Top Depth (m): 3.60		
		Date Sampled: 04-Dec-2017		
Determinand	Accred.	SOP	Units	LOD
pH	U	1010	N/A	7.7
Boron (Dissolved)	U	1450	µg/l	20
Sulphate	U	1220	mg/l	250
Cyanide (Free)	U	1300	mg/l	< 0.050
Cyanide (Total)	U	1300	mg/l	< 0.050
Sulphide	U	1325	mg/l	[B] < 0.050
Arsenic (Dissolved)	U	1450	µg/l	1.0
Cadmium (Dissolved)	U	1450	µg/l	< 0.080
Chromium (Dissolved)	U	1450	µg/l	1.0
Copper (Dissolved)	U	1450	µg/l	1.0
Mercury (Dissolved)	U	1450	µg/l	0.50
Nickel (Dissolved)	U	1450	µg/l	1.0
Lead (Dissolved)	U	1450	µg/l	1.0
Selenium (Dissolved)	U	1450	µg/l	1.0
Zinc (Dissolved)	U	1450	µg/l	1.0
Acenaphthene	N	1700	µg/l	< 0.010
Acenaphthylene	N	1700	µg/l	< 0.010
Anthracene	N	1700	µg/l	< 0.010
Benzo[a]anthracene	N	1700	µg/l	< 0.010
Benzo[a]pyrene	N	1700	µg/l	< 0.010
Benzo[b]fluoranthene	N	1700	µg/l	< 0.010
Benzo[g,h,i]perylene	N	1700	µg/l	< 0.010
Benzo[k]fluoranthene	N	1700	µg/l	< 0.010
Chrysene	N	1700	µg/l	< 0.010
Dibenz[a,h]Anthracene	N	1700	µg/l	< 0.010
Fluoranthene	N	1700	µg/l	< 0.010
Fluorene	N	1700	µg/l	< 0.010
Indeno[1,2,3-c,d]Pyrene	N	1700	µg/l	< 0.010
Naphthalene	N	1700	µg/l	< 0.010
Phenanthrene	N	1700	µg/l	< 0.010
Pyrene	N	1700	µg/l	< 0.010
Total Of 16 PAH's	N	1700	µg/l	< 0.20
Total Phenols	U	1920	mg/l	< 0.030
Total Hardness as CaCO3	U	1270	mg/l	15
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10

Client: Ground Engineering Limited		Chemtest Job No.:	17-33035	
Quotation No.:		Chemtest Sample ID.:	552706	
Order No.: C14337		Client Sample Ref.:	BH1	
		Sample Type:	WATER	
		Top Depth (m):	3.60	
		Date Sampled:	04-Dec-2017	
Determinand	Accred.	SOP	Units	LOD
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10
Aromatic TPH >C16-C21	N	1675	µg/l	0.10
Aromatic TPH >C21-C35	N	1675	µg/l	0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10
				< 0.10
				< 0.10
				< 5.0
				< 0.10
				< 0.10
				< 0.10
				< 0.10
				< 5.0
				< 10

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample ID:	Sample Ref:	Sample ID:	Sampled Date:	Deviation Code(s):	Containers Received:
552706	BH1		04-Dec-2017	B	Coloured Winchester 1000ml
552706	BH1		04-Dec-2017	B	Plastic Bottle 1000ml

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l ⁻¹ CaCO ₃ equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N-dimethyl-pphenylenediamine.
1415	Cations in Waters by ICP-MS	Sodium; Potassium; Calcium; Magnesium	Direct determination by inductively coupled plasma - mass spectrometry (ICP-MS).
1450	Metals In Waters by ICP-MS	Metals, Including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C5-C6, >C6-C8, >C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35-C44 Aromatics: >C5-C7, >C7-C8, >C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35-C44	Pentane extraction / GCxGC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GC FID detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.co.uk

APPENDIX 4

**CLASSIFICATION OF AGGRESSIVE CHEMICAL
ENVIRONMENT FOR BURIED CONCRETE**

TABLE C2 – AGGRESSIVE CHEMICAL ENVIRONMENT FOR CONCRETE

(ACEC) CLASSIFICATION FOR BROWNFIELD LOCATIONS^a

Table C2 Aggressive Chemical Environment for Concrete (ACEC) classification for brownfield locations ^a								
Sulfate and magnesium					Groundwater			ACEC Class for location
Design Sulfate Class for location	2:1 water/soil extract ^b		Groundwater		Total potential sulfate ^c	Static water	Mobile water	
1	2 (SO ₄ mg/l)	3 (Mg mg/l)	4 (SO ₄ mg/l)	5 (Mg mg/l)	6 (SO ₄ %)	7 (pH) ^d	8 (pH) ^e	9
DS-1	< 500		< 400		< 0.24	≥ 2.5		AC-1s
							> 6.5 ^d	AC-1
							5.5–6.5	AC-2z
							4.5–5.5	AC-3z
							2.5–4.5	AC-4z
DS-2	500–1500		400–1400		0.24–0.6	> 5.5		AC-1s
							> 6.5	AC-2
							2.5–5.5	AC-2s
							5.5–6.5	AC-3z
							4.5–5.5	AC-4z
DS-3	1600–3000		1500–3000		0.7–1.2	> 5.5		AC-2s
							> 6.5	AC-3
							2.5–5.5	AC-3s
							5.5–6.5	AC-4
							2.5–5.5	AC-5
DS-4	3100–6000	≤ 1200	3100–6000	≤ 1000	1.3–2.4	> 5.5		AC-3s
							> 6.5	AC-4
							2.5–5.5	AC-4s
							2.5–6.5	AC-5
DS-4m	3100–6000	> 1200 ^e	3100–6000	> 1000 ^e	1.3–2.4	> 5.5		AC-3s
							> 6.5	AC-4m
							2.5–5.5	AC-4ms
							2.5–6.5	AC-5m
DS-5	> 6000	≤ 1200	> 6000	≤ 1000	> 2.4	> 5.5		AC-4s
						2.5–5.5	≥ 2.5	AC-5
DS-5m	> 6000	> 1200 ^e	> 6000	> 1000 ^e	> 2.4	> 5.5		AC-4ms
						2.5–5.5	≥ 2.5	AC-5m

Notes

- a Brownfield locations are those sites, or parts of sites, that might contain chemical residues produced by or associated with industrial production (Section C5.1.3).
- b The limits of Design Sulfate Classes based on 2:1 water/soil extracts have been lowered from previous Digests (Box C7).
- c Applies only to locations where concrete will be exposed to sulfate ions (SO₄), which may result from the oxidation of sulfides such as pyrite, following ground disturbance (Appendix A1 and Box C8).
- d An additional account is taken of hydrochloric and nitric acids by adjustment to sulfate content (Section C5.1.3).
- e The limit on water-soluble magnesium does not apply to brackish groundwater (chloride content between 12 000 mg/l and 17 000 mg/l). This allows 'm' to be omitted from the relevant ACEC classification. Seawater (chloride content about 18 000 mg/l) and stronger brines are not covered by this table.

Explanation of suffix symbols to ACEC Class

- Suffix 's' indicates that the water has been classified as static.
- Concrete placed in ACEC Classes that include the suffix 'z' have primarily to resist acid conditions and may be made with any of the cements in Table D2 on page 42.
- Suffix 'm' relates to the higher levels of magnesium in Design Sulfate Classes 4 and 5.

© Crown Copyright

Produced from Building Research Establishment Special Digest 1, June 2005, by permission of the Controller of HM Stationery Office.