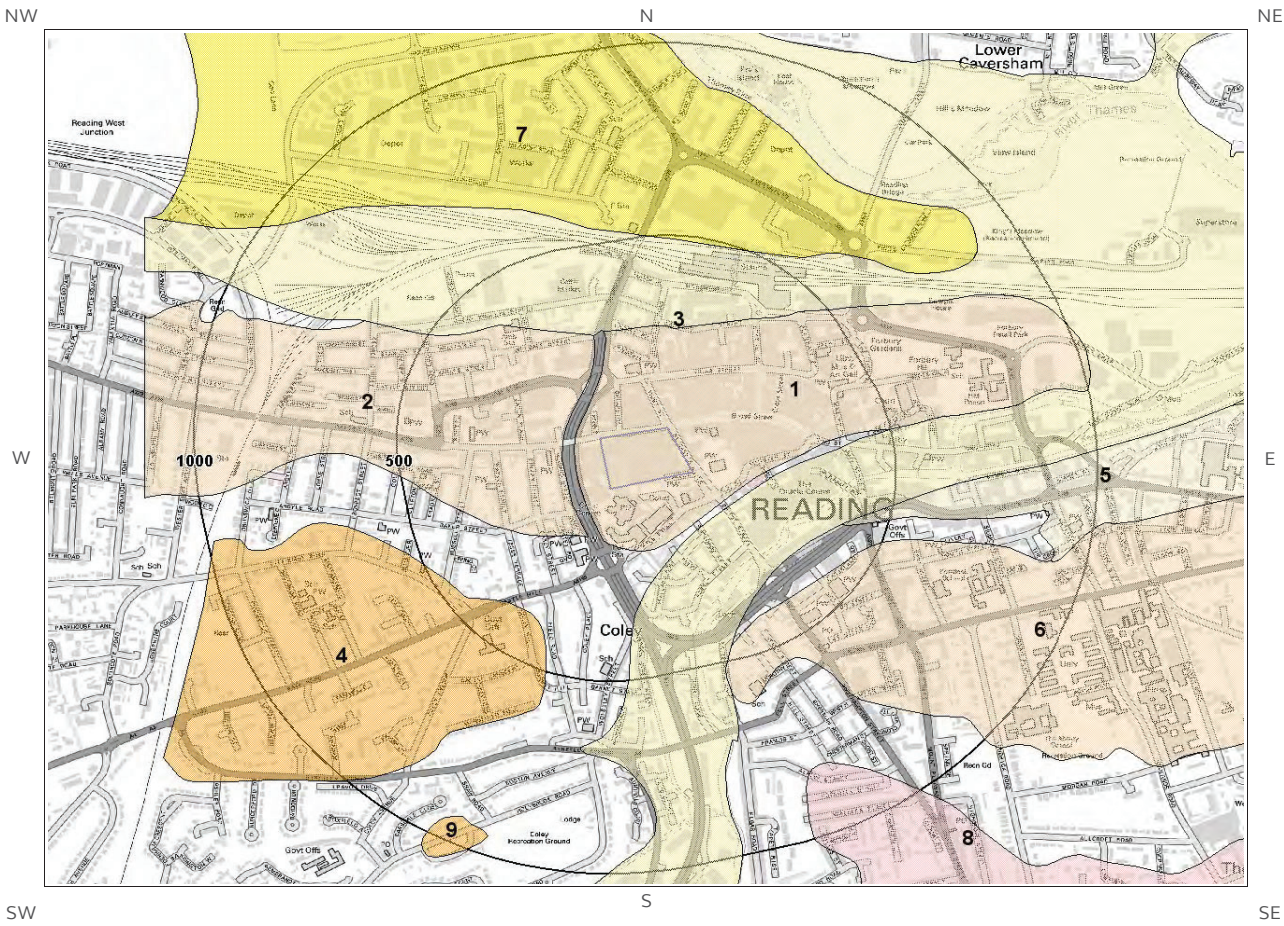


## 1.2 Superficial Deposits and Landslips map (1:10,000 scale)



Artificial Ground Legend

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Site Outline



Search Buffers (m)

## 1.2 Superficial Deposits and Landslips

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

### 1.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary at 1:10,000 scale?

Yes

| ID | Distance (m) | Direction | LEX Code | Description                                          | Rock Description |
|----|--------------|-----------|----------|------------------------------------------------------|------------------|
| 1  | 0.0          | On Site   | TPGR-XSV | Taplow Gravel Formation - Sand And Gravel            | Sand And Gravel  |
| 2  | 88.0         | W         | TPGR-XSV | Taplow Gravel Formation - Sand And Gravel            | Sand And Gravel  |
| 3  | 124.0        | SE        | ALV-Z    | Alluvium - Silt (unlithified Deposits Coding Scheme) | Silt             |
| 4  | 378.0        | SW        | LHGR-XSV | Lynch Hill Gravel Member - Sand And Gravel           | Sand And Gravel  |
| 5  | 389.0        | E         | KPGR-XSV | Kempton Park Gravel Formation - Sand And Gravel      | Sand And Gravel  |
| 6  | 405.0        | SE        | TPGR-XSV | Taplow Gravel Formation - Sand And Gravel            | Sand And Gravel  |
| 7  | 486.0        | N         | LASI-XCZ | Langley Silt Member - Clay And Silt                  | Clay And Silt    |

### 1.2.2 Landslip

Are there any records of Landslip within 500m of the study site boundary at 1:10,000 scale?

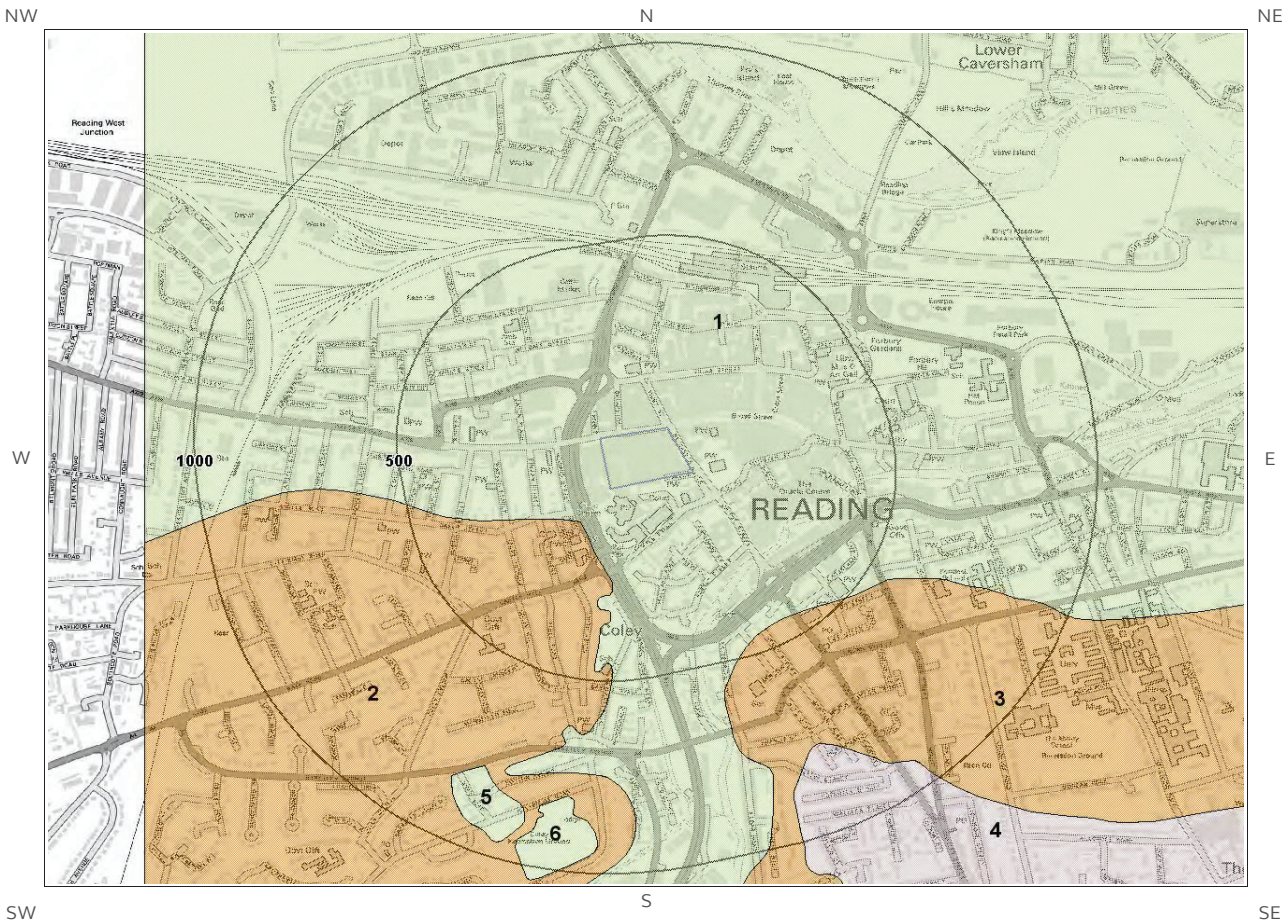
No

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 1:10,000 scale

This Geology shows the main components as discrete layers, these 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.

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



Bedrock and linear features Legend

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-  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   | LSNCK-CHLK  | Lewes Nodular Chalk Formation, Seaford Chalk Formation And Newhaven Chalk Formation (undifferentiated) - Chalk | Campanian Age - Turonian Age |
| 2  | 114.0        | SW        | LMBE-CLSISA | Lambeth Group - Clay, Silt And Sand                                                                            | Paleocene Epoch              |
| 3  | 440.0        | SE        | LMBE-CLSISA | Lambeth Group - Clay, Silt And Sand                                                                            | Paleocene 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

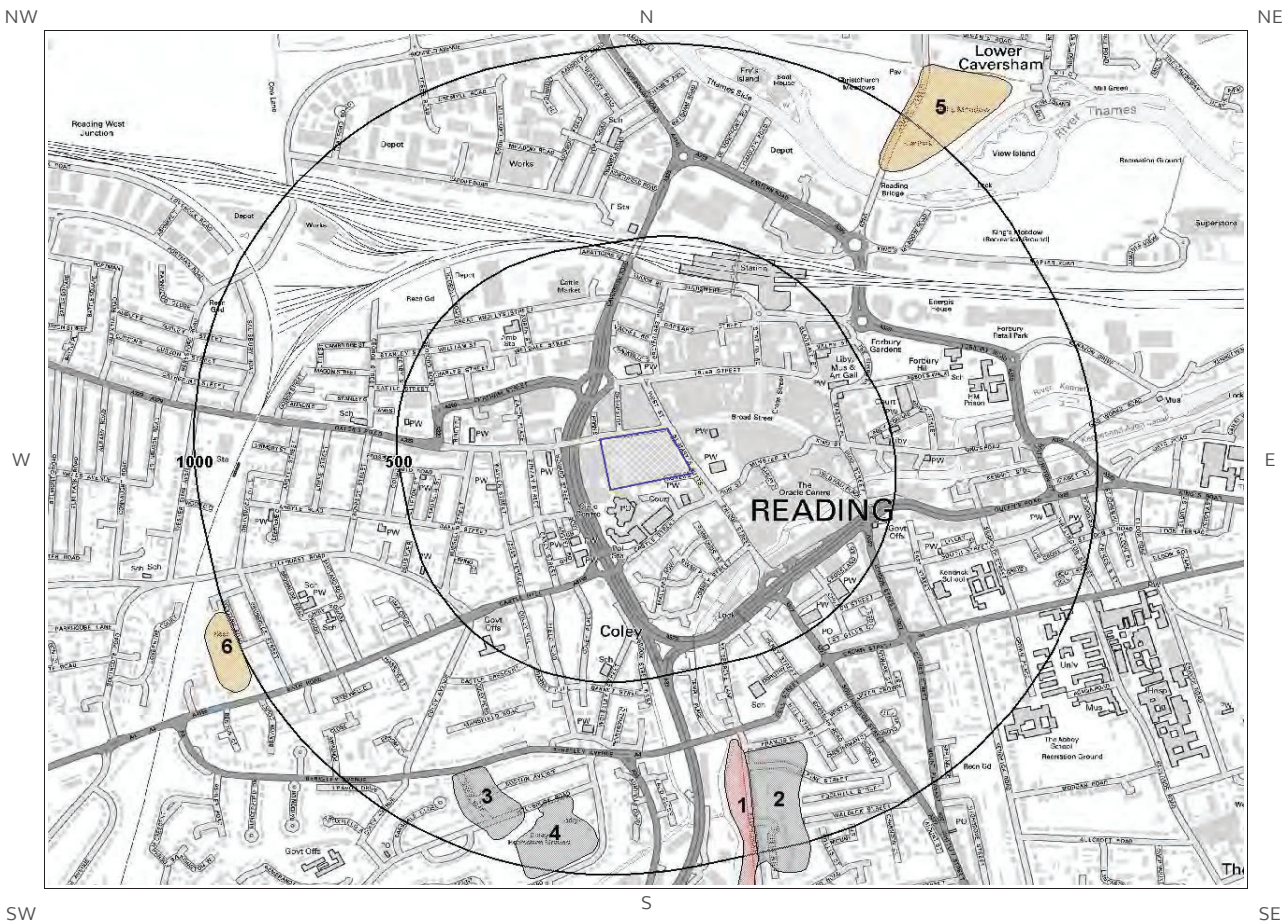
Database searched and no data found at this scale.

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



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# 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: 268

### 2.1.1 Artificial/ Made Ground

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

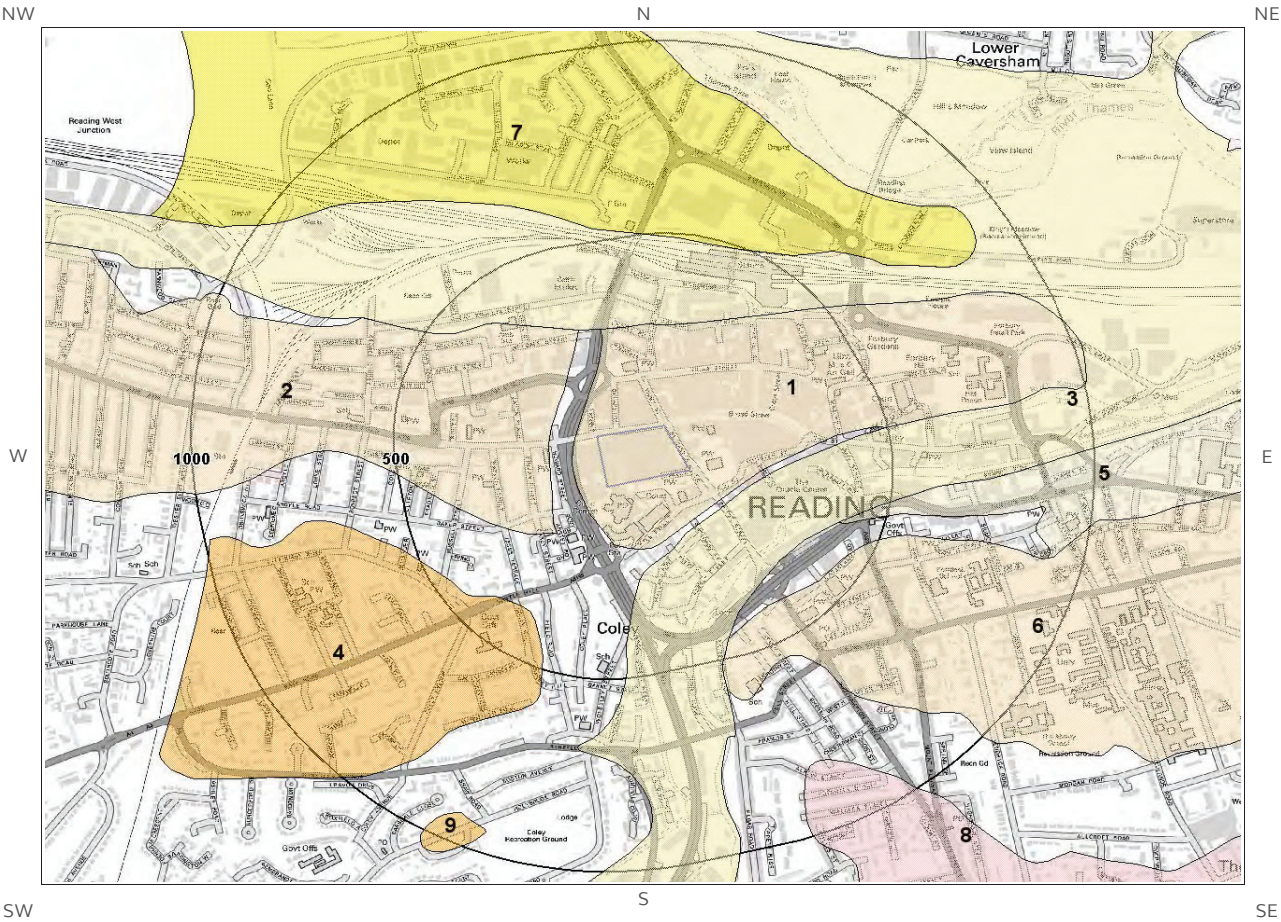
Database searched and no data found.

### 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)



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Site Outline



Search Buffers (m)

## 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? Yes

| ID | Distance | Direction | LEX Code  | Description                | Rock Description            |
|----|----------|-----------|-----------|----------------------------|-----------------------------|
| 1  | 0.0      | On Site   | TPGR-XSV  | TAPLOW GRAVEL MEMBER       | SAND AND GRAVEL             |
| 2  | 114.0    | W         | TPGR-XSV  | TAPLOW GRAVEL MEMBER       | SAND AND GRAVEL             |
| 3  | 125.0    | SE        | ALV-XCZSV | ALLUVIUM                   | CLAY, SILT, SAND AND GRAVEL |
| 4  | 375.0    | SW        | LHGR-XSV  | LYNCH HILL GRAVEL MEMBER   | SAND AND GRAVEL             |
| 5  | 390.0    | E         | KPGR-XSV  | KEMPTON PARK GRAVEL MEMBER | SAND AND GRAVEL             |
| 6  | 402.0    | SE        | TPGR-XSV  | TAPLOW GRAVEL MEMBER       | SAND AND GRAVEL             |
| 7  | 484.0    | N         | LASI-XCZ  | LANGLEY SILT MEMBER        | CLAY AND SILT               |

### 2.2.2 Permeability of Superficial Ground

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

| Distance (m) | Direction | Flow Type     | Maximum Permeability | Minimum Permeability |
|--------------|-----------|---------------|----------------------|----------------------|
| 0.0          | On Site   | Intergranular | Very High            | High                 |

### 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.

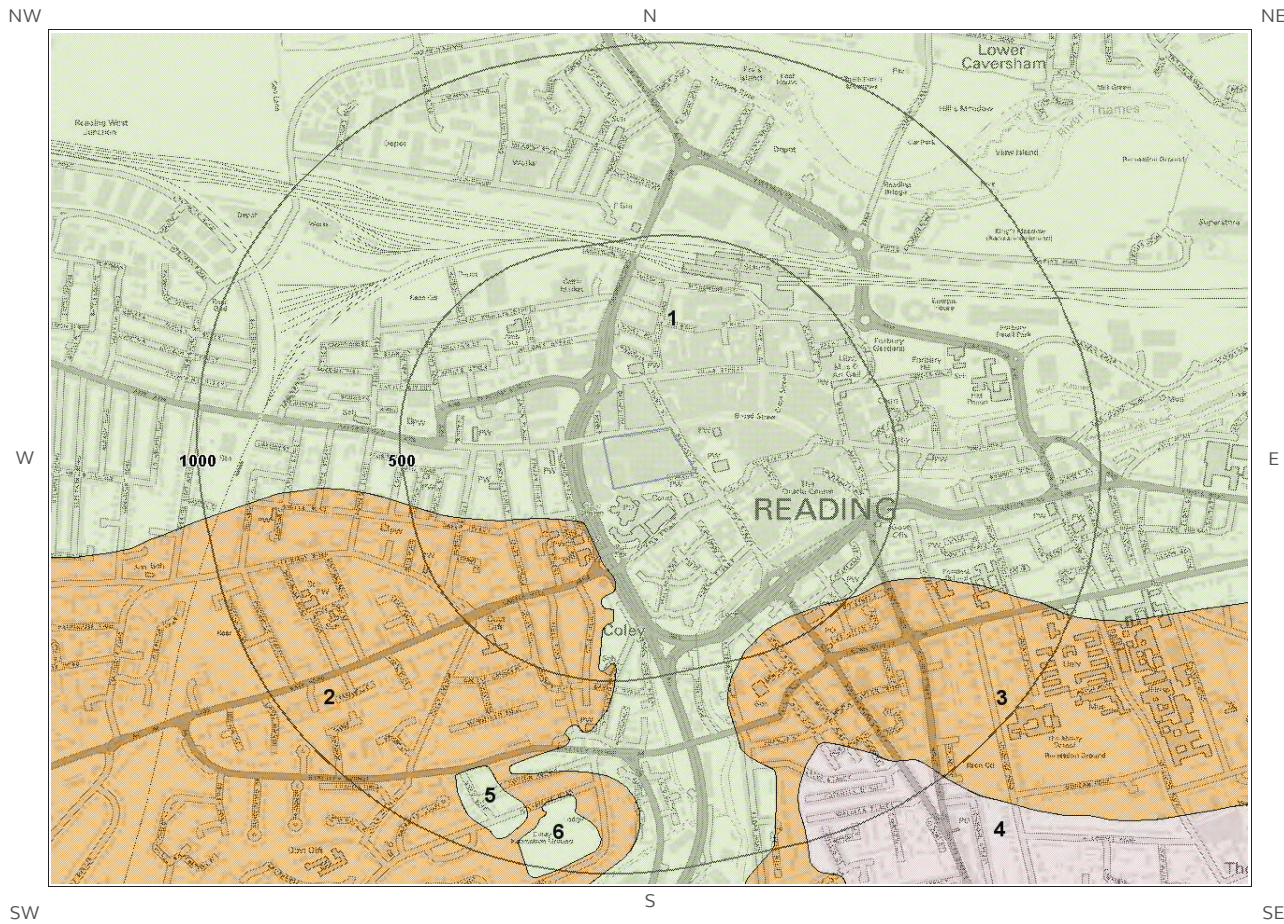
This Geology shows the main components as discrete layers, there are: Artificial/ Made Ground, Superficial/ Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

2.2.4 Landslip Permeability

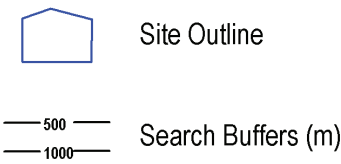
Are there any records relating to permeability of landslips within the study site boundary? No

Database searched and no data found.

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



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## 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: 268

### 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   | SNCK-CHLK | SEAFORD CHALK FORMATION AND NEWHAVEN CHALK FORMATION (UNDIFFERENTIATED) - CHALK | CONIACIAN |
| 2  | 116.0    | SW        | LMBE-XCZS | LAMBETH GROUP - CLAY, SILT AND SAND                                             | THANETIAN |
| 3  | 440.0    | SE        | LMBE-XCZS | LAMBETH GROUP - CLAY, SILT AND SAND                                             | THANETIAN |

### 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   | Fracture  | Very High            | Very High            |

### 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

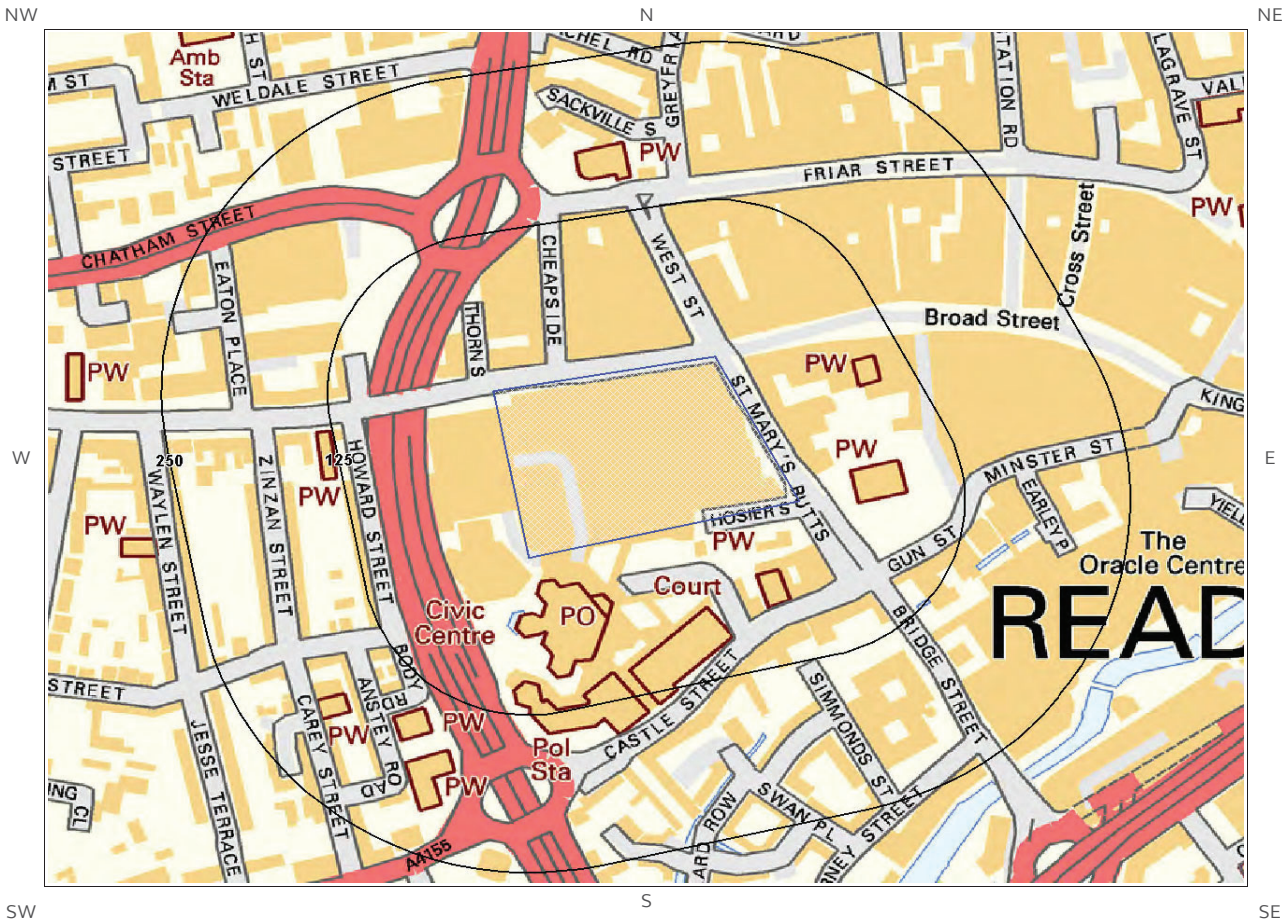
Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

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

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-  Site Outline
-  Historic Surface Ground Workings
-  Historic Underground Workings
-  Current Ground 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? No

Database searched and no data found.

### 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? Yes

The following Current Ground Workings information is provided by British Geological Survey:

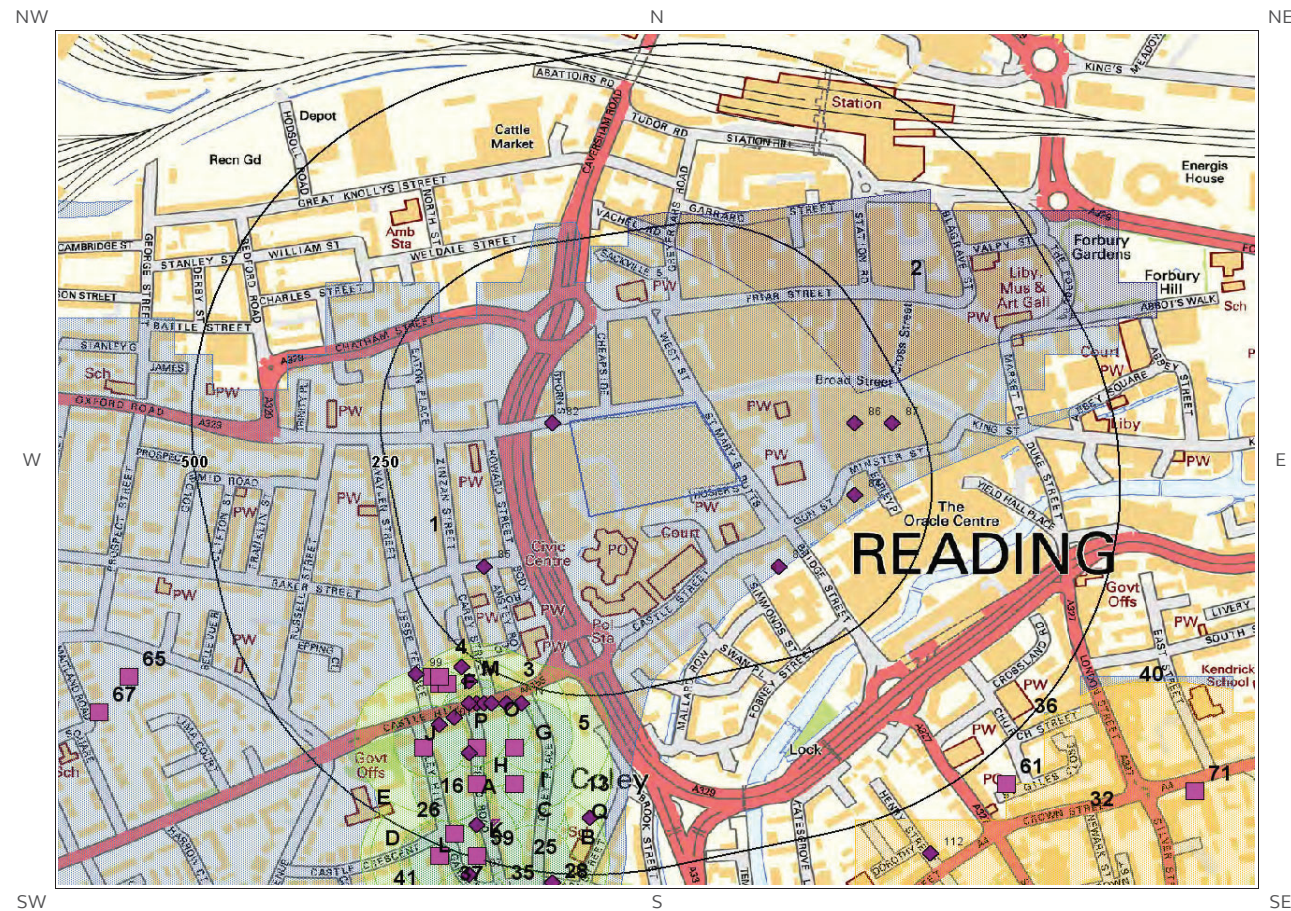
| ID        | Distance (m) | Direction | NGR           | Commodity Produced | Pit Name           | Type of working                                                                                                                                                        | Status |
|-----------|--------------|-----------|---------------|--------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Not shown | 314.0        | SW        | 471023 172986 | Chalk              | Reading Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 314.0        | SW        | 471002 172996 | Chalk              | Reading Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 316.0        | S         | 471076 172966 | Chalk              | Reading Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |

| ID        | Distance (m) | Direction | NGR           | Commodity Produced | Pit Name                  | Type of working                                                                                                                                                        | Status |
|-----------|--------------|-----------|---------------|--------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Not shown | 338.0        | SW        | 470991 172974 | Chalk              | Reading Chalk Mine        | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 351.0        | S         | 471021 172946 | Chalk              | Reading Chalk Mine        | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 366.0        | S         | 471079 172914 | Chalk              | Reading Chalk Mine        | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 378.0        | SW        | 470938 172960 | Chalk              | Reading Chalk Mine        | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 411.0        | SW        | 470981 172898 | Chalk              | Neuk & Bramley Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 413.0        | S         | 471067 172868 | Chalk              | Reading Chalk Mine        | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 418.0        | S         | 471017 172877 | Chalk              | Reading Chalk Mine        | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 418.0        | SW        | 470964 172898 | Chalk              | Reading Chalk Mine        | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 430.0        | SW        | 470968 172883 | Chalk              | Reading Chalk Mine        | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 442.0        | S         | 471070 172838 | Chalk              | Reading Chalk Mine        | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 470.0        | S         | 471002 172827 | Chalk              | Reading Chalk Mine        | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 470.0        | S         | 471021 172821 | Chalk              | Reading Chalk Mine        | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |

| ID        | Distance (m) | Direction | NGR           | Commodity Produced | Pit Name           | Type of working                                                                                                                                                        | Status |
|-----------|--------------|-----------|---------------|--------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Not shown | 471.0        | S         | 471066 172810 | Chalk              | Reading Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 478.0        | S         | 470978 172827 | Chalk              | Reading Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 484.0        | S         | 471030 172804 | Chalk              | Reading Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 487.0        | S         | 471074 172792 | Chalk              | Reading Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 495.0        | S         | 471010 172798 | Chalk              | Reading Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 503.0        | S         | 471033 172784 | Chalk              | Reading Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 512.0        | S         | 470959 172798 | Chalk              | Reading Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 518.0        | SW        | 470946 172797 | Chalk              | Reading Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 527.0        | S         | 471018 172763 | Chalk              | Reading Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 549.0        | S         | 471053 172733 | Chalk              | Reading Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 551.0        | S         | 471031 172735 | Chalk              | Reading Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 556.0        | S         | 470985 172742 | Chalk              | Reading Chalk Mine | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |

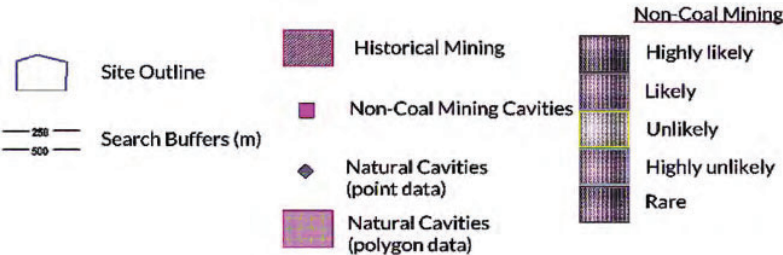
| ID        | Distance (m) | Direction | NGR           | Commodity Produced | Pit Name               | Type of working                                                                                                                                                        | Status |
|-----------|--------------|-----------|---------------|--------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Not shown | 561.0        | S         | 471077 172717 | Chalk              | Reading Chalk Mine     | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 563.0        | S         | 470992 172733 | Chalk              | Reading Chalk Mine     | Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) | Ceased |
| Not shown | 581.0        | SW        | 470915 172741 | Gravel             | Coley Gravel Pit       | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site                                                                           | Ceased |
| Not shown | 588.0        | S         | 470957 172717 | Gravel             | Coley Gravel Pit       | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site                                                                           | Ceased |
| Not shown | 602.0        | S         | 471044 172680 | Clay & Shale       | Coley Pottery          | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site                                                                           | Ceased |
| Not shown | 752.0        | S         | 471540 172590 | Clay & Shale       | Katesgrove Kilns       | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site                                                                           | Ceased |
| Not shown | 826.0        | S         | 471058 172452 | Clay & Shale       | Coley Kilns            | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site                                                                           | Ceased |
| Not shown | 838.0        | SW        | 470815 172505 | Clay & Shale       | Avenue Works           | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site                                                                           | Ceased |
| Not shown | 847.0        | S         | 471551 172495 | Clay & Shale       | Katesgrove Kilns       | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site                                                                           | Ceased |
| Not shown | 879.0        | S         | 470881 172436 | Clay & Shale       | Avenue Works           | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site                                                                           | Ceased |
| Not shown | 915.0        | S         | 471060 172362 | Clay & Shale       | Coley Kilns            | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site                                                                           | Ceased |
| Not shown | 922.0        | S         | 471549 172417 | Clay & Shale       | Katesgrove Kilns       | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site                                                                           | Ceased |
| Not shown | 924.0        | SE        | 471778 172498 | Clay & Shale       | Ivy Bridge Brick Field | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site                                                                           | Ceased |
| Not shown | 928.0        | S         | 471686 172452 | Clay & Shale       | Ivy Bridge Brick Field | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site                                                                           | Ceased |
| Not shown | 958.0        | S         | 471046 172321 | Clay & Shale       | Coley Kilns            | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site                                                                           | Ceased |
| Not shown | 959.0        | S         | 470975 172330 | Clay & Shale       | Coley Kilns            | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site                                                                           | Ceased |
| Not shown | 973.0        | SW        | 470502 172547 | Gravel             | Coley Park Gravel Pit  | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site                                                                           | Ceased |

## 5 Mining, Extraction & Natural Cavities map



Mining, Extraction and Natural Cavities Legend

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# 5 Mining, Extraction & Natural Cavities

## 5.1 Historical Mining

This dataset is derived from Groundsure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

## 5.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

## 5.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary? Yes

The following information provided by JPB is not represented on mapping: Whilst outside of an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property. Further details and a quote for services can be obtained by emailing this report to enquiries.gs@jpb.co.uk.

## 5.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary? Yes

The following non-coal mining information is provided by the BGS:

| ID | Distance (m) | Direction | Name          | Commodity | Assessment of likelihood                                                                                                                                                             |
|----|--------------|-----------|---------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 0.0          | On Site   | Not available | Chalk     | Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered |

| ID  | Distance (m) | Direction | Name          | Commodity | Assessment of likelihood                                                                                                                                                                                                        |
|-----|--------------|-----------|---------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2   | 172.0        | NE        | Not available | Chalk     | Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered                                   |
| 3   | 213.0        | SW        | Not available | Chalk     | Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered                                         |
| 4   | 214.0        | SW        | Not available | Chalk     | Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered                                         |
| 5   | 215.0        | S         | Not available | Chalk     | Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered                                         |
| 6M  | 238.0        | SW        | Not available | Chalk     | Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered                                         |
| 7O  | 263.0        | SW        | Not available | Chalk     | Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered |
| 8F  | 264.0        | SW        | Not available | Chalk     | Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered |
| 9G  | 265.0        | S         | Not available | Chalk     | Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered |
| 10  | 277.0        | SW        | Not available | Chalk     | Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered                                         |
| 11P | 288.0        | SW        | Not available | Chalk     | Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered |
| 12J | 327.0        | SW        | Not available | Chalk     | Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered |
| 13  | 328.0        | S         | Not available | Chalk     | Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered                                         |
| 14I | 331.0        | S         | Not available | Chalk     | Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered |
| 15H | 354.0        | S         | Not available | Chalk     | Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered |
| 16  | 376.0        | SW        | Not available | Chalk     | Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered |
| 17A | 391.0        | S         | Not available | Chalk     | Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered |
| 18A | 393.0        | S         | Not available | Chalk     | Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered |

| ID        | Distance (m) | Direction | Name          | Commodity | Assessment of likelihood                                                                                                                                                                                                        |
|-----------|--------------|-----------|---------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 36        | 509.0        | SE        | Not available | Chalk     | Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered                                            |
| 37        | 512.0        | S         | Not available | Chalk     | Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered |
| Not shown | 516.0        | S         | Not available | Chalk     | Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered                                         |
| Not shown | 519.0        | S         | Not available | Chalk     | Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered |
| 40        | 522.0        | SE        | Not available | Chalk     | Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered                                            |
| 41        | 556.0        | SW        | Not available | Chalk     | Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered                                         |
| Not shown | 564.0        | S         | Not available | Chalk     | Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered |
| Not shown | 593.0        | S         | Not available | Chalk     | Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered |
| Not shown | 615.0        | SW        | Not available | Chalk     | Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered                                         |
| Not shown | 698.0        | S         | Not available | Chalk     | Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered                                            |
| Not shown | 834.0        | E         | Not available | Chalk     | Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered                                            |
| Not shown | 898.0        | NW        | Not available | Chalk     | Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered                                   |
| Not shown | 982.0        | E         | Not available | Chalk     | Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered                                            |

5.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled “Review of mining instability in Great Britain, 1990” PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? Yes

The following Non-Coal Mining Cavities information provided by Peter Brett Associates:

| ID        | Distance (m) | Direction | NGR           | Address                                      | Superficial Deposits | Bedrock Deposits                     | Extracted Mineral |
|-----------|--------------|-----------|---------------|----------------------------------------------|----------------------|--------------------------------------|-------------------|
| 49F       | 299.0        | SW        | 470950 173050 | Reading (Coley), Berkshire                   | -                    | Lambeth Group, Upper Chalk Formation | Chalk             |
| 50F       | 300.0        | SW        | 470960 173040 | Reading (Coley), Berkshire                   | -                    | Lambeth Group, Upper Chalk Formation | Chalk             |
| 51F       | 306.0        | SW        | 470940 173050 | Reading (Coley), Berkshire                   | -                    | Lambeth Group, Upper Chalk Formation | Chalk             |
| 52F       | 307.0        | SW        | 470950 173040 | Reading (Coley), Berkshire                   | -                    | Lambeth Group, Upper Chalk Formation | Chalk             |
| 53G       | 338.0        | S         | 471050 172950 | Reading (Coley), Berkshire                   | -                    | Lambeth Group, Upper Chalk Formation | Chalk             |
| 54H       | 356.0        | SW        | 471000 172950 | Reading (Coley), Berkshire                   | Lynch Hill Gravel    | Lambeth Group, Upper Chalk Formation | Chalk             |
| 55I       | 386.0        | S         | 471050 172900 | Reading (Coley), Berkshire                   | -                    | Lambeth Group, Upper Chalk Formation | Chalk             |
| 56J       | 390.0        | SW        | 470930 172950 | Reading (Coley), Berkshire                   | Lynch Hill Gravels   | Lambeth Group, Upper Chalk Formation | Chalk             |
| 57H       | 402.0        | S         | 471000 172900 | Reading (Coley), Berkshire                   | Lynch Hill Gravel    | Lambeth Group, Upper Chalk Formation | Chalk             |
| 58K       | 478.0        | S         | 470970 172830 | Reading (Coley), Berkshire                   | Lynch Hill Gravel    | Lambeth Group, Upper Chalk Formation | Chalk             |
| 59        | 496.0        | S         | 471000 172800 | Castle Hill Kiln, Reading (Coley), Berkshire | Lynch Hill Gravel    | Lambeth Group, Upper Chalk Formation | Chalk             |
| 60L       | 513.0        | SW        | 470950 172800 | Reading (Coley), Berkshire                   | Lynch Hill Gravel    | Lambeth Group, Upper Chalk Formation | Chalk             |
| 61        | 544.0        | SE        | 471700 172900 | Reading, Berkshire                           | Taplow Gravel        | Lambeth Group, Upper Chalk Formation | Chalk             |
| Not shown | 559.0        | S         | 470980 172740 | Reading (Coley), Berkshire                   | -                    | Lambeth Group, Upper Chalk Formation | Chalk             |
| Not shown | 566.0        | S         | 471030 172720 | Reading (Coley), Berkshire                   | -                    | Lambeth Group, Upper Chalk Formation | Chalk             |
| Not shown | 575.0        | S         | 471100 172700 | Coley Potteries, Reading (Coley), Berkshire  | -                    | Lambeth Group, Upper Chalk Formation | Chalk             |
| 65        | 649.0        | W         | 470540 173050 | Reading, Berkshire                           | Lynch Hill Gravel    | Lambeth Group, Chalk Group           | Chalk             |
| Not shown | 684.0        | S         | 471500 172650 | Katesgrove Kilns (1), Reading, Berkshire     | Worked Ground        | Lambeth Group, Upper Chalk Formation | Chalk             |
| 67        | 704.0        | SW        | 470500 173000 | Reading (West), Berkshire                    | Lynch Hill Gravel    | Lambeth Group, Upper Chalk Formation | Chalk             |
| Not shown | 709.0        | SE        | 471700 172700 | Shearmans Brick Kiln, Reading, Berkshire     | -                    | Lambeth Group, Upper Chalk Formation | Chalk             |

| ID        | Distance (m) | Direction | NGR           | Address                                                     | Superficial Deposits | Bedrock Deposits                                  | Extracted Mineral |
|-----------|--------------|-----------|---------------|-------------------------------------------------------------|----------------------|---------------------------------------------------|-------------------|
| Not shown | 717.0        | SE        | 471790 172750 | Reading, Berkshire                                          | -                    | Lambeth Group, Upper Chalk Formation              | Chalk             |
| Not shown | 733.0        | S         | 471500 172600 | Katesgrove Kilns (2), Reading, Berkshire                    | Worked Ground        | Lambeth Group, Upper Chalk Formation              | Chalk             |
| 71        | 735.0        | SE        | 471950 172890 | Jubilee Square, Reading, Berkshire                          | Taplow Gravel        | Chalk Group                                       | Chalk             |
| Not shown | 753.0        | SE        | 471700 172650 | Shearmans Brick Kiln, Reading, Berkshire                    | -                    | Lambeth Group, Upper Chalk Formation              | Chalk             |
| Not shown | 826.0        | SE        | 471900 172700 | The Old Orchard Kiln, Reading, Berkshire                    | -                    | Lambeth Group, Upper Chalk Formation              | Chalk             |
| Not shown | 838.0        | W         | 470350 173020 | Reading (West), Berkshire                                   | Lynch Hill Gravel    | Lambeth Group, Upper Chalk Formation              | Chalk             |
| Not shown | 847.0        | W         | 470300 173200 | Coopers Brick & Lime Manufactory, Reading (West), Berkshire | Lynch Hill Gravel    | Lambeth Group, Upper Chalk Formation              | Chalk             |
| Not shown | 875.0        | E         | 472200 173100 | Reading, Berkshire                                          | Taplow Gravel        | Chalk Group                                       | Chalk             |
| Not shown | 886.0        | S         | 471000 172400 | Wheeler Works, Reading (Coley), Berkshire                   | Worked Ground        | Lambeth Group, Upper Chalk Formation              | Chalk             |
| Not shown | 889.0        | SE        | 471700 172500 | Ivy Lodge Brickfield/ Southampton Kiln, Reading, Berkshire  | Boyn Hill Gravel     | London Clay, Lambeth Group, Upper Chalk Formation | Chalk             |
| Not shown | 890.0        | S         | 471550 172450 | Katesgrove Kilns (3), Reading, Berkshire                    | Worked Ground        | Lambeth Group, Upper Chalk Formation              | Chalk             |
| Not shown | 915.0        | SW        | 470750 172450 | Avenue Works, Reading (Coley), Berkshire                    | Worked Ground        | Lambeth Group, Upper Chalk Formation              | Chalk             |
| Not shown | 958.0        | SE        | 471850 172500 | The Upper Kiln, Reading, Berkshire                          | -                    | London Clay, Lambeth Group, Upper Chalk Formation | Chalk             |

5.6 Natural Cavities

This dataset provides information based on the Peter Brett Associates natural cavities database. The dataset is made up of points and polygons. Where polygons are used these represent an area in which it is expected the cavities could be found. It does not indicate that cavities are present everywhere within the polygon, and caution should be used in the interpretation of this data.

Are there any Natural Cavities within 1000m of the study site boundary? Yes

The following Natural Cavities information provided by Peter Brett Associates:

| ID | Distance (m) | Direction | NGR           | Superficial Deposits | Bedrock Deposits | Cavity Type and Number |
|----|--------------|-----------|---------------|----------------------|------------------|------------------------|
| 82 | 23.0         | W         | 471100 173400 | Taplow Gravel        | Chalk Group      | Solution Pipe x 3      |
| 83 | 127.0        | S         | 471400 173200 | Taplow Gravel        | Chalk Group      | Solution Pipe x 2      |
| 84 | 149.0        | E         | 471500 173300 | Taplow Gravel        | Chalk Group      | Solution Pipe x 1      |

| ID        | Distance (m) | Direction | NGR              | Superficial Deposits | Bedrock Deposits           | Cavity Type and Number                |
|-----------|--------------|-----------|------------------|----------------------|----------------------------|---------------------------------------|
| 85        | 157.0        | SW        | 471010<br>173200 | -                    | Chalk Group, Lambeth Group | Solution Widened Joint or Fissure x 3 |
| 86        | 169.0        | NE        | 471500<br>173400 | Taplow Gravel        | Chalk Group                | Solution Pipe x 3                     |
| 87        | 214.0        | NE        | 471550<br>173400 | Taplow Gravel        | Chalk Group                | Solution Pipe x 5                     |
| 88M       | 272.0        | SW        | 470980<br>173060 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1                     |
| 89N       | 278.0        | S         | 471060<br>173010 | -                    | Chalk Group, Lambeth Group | Solution Widened Joint or Fissure x 1 |
| 90        | 282.0        | SW        | 470990<br>173040 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1                     |
| 91N       | 285.0        | SW        | 471040<br>173010 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1                     |
| 92O       | 293.0        | SW        | 471020<br>173010 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1                     |
| 93P       | 298.0        | SW        | 471010<br>173010 | -                    | Chalk Group, Lambeth Group | Solution Widened Joint or Fissure x 1 |
| 94O       | 298.0        | SW        | 471010<br>173010 | -                    | Chalk Group, Lambeth Group | Solution Widened Joint or Fissure x 1 |
| 95O       | 303.0        | SW        | 471000<br>173010 | -                    | Chalk Group, Lambeth Group | Solution Widened Joint or Fissure x 1 |
| 96O       | 303.0        | SW        | 471000<br>173010 | -                    | Chalk Group, Lambeth Group | Solution Widened Joint or Fissure x 1 |
| 97O       | 303.0        | SW        | 471000<br>173010 | -                    | Chalk Group, Lambeth Group | Solution Widened Joint or Fissure x 1 |
| 98P       | 308.0        | SW        | 470990<br>173010 | -                    | Chalk Group, Lambeth Group | Solution Widened Joint or Fissure x 1 |
| 99        | 320.0        | SW        | 470920<br>173050 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1                     |
| 100P      | 335.0        | SW        | 470970<br>172990 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1                     |
| 101       | 354.0        | SW        | 470950<br>172980 | Lynch Hill Gravel    | Chalk Group, Lambeth Group | Solution Pipe x 2                     |
| 102H      | 369.0        | SW        | 470990<br>172940 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1                     |
| 103Q      | 423.0        | S         | 471150<br>172850 | -                    | Chalk Group                | Solution Widened Joint or Fissure x 1 |
| 104K      | 440.0        | S         | 471022<br>172845 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 3                     |
| 105K      | 458.0        | S         | 471000<br>172840 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1                     |
| 106       | 515.0        | S         | 471100<br>172760 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1                     |
| 107       | 528.0        | S         | 470990<br>172770 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1                     |
| Not shown | 543.0        | S         | 471140<br>172730 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1                     |
| Not shown | 543.0        | S         | 471130<br>172730 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1                     |
| Not shown | 544.0        | S         | 471000<br>172750 | Lynch Hill Gravel    | Chalk Group, Lambeth Group | Solution Pipe x 1                     |

| ID        | Distance (m) | Direction | NGR              | Superficial Deposits | Bedrock Deposits           | Cavity Type and Number |
|-----------|--------------|-----------|------------------|----------------------|----------------------------|------------------------|
| Not shown | 573.0        | S         | 471000<br>172720 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1      |
| 112       | 574.0        | SE        | 471600<br>172800 | -                    | Chalk Group, Lambeth Group | Unknown                |
| Not shown | 613.0        | S         | 471040<br>172670 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1      |
| Not shown | 633.0        | S         | 471040<br>172650 | -                    | Chalk Group                | Solution Pipe x 1      |
| Not shown | 642.0        | S         | 471040<br>172640 | -                    | Chalk Group                | Solution Pipe x 1      |
| Not shown | 646.0        | S         | 471020<br>172640 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1      |
| Not shown | 654.0        | S         | 471030<br>172630 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1      |
| Not shown | 820.0        | W         | 470380<br>172990 | Lynch Hill Gravel    | Chalk Group, Lambeth Group | Solution Pipe x 1      |
| Not shown | 826.0        | W         | 470370<br>173000 | Lynch Hill Gravel    | Chalk Group, Lambeth Group | Solution Pipe x 2      |
| Not shown | 880.0        | SW        | 470490<br>172690 | Lynch Hill Gravel    | Chalk Group, Lambeth Group | Solution Pipe x 1      |
| Not shown | 904.0        | W         | 470250<br>173160 | -                    | Chalk Group, Lambeth Group | Solution Pipe x 1      |
| Not shown | 914.0        | W         | 470240<br>173160 | Lynch Hill Gravel    | Chalk Group, Lambeth Group | Solution Pipe x 1      |
| Not shown | 916.0        | W         | 470240<br>173150 | Lynch Hill Gravel    | Chalk Group, Lambeth Group | Solution Pipe x 1      |

### 5.7 Brine Extraction

This data provides information from the Coal Authority issued on behalf of the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary?No

Database searched and no data found.

### 5.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary?No

Database searched and no data found.

5.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level..

Are there any Tin Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

5.10 Clay Mining

This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

Are there any Clay Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

6 Natural Ground Subsidence  
6.1 Shrink-Swell Clay map

