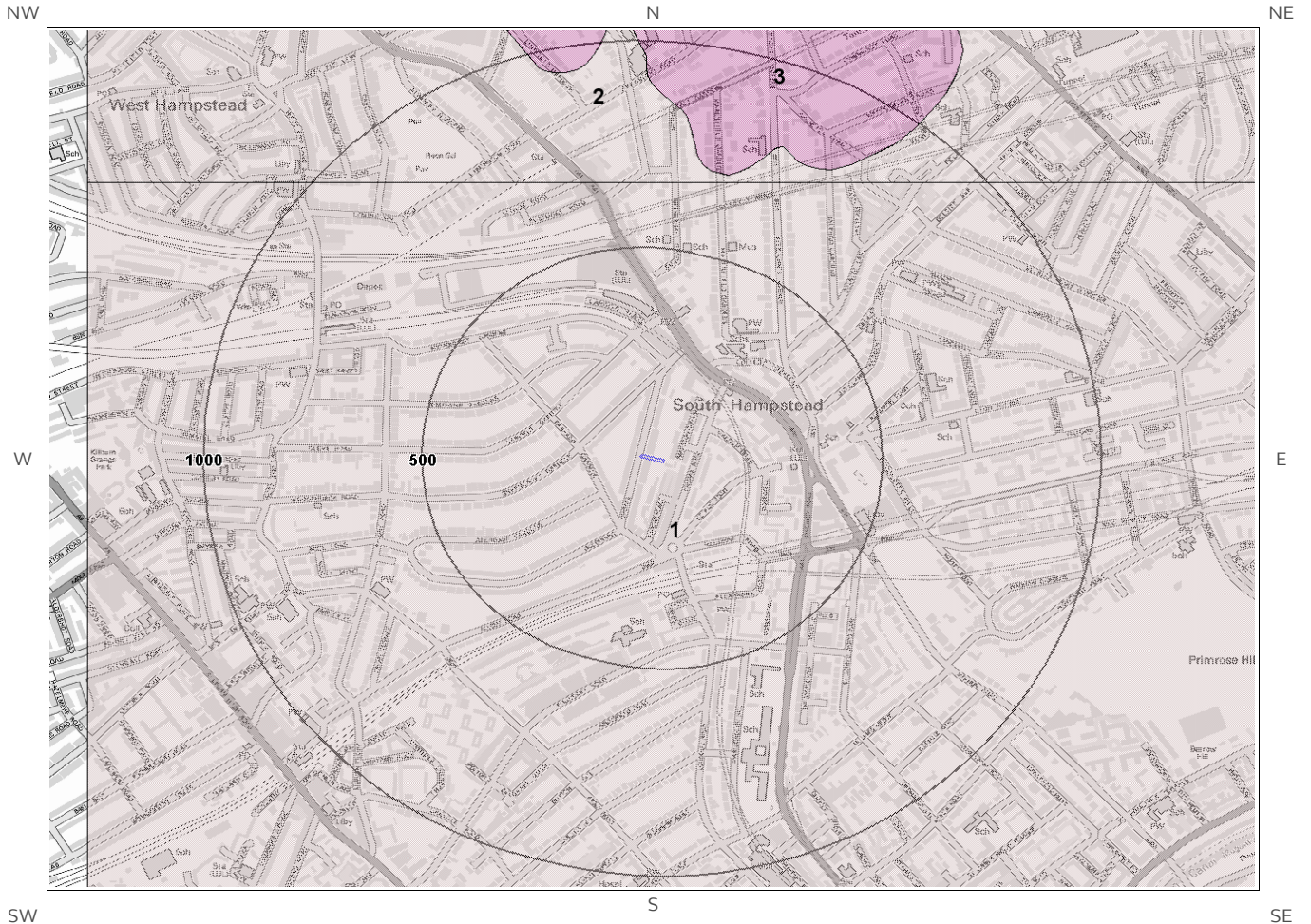





1.3 Bedrock and linear features map (1:10,000 scale)



Bedrock and linear features Legend

© Crown copyright and database rights 2018.
Ordnance Survey license 100035207.

-  Site Outline
 -  500
 -  1000
- Search Buffers (m)

1.3 Bedrock and linear features

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

1.3.1 Bedrock/ Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary at 1:10,000 scale.

ID	Distance (m)	Direction	LEX Code	Description	Rock Age
1	0.0	On Site	LC-CLAY	London Clay Formation - Clay	Eocene Epoch

1.3.2 Linear features

Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale? No

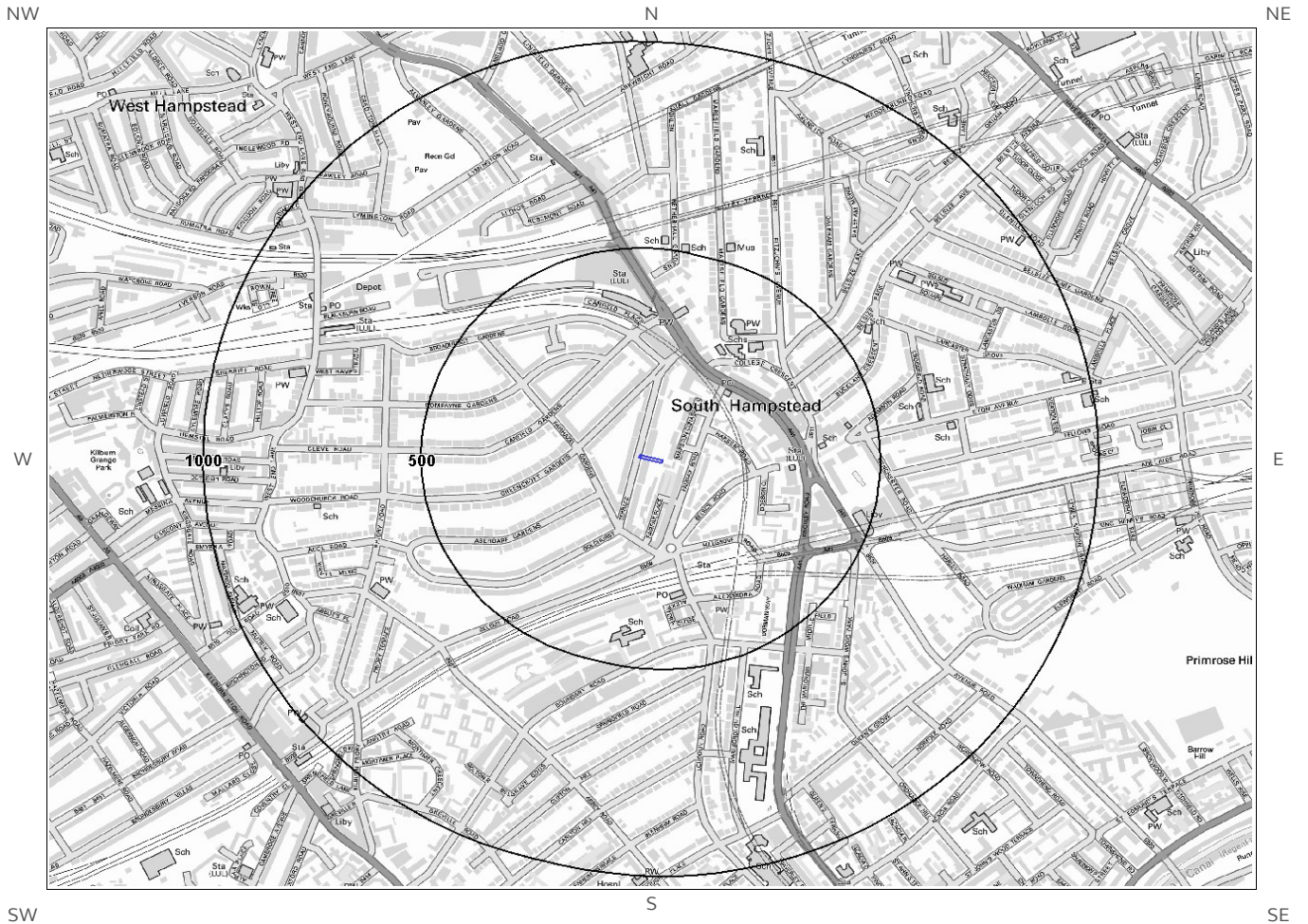
Database searched and no data found at this scale.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of great Britain at 1:10,000 scale.

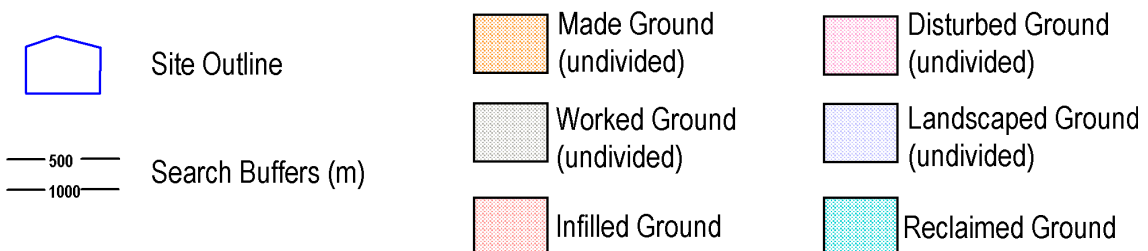
This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

2 Geology 1:50,000 Scale

2.1 Artificial Ground map



© Crown copyright and database rights 2018.
Ordnance Survey license 100035207.



2. Geology 1:50,000 scale

2.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 256

2.1.1 Artificial/ Made Ground

Are there any records of Artificial/ Made Ground within 500m of the study site boundary? No

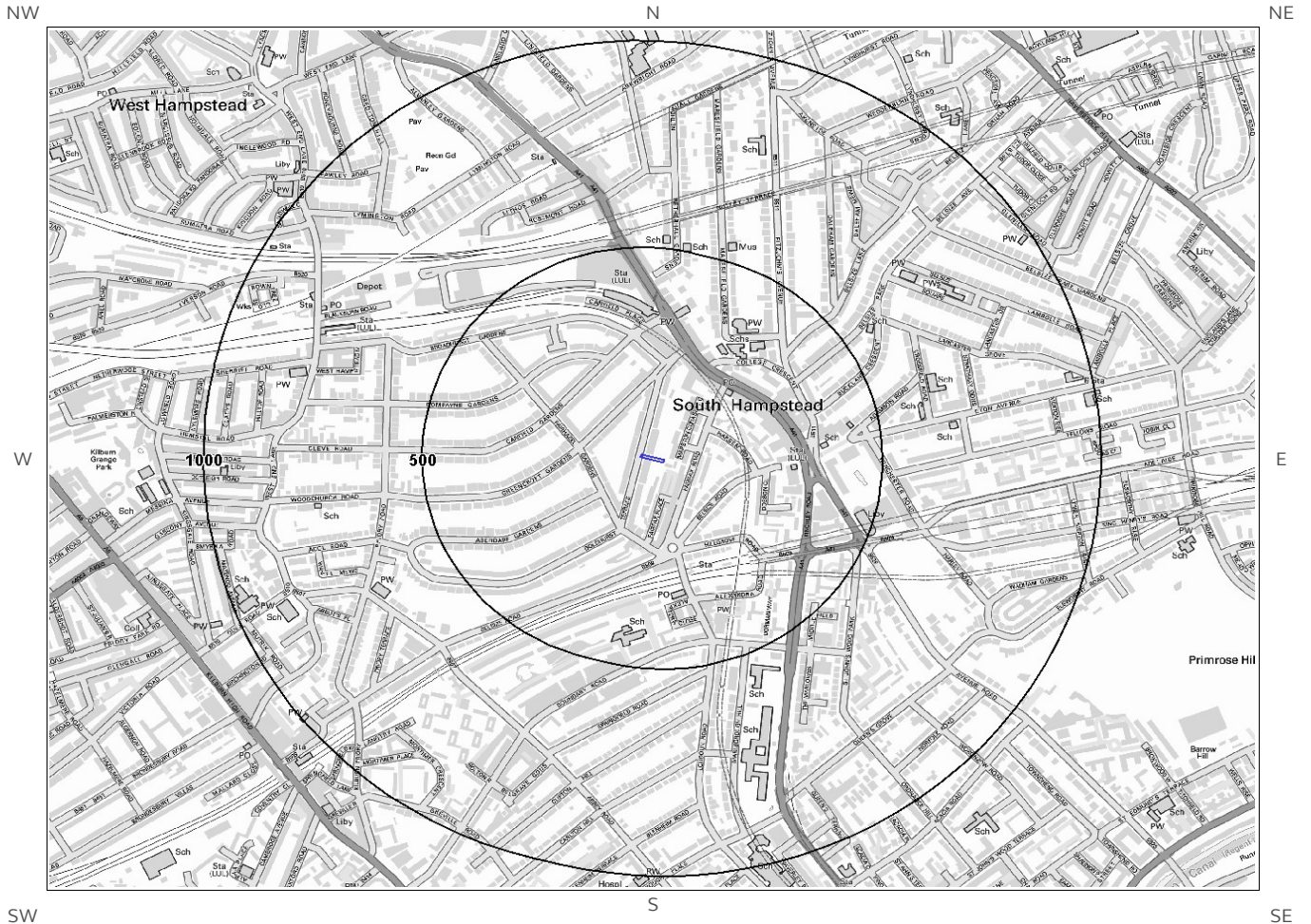
Database searched and no data found.

2.1.2 Permeability of Artificial Ground

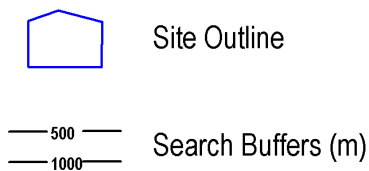
Are there any records relating to permeability of artificial ground within the study site boundary? No

Database searched and no data found.

2.2 Superficial Deposits and Landslips map (1:50,000 scale)



© Crown copyright and database rights 2018.
Ordnance Survey license 100035207.



2.2 Superficial Deposits and Landslips

2.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? No

Database searched and no data found.

2.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site boundary? No

Database searched and no data found.

2.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, there are: Artificial/ Made Ground, Superficial/ Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

2.2.4 Landslip Permeability

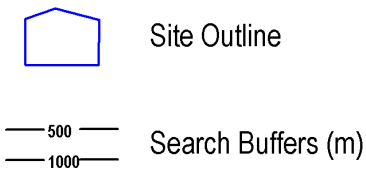
Are there any records relating to permeability of landslips within the study site boundary? No

Database searched and no data found.

2.3 Bedrock and linear features map (1:50,000 scale)



© Crown copyright and database rights 2018.
Ordnance Survey license 100035207.



2.3 Bedrock, Solid Geology & linear features

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 256

2.3.1 Bedrock/Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary:

ID	Distance	Direction	LEX Code	Rock Description	Rock Age
1	0.0	On Site	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN

2.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site boundary? Yes

Distance	Direction	Flow Type	Maximum Permeability	Minimum Permeability
0.0	On Site	Mixed	Moderate	Very Low

2.3.3 Linear features

Are there any records of linear features within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nation wide coverage.

3 Radon Data

3.1 Radon Affected Areas

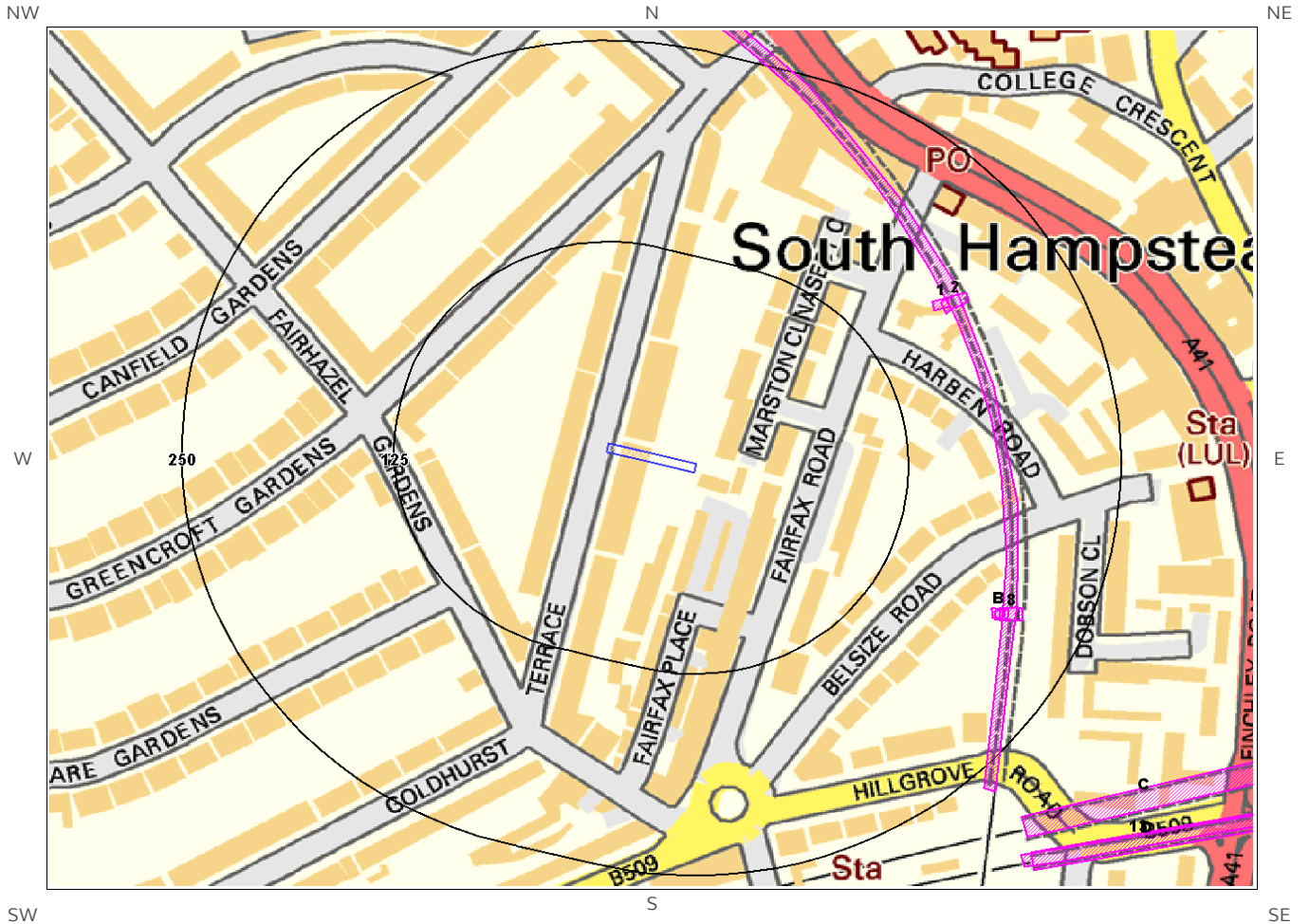
Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

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.

3.2 Radon Protection





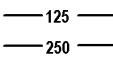
Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

4 Ground Workings map



Ground Workings Legend

© Crown copyright and database rights 2018.
Ordnance Survey license 100035207.

-  Site Outline
-  Current Ground Workings
-  Historic Surface Ground Workings
-  Historic Underground Workings
-  Search Buffers (m)

4 Ground Workings

4.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on Groundsure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? No

Database searched and no data found.

4.2 Historical Underground Working Features derived from Historical Mapping

This data is derived from the Groundsure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary? Yes

The following Historical Underground Working Features are provided by Groundsure:

ID	Distance (m)	Direction	NGR	Use	Date
1	169.0	NE	526462 184429	Air Shaft	1940
2	174.0	NE	526471 184430	Air Shaft	1957
3A	175.0	E	526483 184398	Tunnel	1968
4A	175.0	E	526483 184398	Tunnel	1957
5A	175.0	E	526483 184398	Tunnel	1973
6B	194.0	SE	526496 184238	Air Shaft	1940
7B	197.0	SE	526499 184237	Air Shaft	1920
8	198.0	SE	526504 184237	Air Shaft	1957
9C	288.0	SE	526978 184220	Tunnel	1989
10C	288.0	SE	526978 184220	Tunnel	1968
11C	288.0	SE	526978 184220	Tunnel	1957
12C	288.0	SE	526978 184220	Tunnel	1973
13	305.0	SE	527028 184182	Tunnels	1957

ID	Distance (m)	Direction	NGR	Use	Date
14D	308.0	SE	527018 184178	Tunnel	1989
15D	308.0	SE	527018 184178	Tunnel	1968
16D	308.0	SE	527018 184178	Tunnel	1973
Not shown	326.0	SE	527368 184142	Tunnels	1957
Not shown	329.0	SE	527362 184138	Tunnel	1973
Not shown	329.0	SE	527362 184138	Tunnel	1968
Not shown	329.0	SE	527362 184138	Tunnel	1989
Not shown	342.0	SE	526471 183522	Tunnel	1957
Not shown	342.0	SE	526452 183836	Tunnel	1968
Not shown	342.0	SE	526471 183522	Tunnel	1989
Not shown	342.0	SE	526471 183522	Tunnel	1973
Not shown	392.0	S	526463 183954	Air Shaft	1957
Not shown	392.0	S	526463 183954	Air Shaft	1940
Not shown	392.0	S	526463 183954	Air Shaft	1968
Not shown	395.0	S	526465 183953	Air Shaft	1920
Not shown	469.0	SE	526740 184111	Air Shaft	1968
Not shown	469.0	SE	526740 184111	Air Shaft	1973
Not shown	529.0	N	526419 184933	Tunnels	1957
Not shown	529.0	N	526419 184933	Tunnels	1989
Not shown	529.0	N	526419 184933	Tunnels	1968
Not shown	529.0	N	526419 184933	Tunnels	1973
Not shown	537.0	N	526842 185044	Tunnel	1866
Not shown	550.0	S	526440 183785	Air Shafts	1940
Not shown	568.0	N	526326 184952	Tunnels	1989
Not shown	568.0	N	526326 184952	Tunnels	1973
Not shown	569.0	N	526326 184952	Tunnels	1968
Not shown	569.0	N	526326 184952	Tunnels	1957
Not shown	615.0	S	526434 183717	Air Shafts	1940
Not shown	671.0	S	526434 183659	Air Shaft	1940

ID	Distance (m)	Direction	NGR	Use	Date
Not shown	675.0	N	526464 184994	Air Shaft	1973
Not shown	675.0	N	526464 184994	Air Shaft	1989
Not shown	677.0	N	526461 184996	Air Shaft	1940
Not shown	677.0	N	526461 184995	Air Shaft	1920
Not shown	684.0	E	526989 184174	Air Shaft	1940
Not shown	688.0	N	527029 185170	Tunnel	1995
Not shown	688.0	N	527029 185170	Tunnel	1974
Not shown	688.0	N	527029 185170	Tunnel	1965
Not shown	688.0	N	527029 185170	Tunnel	1958
Not shown	703.0	S	526471 183522	Tunnel	1968
Not shown	727.0	N	526647 185330	Tunnel	1995
Not shown	727.0	N	526647 185330	Tunnel	1974
Not shown	749.0	NE	527203 185151	Tunnel	1995
Not shown	749.0	NE	527203 185151	Tunnel	1974
Not shown	749.0	NE	527203 185151	Tunnel	1958
Not shown	749.0	NE	527203 185151	Tunnel	1965
Not shown	754.0	N	526240 185137	Tunnel	1958
Not shown	756.0	N	526647 185330	Tunnel	1965
Not shown	813.0	NE	526752 185021	Unspecified Shaft	1866
Not shown	833.0	NE	526706 185071	Air Shaft	1920
Not shown	869.0	E	527156 184083	Air Shaft	1968
Not shown	869.0	E	527156 184083	Air Shaft	1957
Not shown	869.0	E	527156 184083	Air Shaft	1989
Not shown	869.0	E	527156 184083	Air Shaft	1940
Not shown	869.0	E	527156 184083	Air Shaft	1973
Not shown	873.0	E	527162 184082	Air Shaft	1894
Not shown	991.0	N	526845 185427	Tunnel	1958

4.3 Current Ground Workings

This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

Are there any BGS Current Ground Workings within 1000m of the study site boundary? No

Database searched and no data found.
