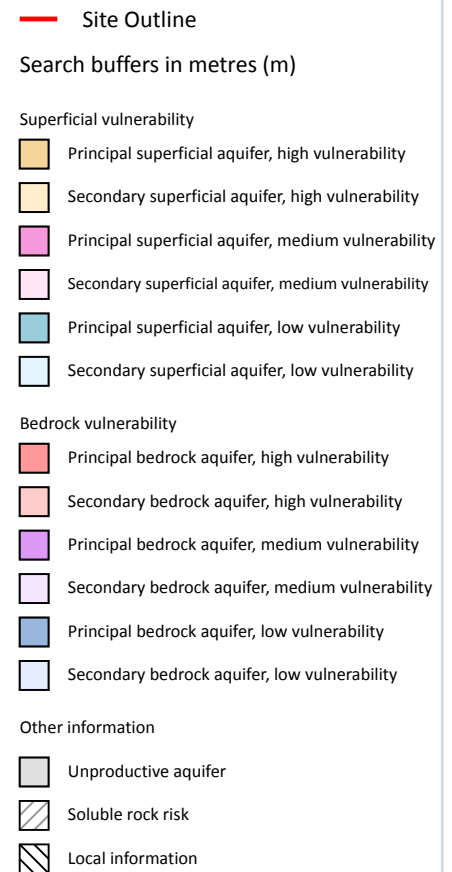
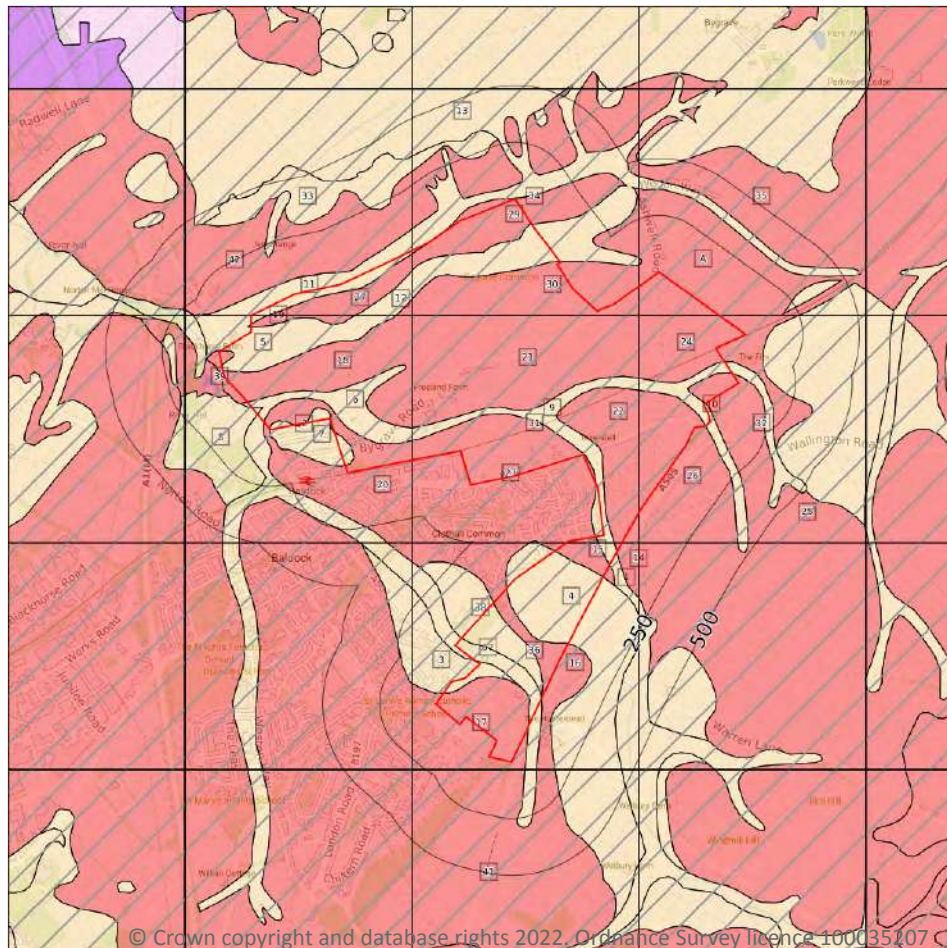


Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

35

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

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

Features are displayed on the Groundwater vulnerability map on **page 65**



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
7	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
8	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
9	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
10	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
11	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
12	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
13	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
14	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
15	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
16	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
17	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
18	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
19	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
20	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
21	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
22	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
23	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
24	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
25	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
26	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
27	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
28	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
29	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
30	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
37	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
38	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
A	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
39	4m W	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
41	34m S	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
42	34m NW	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40- 70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	7
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This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
2	Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.	48.0%
31	Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.	8.0%
32	Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.	39.0%
33	Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.	61.0%
34	Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.	40.0%
35	Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.	35.0%
36	Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.	63.0%

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



5.5 Groundwater vulnerability- local information

Records on site

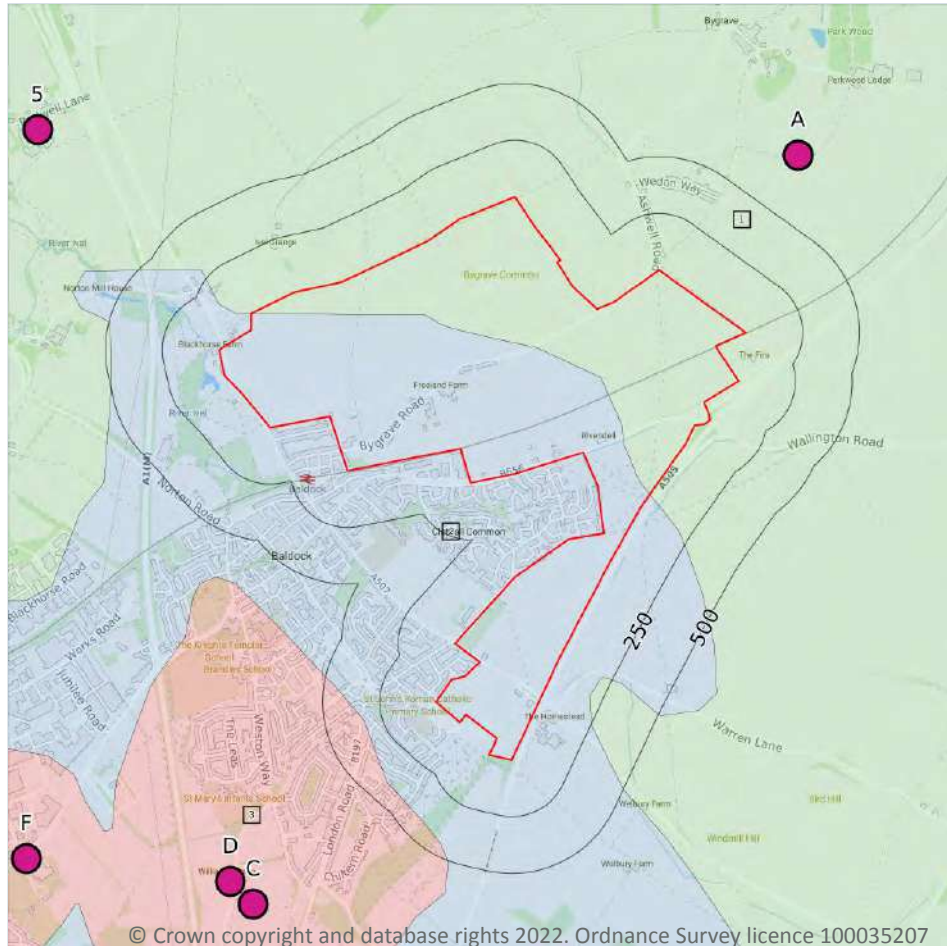
0

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

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



Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)**
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Point features
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

13

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 73**



ID	Location	Details	
A	769m NE	Status: Historical Licence No: 6/33/14/*G/0004 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT BYGRAVE Data Type: Point Name: D NORTHERN & SONS Easting: 526700 Northing: 235700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/12/1966 Expiry Date: - Issue No: 101 Version Start Date: 24/02/2000 Version End Date: -
A	769m NE	Status: Historical Licence No: 6/33/14/*G/0004 Details: Spray Irrigation - Storage Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT BYGRAVE Data Type: Point Name: D NORTHERN & SONS Easting: 526700 Northing: 235700	Annual Volume (m ³): 5000 Max Daily Volume (m ³): 20 Original Application No: - Original Start Date: 01/12/1966 Expiry Date: - Issue No: 102 Version Start Date: 13/03/2003 Version End Date: -
-	1057m N	Status: Historical Licence No: 6/33/14/*G/0064 Details: Transfer between sources Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT NEWNHAM Data Type: Point Name: A E & W A FARR LTD Easting: 525610 Northing: 236560	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/05/1993 Expiry Date: 01/09/2002 Issue No: 100 Version Start Date: 01/05/1993 Version End Date: -
-	1057m N	Status: Historical Licence No: 6/33/14/*G/0071 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT NEWNHAM Data Type: Point Name: A E & W A FARR LTD Easting: 525610 Northing: 236560	Annual Volume (m ³): 91000 Max Daily Volume (m ³): 1841 Original Application No: - Original Start Date: 09/10/2003 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 09/10/2003 Version End Date: -
-	1057m N	Status: Historical Licence No: 6/33/14/*G/0071/R01 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT NEWNHAM Data Type: Point Name: A E & W A FARR LTD Easting: 525610 Northing: 236560	Annual Volume (m ³): 91000 Max Daily Volume (m ³): 1841 Original Application No: - Original Start Date: 01/04/2016 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -



ID	Location	Details	
-	1057m N	Status: Active Licence No: 6/33/14/*G/0071/R02 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT NEWNHAM Data Type: Point Name: A E & W A FARR LTD Easting: 525610 Northing: 236560	Annual Volume (m ³): 91,000 Max Daily Volume (m ³): 1,841 Original Application No: NPS/WR/023401 Original Start Date: 01/04/2018 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
C	1201m SW	Status: Active Licence No: 6/33/14/*G/0010 Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: FULLER, LETCHWORTH Data Type: Point Name: Affinity Water Limited Easting: 524300 Northing: 232400	Annual Volume (m ³): 5,391,674 Max Daily Volume (m ³): 20,457 Original Application No: NPS/WR/011805 Original Start Date: 01/11/1966 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -
D	1203m SW	Status: Active Licence No: 6/33/14/*G/0010 Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOWRING, LETCHWORTH Data Type: Point Name: Affinity Water Limited Easting: 524200 Northing: 232500	Annual Volume (m ³): 5,391,674 Max Daily Volume (m ³): 20,457 Original Application No: NPS/WR/011805 Original Start Date: 01/11/1966 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -
5	1241m NW	Status: Historical Licence No: 6/33/14/*G/0035 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT RADWELL Data Type: Point Name: D NORTHERN & SONS Easting: 523350 Northing: 235810	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/01/1968 Expiry Date: - Issue No: 100 Version Start Date: 01/01/1968 Version End Date: -
-	1528m NW	Status: Active Licence No: 6/33/14/*G/0026 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL W OF RADWELL Data Type: Point Name: MEREDITH HARDY FARM PARTNERSHIP Easting: 522860 Northing: 235660	Annual Volume (m ³): 4,591 Max Daily Volume (m ³): 111.60 Original Application No: - Original Start Date: 01/04/1968 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1997 Version End Date: -



ID	Location	Details	
-	1528m NW	Status: Active Licence No: 6/33/14/*G/0026 Details: Spray Irrigation - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL W OF RADWELL Data Type: Point Name: MEREDITH HARDY FARM PARTNERSHIP Easting: 522860 Northing: 235660	Annual Volume (m ³): 4,591 Max Daily Volume (m ³): 111.60 Original Application No: - Original Start Date: 01/04/1968 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1997 Version End Date: -
-	1631m E	Status: Historical Licence No: 6/33/14/*G/0070 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT WALLINGTON Data Type: Point Name: WALLINGTON FARMS Easting: 528100 Northing: 235000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/03/1998 Expiry Date: - Issue No: 100 Version Start Date: 01/03/1998 Version End Date: -
F	1934m W	Status: Active Licence No: 6/33/14/*G/0010 Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BALDOCK ROAD, LETCHWORTH Data Type: Point Name: Affinity Water Limited Easting: 523300 Northing: 232600	Annual Volume (m ³): 5,391,674 Max Daily Volume (m ³): 20,457 Original Application No: NPS/WR/011805 Original Start Date: 01/11/1966 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

7

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 73**



ID	Location	Details	
-	1114m N	Status: Historical Licence No: 6/33/14/*S/0065 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: UN-NAMED DRAIN - NEWNHAM 'A' Data Type: Point Name: A E & W A FARR LTD Easting: 525200 Northing: 236600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/05/1993 Expiry Date: 30/09/2002 Issue No: 100 Version Start Date: 01/05/1993 Version End Date: -
-	1429m NW	Status: Active Licence No: 6/33/14/*S/0027 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER IVEL AT RADWELL Data Type: Point Name: MEREDITH HARDY FARM PARTNERSHIP Easting: 523000 Northing: 235690	Annual Volume (m ³): 1,091 Max Daily Volume (m ³): 98 Original Application No: - Original Start Date: 01/04/1968 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1436m N	Status: Historical Licence No: 6/33/14/*S/0065 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: UN-NAMED DRAIN - NEWNHAM 'B' Data Type: Point Name: A E & W A FARR LTD Easting: 524800 Northing: 236800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/05/1993 Expiry Date: 30/09/2002 Issue No: 100 Version Start Date: 01/05/1993 Version End Date: -
-	1566m N	Status: Historical Licence No: 6/33/14/*S/0065 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: UN-NAMED DRAIN - NEWNHAM 'C' Data Type: Point Name: A E & W A FARR LTD Easting: 524700 Northing: 236900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/05/1993 Expiry Date: 30/09/2002 Issue No: 100 Version Start Date: 01/05/1993 Version End Date: -
-	1571m NW	Status: Active Licence No: 6/33/14/*S/0027 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER IVEL AT RADWELL Data Type: Point Name: MEREDITH HARDY FARM PARTNERSHIP Easting: 522890 Northing: 235780	Annual Volume (m ³): 1,091 Max Daily Volume (m ³): 98 Original Application No: - Original Start Date: 01/04/1968 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -



ID	Location	Details	
-	1653m NW	Status: Active Licence No: 6/33/14/*S/0027 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: TRIB OF RIVER IVEL AT RADWELL Data Type: Point Name: MEREDITH HARDY FARM PARTNERSHIP Easting: 522880 Northing: 235900	Annual Volume (m ³): 1,091 Max Daily Volume (m ³): 98 Original Application No: - Original Start Date: 01/04/1968 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1757m NW	Status: Active Licence No: 6/33/14/*S/0027 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER IVEL AT RADWELL Data Type: Point Name: MEREDITH HARDY FARM PARTNERSHIP Easting: 522740 Northing: 235890	Annual Volume (m ³): 1,091 Max Daily Volume (m ³): 98 Original Application No: - Original Start Date: 01/04/1968 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

3

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 73**

ID	Location	Details	
C	1201m SW	Status: Active Licence No: 6/33/14/*G/0010 Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: FULLER, LETCHWORTH Data Type: Point Name: Affinity Water Limited Easting: 524300 Northing: 232400	Annual Volume (m ³): 5,391,674 Max Daily Volume (m ³): 20,457 Original Application No: NPS/WR/011805 Original Start Date: 01/11/1966 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -



ID	Location	Details	
D	1203m SW	Status: Active Licence No: 6/33/14/*G/0010 Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOWRING,LETCHWORTH Data Type: Point Name: Affinity Water Limited Easting: 524200 Northing: 232500	Annual Volume (m ³): 5,391,674 Max Daily Volume (m ³): 20,457 Original Application No: NPS/WR/011805 Original Start Date: 01/11/1966 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -
F	1934m W	Status: Active Licence No: 6/33/14/*G/0010 Details: Potable Water Supply - Direct Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BALDOCK ROAD,LETCHWORTH Data Type: Point Name: Affinity Water Limited Easting: 523300 Northing: 232600	Annual Volume (m ³): 5,391,674 Max Daily Volume (m ³): 20,457 Original Application No: NPS/WR/011805 Original Start Date: 01/11/1966 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	3
----------------------------	----------

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on **page 73**

ID	Location	Type	Description
1	On site	3	Total catchment
2	On site	2	Outer catchment
3	326m W	1	Inner catchment

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

5.10 Source Protection Zones (confined aquifer)

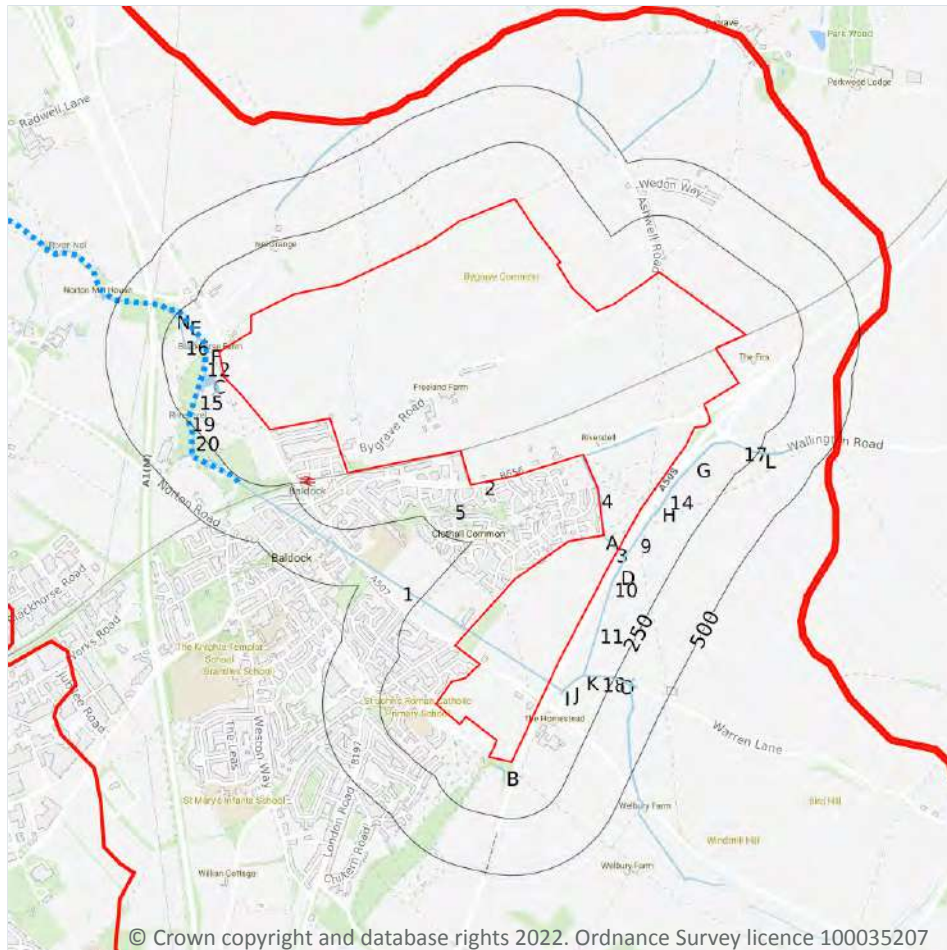
Records within 500m	0
----------------------------	----------

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

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



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

34

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

Features are displayed on the Hydrology map on **page 80**

ID	Location	Type of water feature	Ground level	Permanence	Name
1	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	35m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	41m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	43m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	43m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	43m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	45m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	47m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	River Ivel
F	47m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ivel
12	47m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ivel



ID	Location	Type of water feature	Ground level	Permanence	Name
G	57m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	59m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
14	61m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	69m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	70m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	71m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	79m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
15	81m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ivel
16	105m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ivel
F	106m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ivel
E	108m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ivel
K	125m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
17	126m SE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
K	130m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
18	134m SE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
19	223m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	River Ivel
L	228m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
20	234m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ivel
N	241m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ivel
O	249m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

12

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

Features are displayed on the Hydrology map on **page 80**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

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



Features are displayed on the Hydrology map on **page 80**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
5	On site	River	Ivel (US Henlow)	GB105033037720	Ivel	Ouse Upper and Bedford

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

6.4 WFD Surface water bodies

Records identified	1
---------------------------	----------

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

Features are displayed on the Hydrology map on **page 80**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
13	57m W	River	Ivel (US Henlow)	GB105033037720	Moderate	Fail	Good	2019

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

6.5 WFD Groundwater bodies

Records on site	1
------------------------	----------

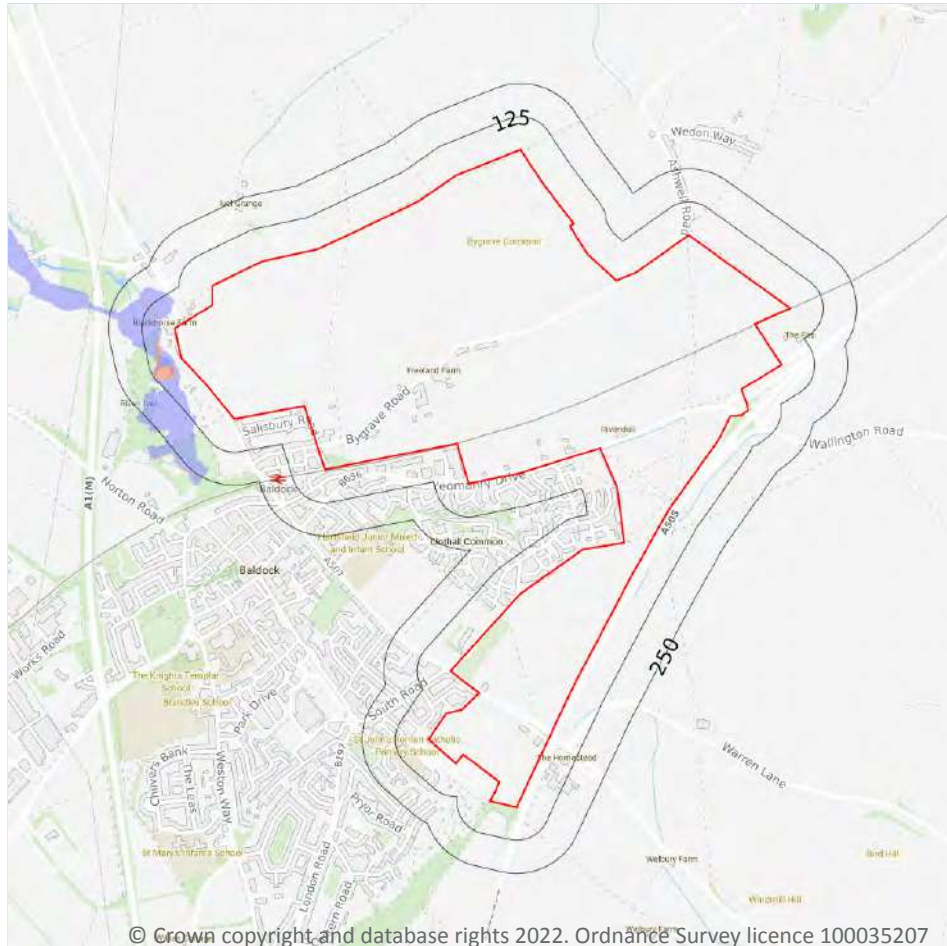
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 80**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Upper Bedford Ouse Chalk	GB40601G603000	Poor	Poor	Poor	2019

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

7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m

4

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

Features are displayed on the River and coastal flooding map on **page 85**



Distance	Flood risk category
On site	N/A
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	0
----------------------------	----------

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

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

7.3 Flood Defences

Records within 250m	0
----------------------------	----------

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0
----------------------------	----------

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

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

7.5 Flood Storage Areas

Records within 250m	0
----------------------------	----------

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

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



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 Flood zone 2

 Flood zone 3

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 08444 159 000

Date: 14 June 2022

7.7 Flood Zone 3

Records within 50m

1

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

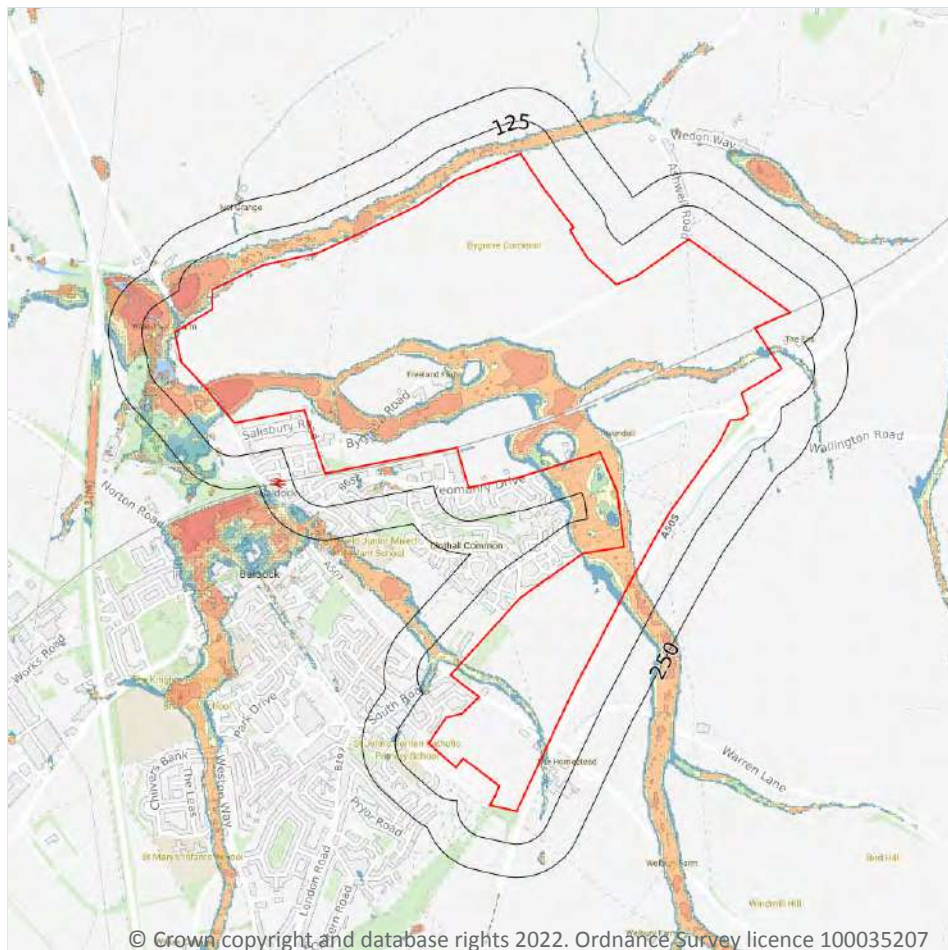
Features are displayed on the River and coastal flooding map on **page 85**

Location	Type
26m W	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

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

Features are displayed on the Surface water flooding map on **page 89**

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

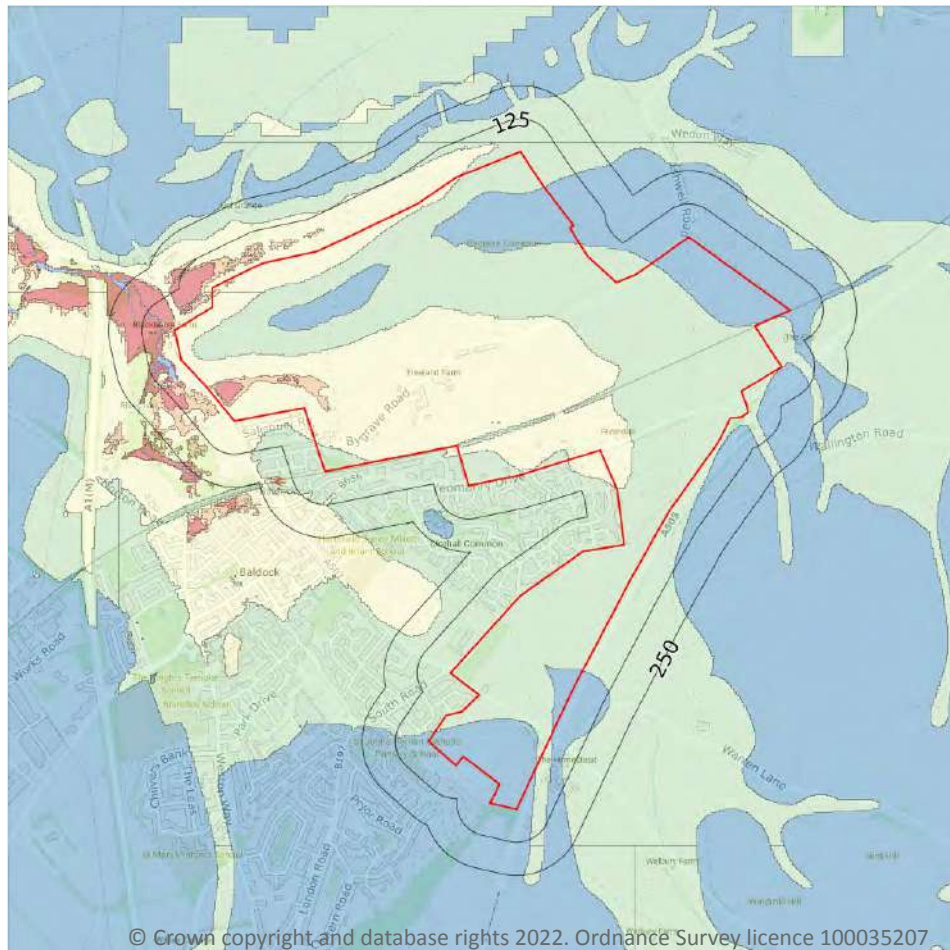
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

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9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

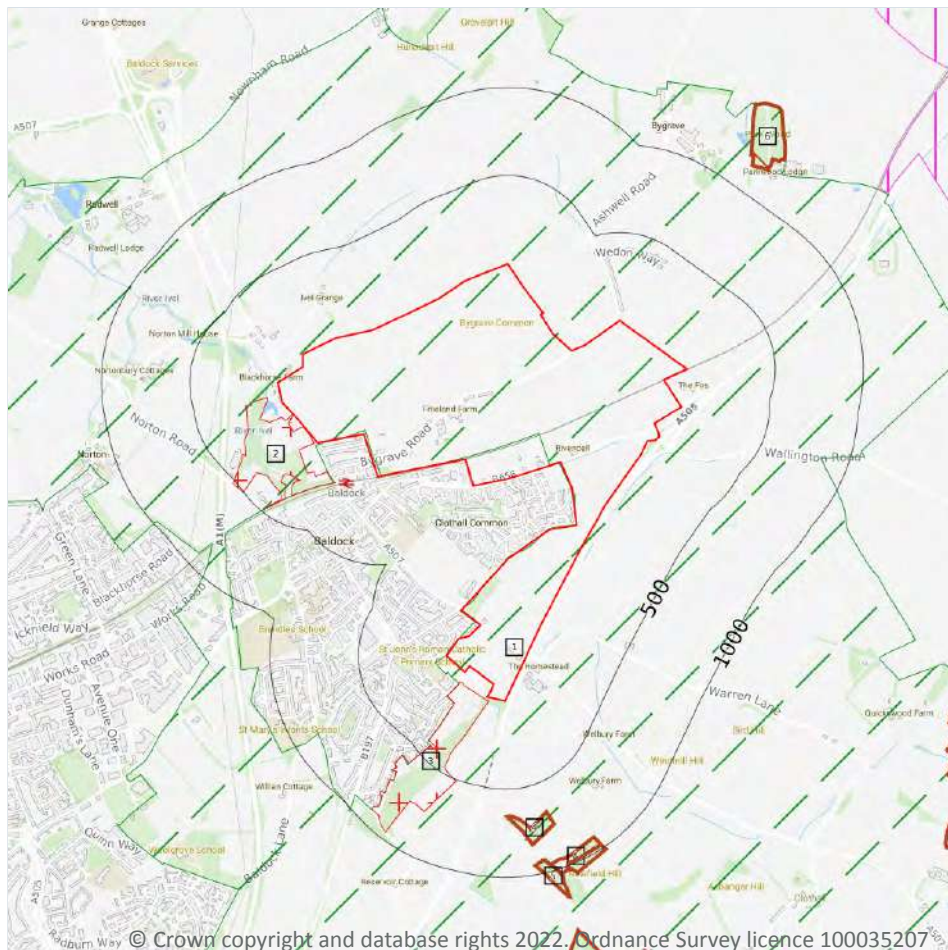
High

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

Features are displayed on the Groundwater flooding map on **page 91**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)
- ▨ Designated Ancient Woodland
- Green Belt
- Nitrate Sensitive Areas

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m

2

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

Features are displayed on the Environmental designations map on **page 92**

ID	Location	Name	Data source
2	3m SW	Ivel Springs	Natural England
3	17m SW	Weston Hill	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

7

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

Features are displayed on the Environmental designations map on **page 92**

ID	Location	Name	Woodland Type
4	655m S	Unknown	Ancient & Semi-Natural Woodland
A	920m SE	Unknown	Ancient & Semi-Natural Woodland
5	927m S	Unknown	Ancient & Semi-Natural Woodland
A	975m SE	Unknown	Ancient Replanted Woodland
6	1155m NE	Park Wood	Ancient & Semi-Natural Woodland
7	1365m S	Green Grove/bush Wood	Ancient & Semi-Natural Woodland
9	1620m SE	Green Grove/bush Wood	Ancient Replanted Woodland

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



10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

1

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

Features are displayed on the Environmental designations map on **page 92**

ID	Location	Name	Local Authority name
1	On site	London	North Hertfordshire

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



10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

1

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

Features are displayed on the Environmental designations map on **page 92**

ID	Location	Name	Data source
8	1498m NE	Slip End	Natural England

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m	8
-----------------------------	----------

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

Location	Name	Type	NVZ ID	Status
On site	Great Ouse NVZ	Surface Water	391	Existing
On site	Anglian Chalk	Groundwater	71	Existing
58m SW	Great Ouse NVZ	Surface Water	391	Existing
58m SW	Anglian Chalk	Groundwater	71	Existing
468m NE	Great Ouse NVZ	Surface Water	391	Existing
468m NE	Anglian Chalk	Groundwater	71	Existing
969m NW	Anglian Chalk	Groundwater	71	Existing
969m NW	Great Ouse NVZ	Surface Water	391	Existing

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



SSSI Impact Zones and Units

10.17 SSSI Impact Risk Zones

Records on site

0

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

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

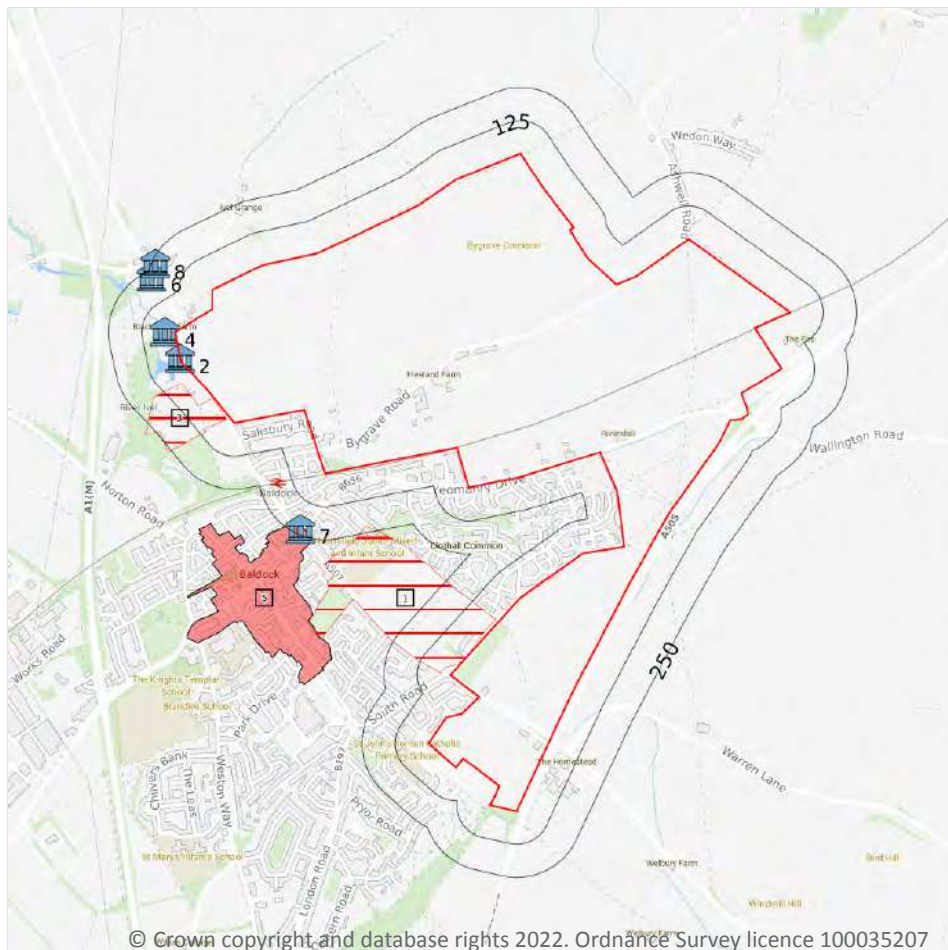
0

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

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



11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m**0**

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

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

11.3 National Parks

Records within 250m**0**

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

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

11.4 Listed Buildings

Records within 250m**5**

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

Features are displayed on the Visual and cultural designations map on **page 99**

ID	Location	Name	Grade	Reference Number	Listed date
2	4m W	The Compasses, Baldock Town, North Hertfordshire, Hertfordshire, SG7	II	1102133	15/08/1974
4	36m W	Blackhorse Farmhouse, Baldock Town, North Hertfordshire, Hertfordshire, SG7	II	1295436	15/08/1974
6	226m NW	Long Bailey, Radwell, North Hertfordshire, Hertfordshire, SG7	II	1102675	19/11/1984
7	228m SW	Raban Court, Baldock, North Hertfordshire, Hertfordshire, SG7	II	1347623	02/11/1954



ID	Location	Name	Grade	Reference Number	Listed date
8	238m NW	The Nook Cottage, Radwell, North Hertfordshire, Hertfordshire, SG7	II	1176203	19/11/1984

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

11.5 Conservation Areas

Records within 250m

1

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

Features are displayed on the Visual and cultural designations map on **page 99**

ID	Location	Name	District	Date of designation
5	208m SW	Baldock	North Hertfordshire	08/06/1970

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

11.6 Scheduled Ancient Monuments

Records within 250m

2

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

Features are displayed on the Visual and cultural designations map on **page 99**

ID	Location	Ancient monument name	Reference number
1	On site	Romano-British small town and Late Iron Age settlement at Baldock	1016305
3	5m SW	Settlement site S of Blackhorse Farm	1003548

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



11.7 Registered Parks and Gardens

Records within 250m

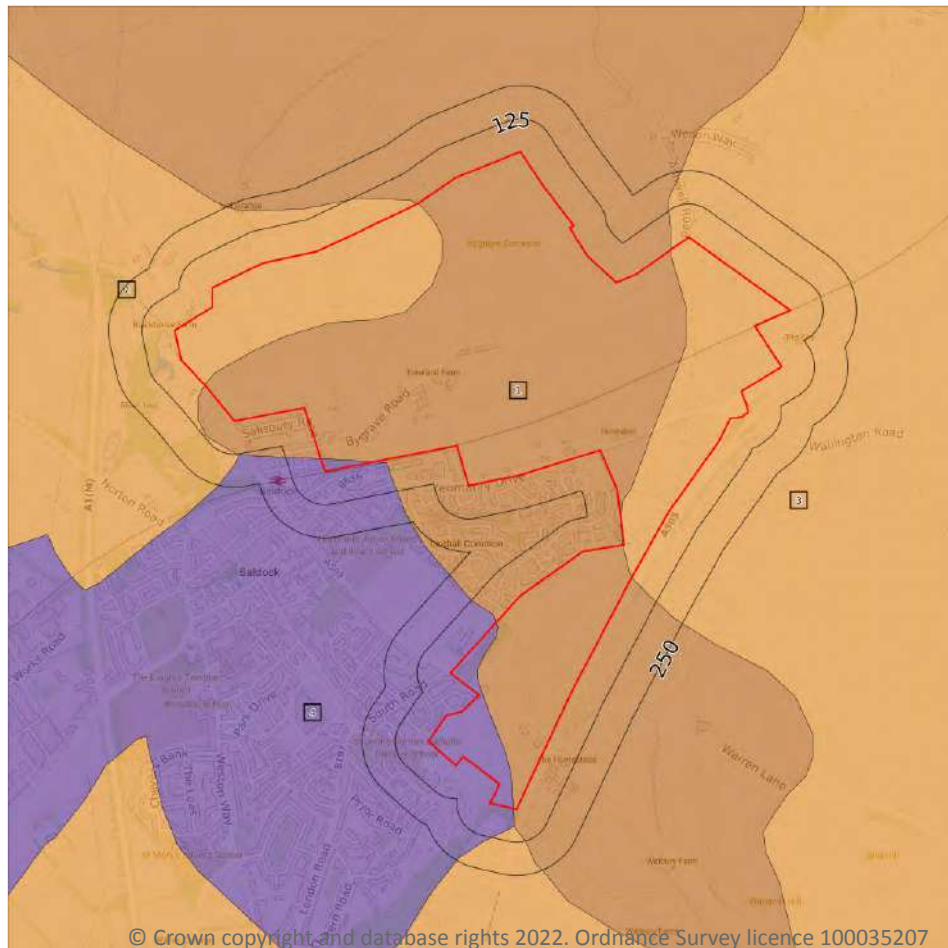
0

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

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



12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

4

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

Features are displayed on the Agricultural designations map on **page 103**

ID	Location	Classification	Description
1	On site	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
2	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
3	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
4	On site	Urban	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.



12.4 Environmental Stewardship Schemes

Records within 250m

4

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

Location	Reference	Scheme	Start Date	End date
3m W	AG00420521	Higher Level Stewardship	01/12/2012	30/11/2022
13m S	AG00396540	Higher Level Stewardship	01/10/2012	30/09/2022
22m S	AG00267477	Entry Level plus Higher Level Stewardship	01/08/2008	31/07/2018
218m W	AG00420521	Higher Level Stewardship	01/12/2012	30/11/2022

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

11

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

Location	Reference	Scheme	Start Date	End Date
On site	611125	Countryside Stewardship (Middle Tier)	01/01/2017	31/12/2021
On site	829115	Countryside Stewardship (Middle Tier)	01/01/2020	31/12/2024
On site	485619	Countryside Stewardship (Middle Tier)	01/01/2017	31/12/2021
16m E	485619	Countryside Stewardship (Middle Tier)	01/01/2017	31/12/2021
22m S	643095	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023
37m SE	644943	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023
45m S	644943	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023

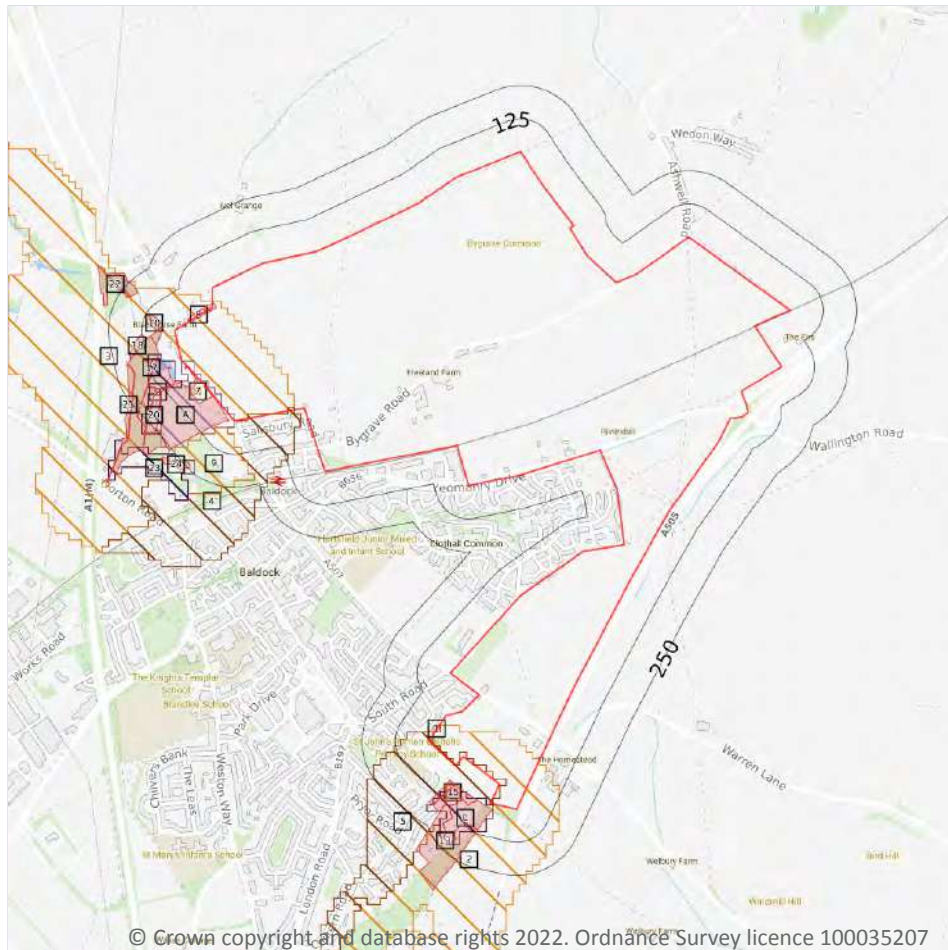


Location	Reference	Scheme	Start Date	End Date
55m SE	523223	Countryside Stewardship (Middle Tier)	01/01/2018	31/12/2022
57m E	523223	Countryside Stewardship (Middle Tier)	01/01/2018	31/12/2022
86m E	523223	Countryside Stewardship (Middle Tier)	01/01/2018	31/12/2022
88m S	644943	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023

This data is sourced from Natural England.



13 Habitat designations



- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

18

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

Features are displayed on the Habitat designations map on **page 107**

ID	Location	Main Habitat	Other habitats
6	On site	Traditional orchard	Main habitat: TORCH (INV > 50%)
A	On site	Good quality semi-improved grassland	Main habitat: GQSIG (FEP + HLS)
B	On site	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
B	14m NW	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset



ID	Location	Main Habitat	Other habitats
C	17m SW	Lowland calcareous grassland	Main habitat: LCGRA (INV > 50%, FEP + HLS)
10	45m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	46m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LMEAD (INV > 50%)
12	49m SW	Lowland meadows	Main habitat: LMEAD (INV > 50%)
13	52m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LCGRA (INV > 50%, FEP + HLS)
14	60m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LCGRA (INV > 50%, FEP + HLS)
16	78m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LMEAD (INV > 50%)
17	89m W	Lowland meadows	Main habitat: LMEAD (INV > 50%)
18	108m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
19	131m SW	Lowland calcareous grassland	Main habitat: LCGRA (INV > 50%, FEP + HLS)
20	138m SW	Lowland meadows	Main habitat: LMEAD (INV > 50%); GQSIG (FEP + HLS)
21	185m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LMEAD (INV > 50%)
22	197m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
24	236m SW	Lowland meadows	Main habitat: LMEAD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

12

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

Features are displayed on the Habitat designations map on **page 107**

ID	Location	Type	Habitat
1	On site	Network Enhancement Zone 2	Not specified
2	On site	Network Enhancement Zone 1	Not specified
3	On site	Network Enhancement Zone 1	Not specified
4	On site	Network Enhancement Zone 2	Not specified
5	On site	Network Enhancement Zone 2	Not specified
A	On site	Restorable Habitat	Not specified



ID	Location	Type	Habitat
C	5m S	Primary Habitat	Lowland calcareous grassland
7	16m SW	Network Enhancement Zone 1	Not specified
8	25m W	Primary Habitat	Lowland meadows
9	34m SW	Network Enhancement Zone 1	Not specified
15	74m S	Network Enhancement Zone 1	Not specified
23	211m SW	Primary Habitat	Lowland meadows

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

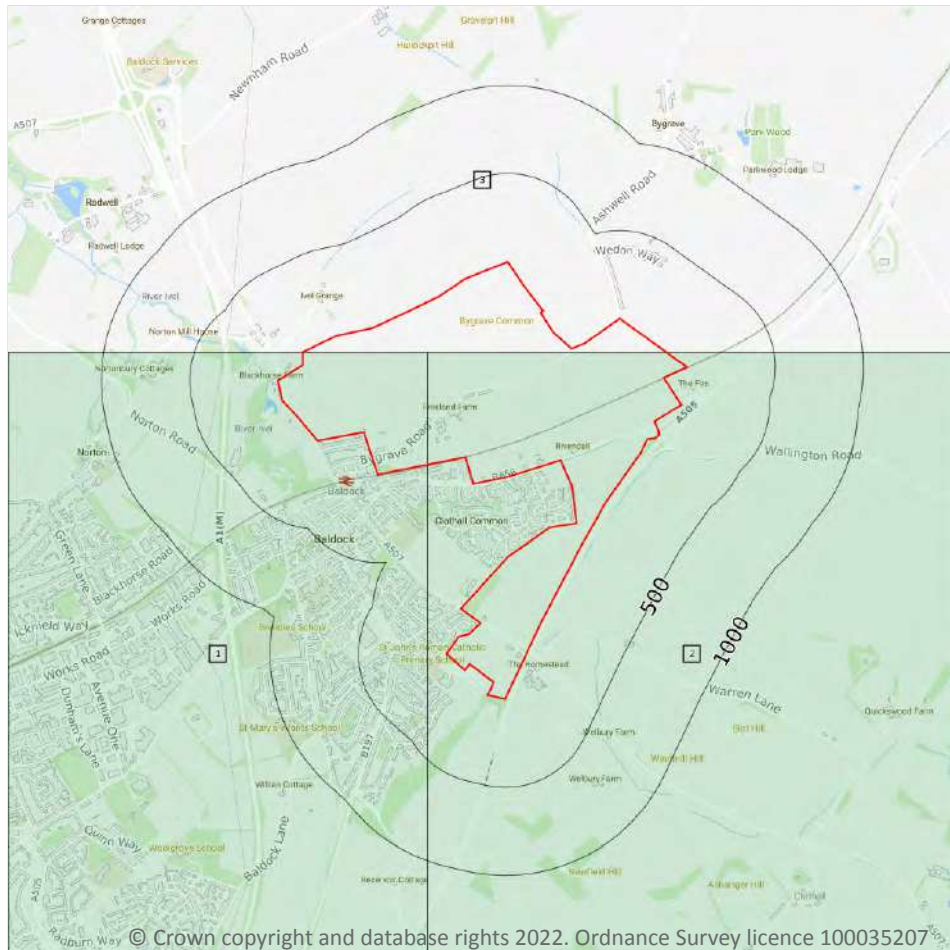
0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



- Site Outline**
- Search buffers in metres (m)**
- Full coverage
 - Partial coverage
 - No coverage

14.1 10k Availability

Records within 500m

3

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

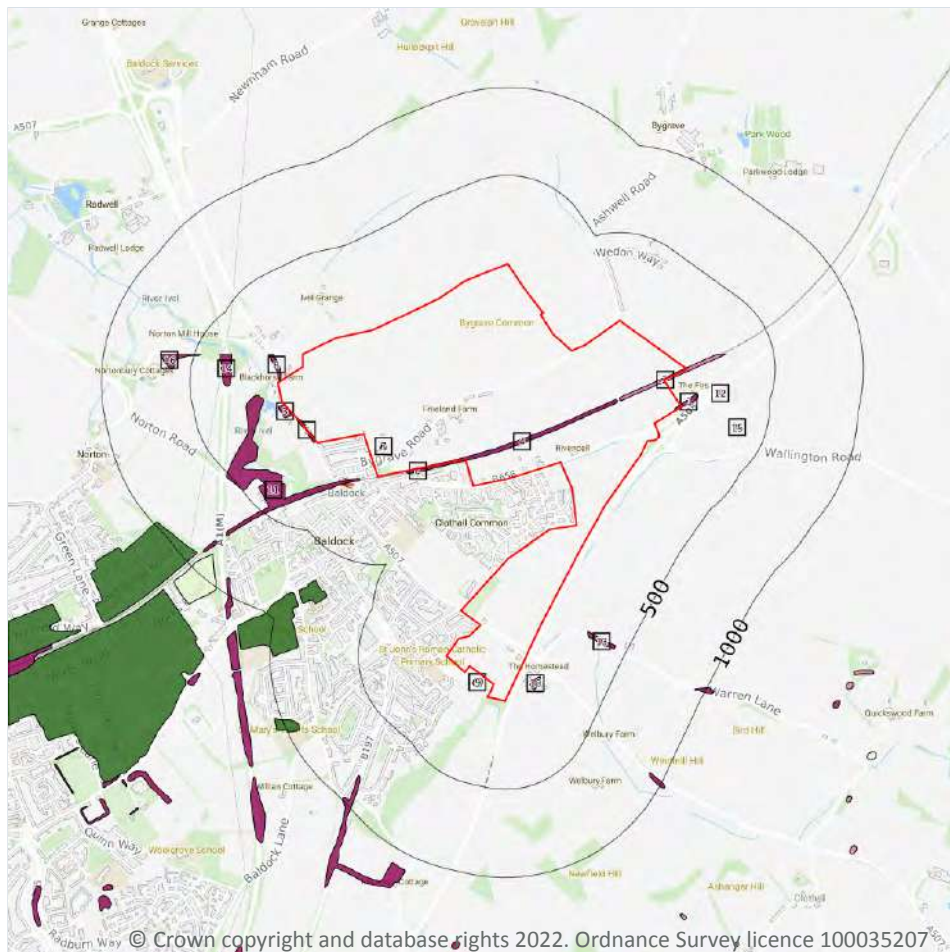
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 110**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TL23SW
2	On site	Full	Full	Full	No coverage	TL23SE
3	On site	No coverage	No coverage	No coverage	No coverage	NoCov

This data is sourced from the British Geological Survey.



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



- Site Outline**
- Search buffers in metres (m)**
- Reclaimed ground
 - Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

16

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 111**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	On site	WGR-VOID	Worked Ground (Undivided)	Void
3	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

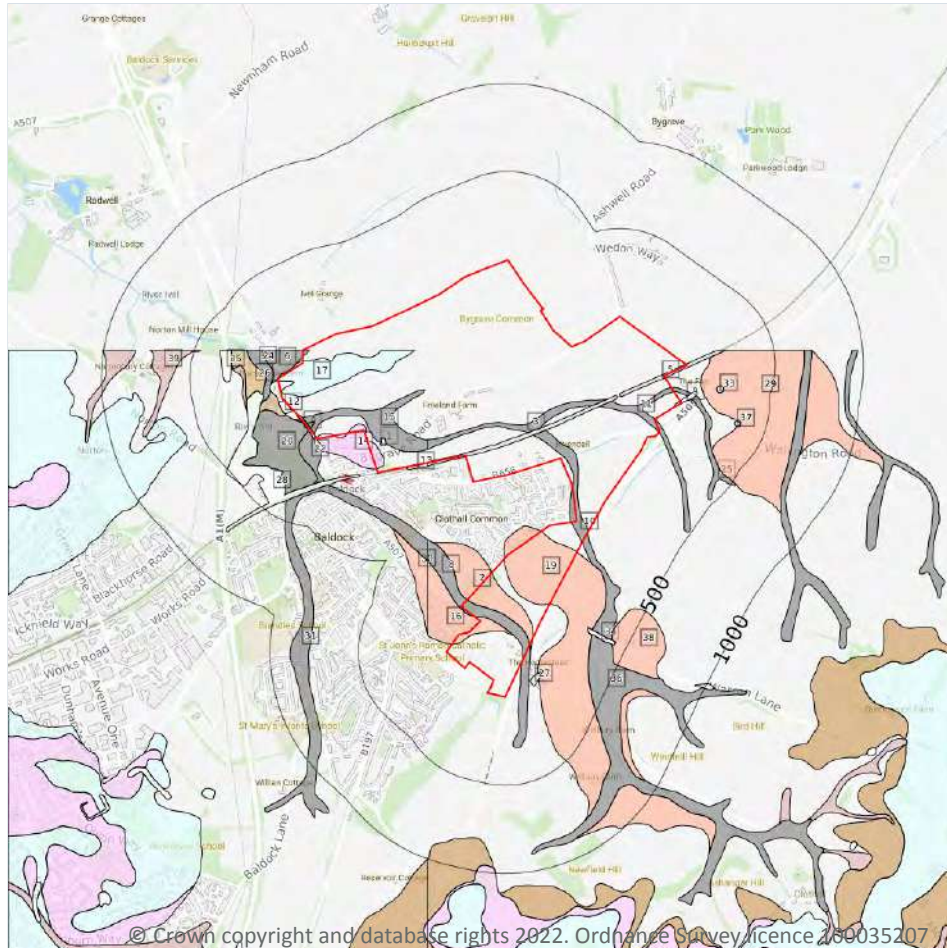


ID	Location	LEX Code	Description	Rock description
5	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	6m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	19m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
10	90m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
11	100m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
12	213m E	WGR-VOID	Worked Ground (Undivided)	Void
13	253m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
14	266m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
15	322m E	WGR-VOID	Worked Ground (Undivided)	Void
16	467m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

▨ Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

39

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 113**

ID	Location	LEX Code	Description	Rock description
1	On site	SUPNM-UKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
2	On site	ALF-XSZ	Alluvial Fan Deposits - Sand And Silt	Sand And Silt
3	On site	DVY-XCZSV	Dry Valley Deposits - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel



ID	Location	LEX Code	Description	Rock description
4	On site	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
5	On site	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
6	On site	DVY-XCZSV	Dry Valley Deposits - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
7	On site	ALV-CZ	Alluvium - Silty Clay	Clay, Silty
8	On site	DVY-XCZSV	Dry Valley Deposits - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
9	On site	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
10	On site	DVY-XCZSV	Dry Valley Deposits - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
11	On site	DVY-XCZSV	Dry Valley Deposits - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
12	On site	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
13	On site	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
14	On site	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel
15	On site	DVY-XCZSV	Dry Valley Deposits - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
16	On site	ALF-XSZ	Alluvial Fan Deposits - Sand And Silt	Sand And Silt
17	On site	LOFT-DMTN	Lowestoft Formation - Diamicton	Diamicton
18	On site	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
19	On site	ALF-XSZ	Alluvial Fan Deposits - Sand And Silt	Sand And Silt
20	7m SW	ALV-CZ	Alluvium - Silty Clay	Clay, Silty
21	7m SW	DVY-XCZSV	Dry Valley Deposits - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
22	11m SW	DVY-XCZSV	Dry Valley Deposits - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
23	24m SW	PEAT-P	Peat - Peat	Peat
24	24m W	ALV-CZ	Alluvium - Silty Clay	Clay, Silty
25	59m E	DVY-XCZSV	Dry Valley Deposits - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
26	69m W	PEAT-P	Peat - Peat	Peat
27	90m SE	SUPNM-UNKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry



ID	Location	LEX Code	Description	Rock description
28	100m W	SUPNM-UKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
29	101m SE	ALF-XSZ	Alluvial Fan Deposits - Sand And Silt	Sand And Silt
30	144m NW	ALF-XSZ	Alluvial Fan Deposits - Sand And Silt	Sand And Silt
31	178m SW	DVY-XCZSV	Dry Valley Deposits - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
32	182m W	HEAD-DMTN	Head - Diamicton	Diamicton
33	213m E	SUPNM-UKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
34	253m SE	SUPNM-UKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
35	266m W	SUPNM-UKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
36	286m SE	DVY-XCZSV	Dry Valley Deposits - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
37	322m E	SUPNM-UKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
38	387m SE	ALF-XSZ	Alluvial Fan Deposits - Sand And Silt	Sand And Silt
39	467m W	HEAD-DMTN	Head - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

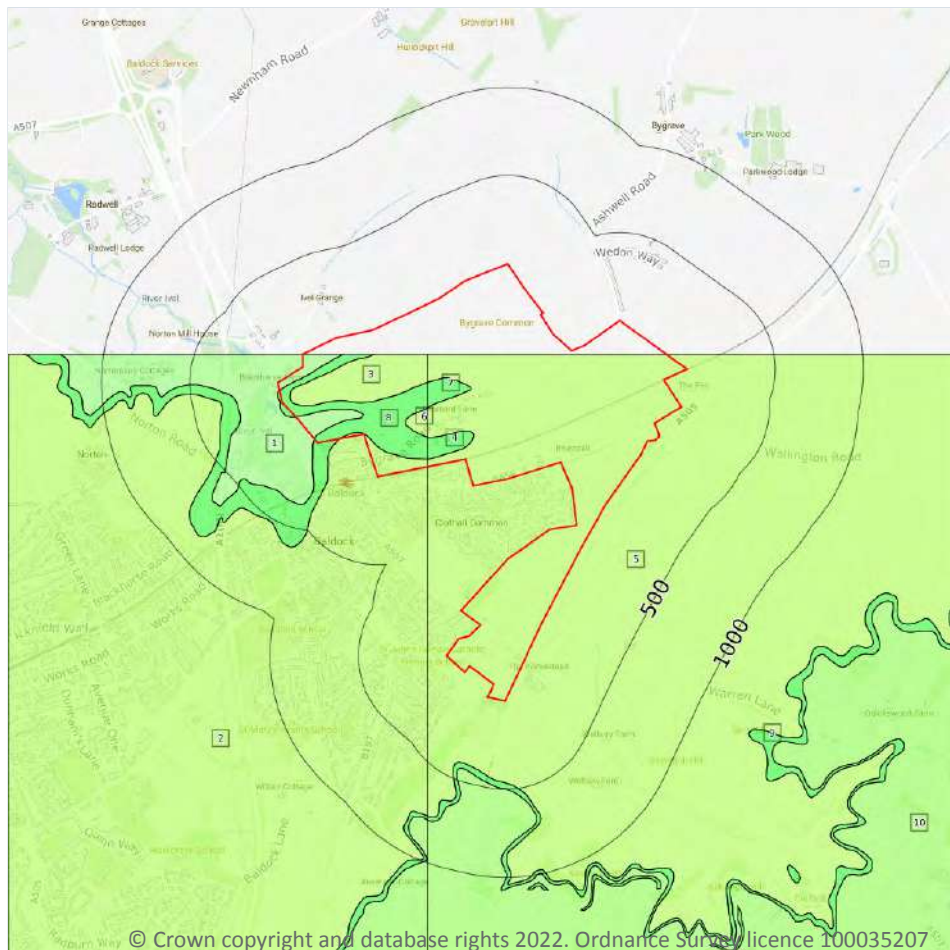
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

10

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 116**

ID	Location	LEX Code	Description	Rock age
1	On site	ZZCH-CHLK	Zig Zag Chalk Formation - Chalk	Cenomanian Age
2	On site	HNCK-CHLK	Holywell Nodular Chalk Formation And New Pit Chalk Formation (undifferentiated) - Chalk	Turonian Age - Cenomanian Age
3	On site	HNCK-CHLK	Holywell Nodular Chalk Formation And New Pit Chalk Formation (undifferentiated) - Chalk	Turonian Age - Cenomanian Age

ID	Location	LEX Code	Description	Rock age
4	On site	MR-CHLK	Melbourn Rock Member - Chalk	Turonian Age - Cenomanian Age
5	On site	HNCK-CHLK	Holywell Nodular Chalk Formation And New Pit Chalk Formation (undifferentiated) - Chalk	Turonian Age - Cenomanian Age
6	On site	HNCK-CHLK	Holywell Nodular Chalk Formation And New Pit Chalk Formation (undifferentiated) - Chalk	Turonian Age - Cenomanian Age
7	On site	MR-CHLK	Melbourn Rock Member - Chalk	Turonian Age - Cenomanian Age
8	On site	MR-CHLK	Melbourn Rock Member - Chalk	Turonian Age - Cenomanian Age
9	398m S	CKR-CHLK	Chalk Rock Member - Chalk	Turonian Age
10	428m S	LESE-CHLK	Lewes Nodular Chalk Formation And Seaford Chalk Formation (undifferentiated) - Chalk	Santonian Age - Turonian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

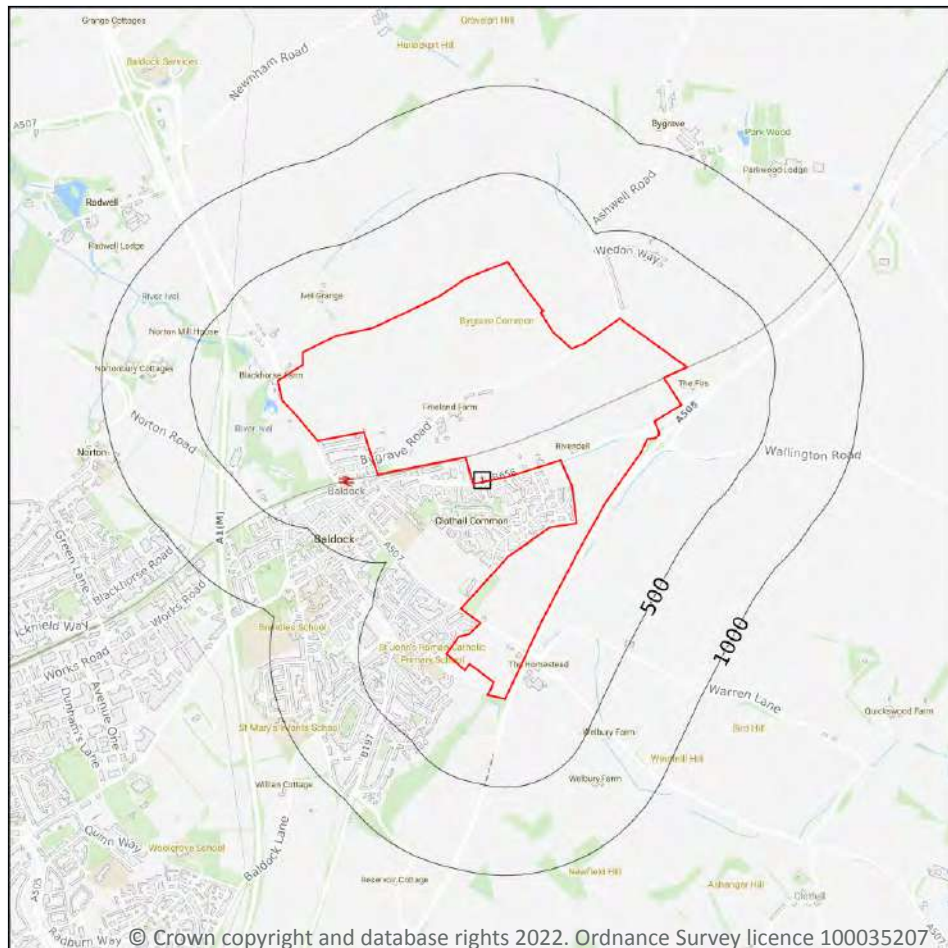
0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

☐ Geological map tile

15.1 50k Availability

Records within 500m

1

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

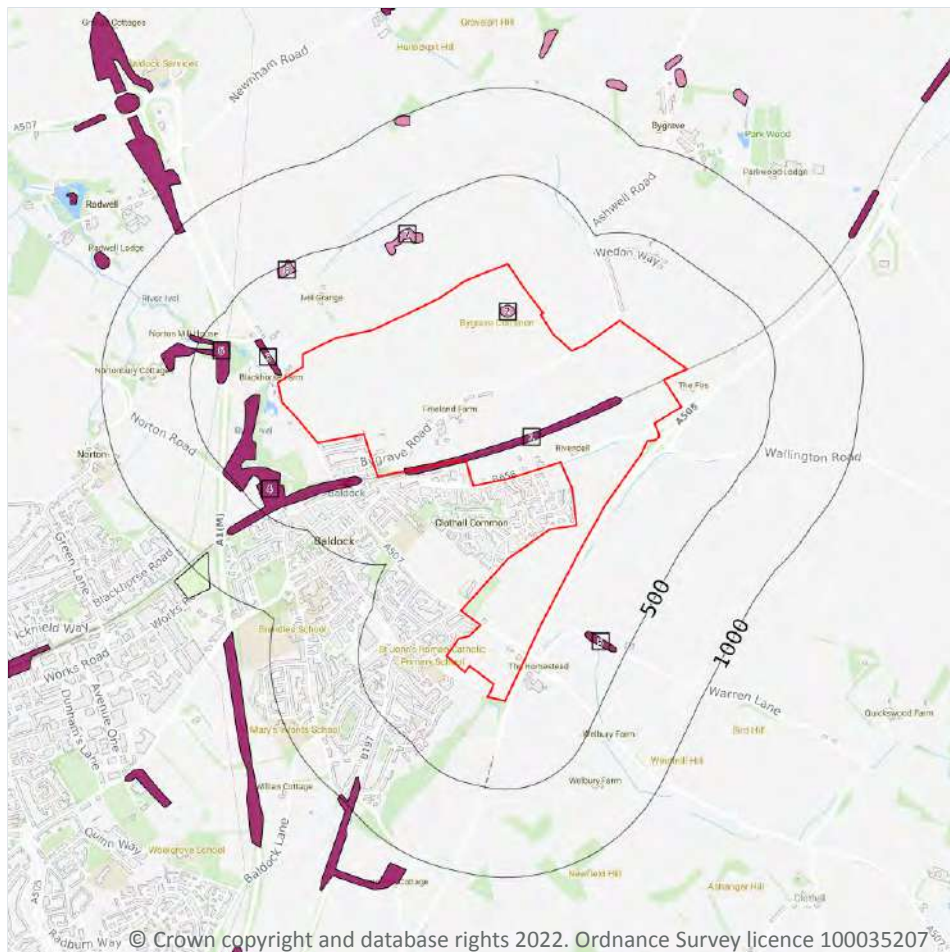
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 118**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW221_hitchin_v4

This data is sourced from the British Geological Survey.



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



- Site Outline
- Search buffers in metres (m)
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

8

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 119**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	On site	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
3	24m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	94m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT



ID	Location	LEX Code	Description	Rock description
5	247m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
6	283m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
7	321m NW	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
8	439m NW	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

3

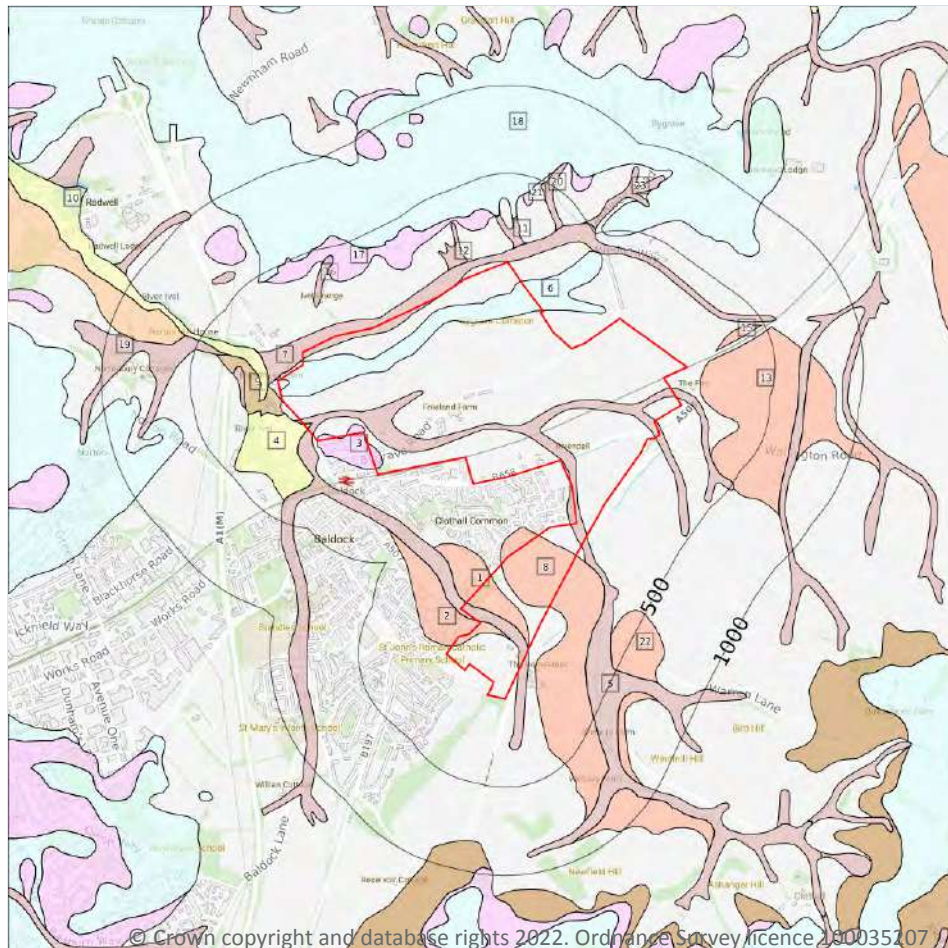
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Very High	Low
On site	Mixed	Very High	Low
24m W	Mixed	Very High	Low

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

23

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 121**

ID	Location	LEX Code	Description	Rock description
1	On site	ALF-XSZ	ALLUVIAL FAN DEPOSITS	SAND AND SILT
2	On site	ALF-XSZ	ALLUVIAL FAN DEPOSITS	SAND AND SILT
3	On site	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
4	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
5	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
6	On site	LOFT-DMTN	LOWESTOFT FORMATION	DIAMICTON
7	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
8	On site	ALF-XSZ	ALLUVIAL FAN DEPOSITS	SAND AND SILT
9	5m W	PEAT-P	PEAT	PEAT
10	55m W	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
11	81m N	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
12	85m N	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
13	94m E	ALF-XSZ	ALLUVIAL FAN DEPOSITS	SAND AND SILT
14	190m W	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
15	190m NE	ALF-XSZ	ALLUVIAL FAN DEPOSITS	SAND AND SILT
16	196m NW	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
17	223m NW	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
18	247m N	LOFT-DMTN	LOWESTOFT FORMATION	DIAMICTON
19	311m NW	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
20	318m NE	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
21	337m N	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
22	383m SE	ALF-XSZ	ALLUVIAL FAN DEPOSITS	SAND AND SILT
23	472m NE	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m

15

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Moderate	Low
On site	Mixed	Moderate	Low
On site	Mixed	Moderate	Low
On site	Mixed	High	Very Low
On site	Intergranular	High	Moderate
On site	Mixed	High	Very Low
On site	Mixed	High	Very Low
On site	Intergranular	Very High	High
On site	Intergranular	High	Moderate
On site	Intergranular	High	Moderate
On site	Intergranular	High	Very Low
On site	Mixed	High	Very Low
On site	Mixed	High	Very Low
On site	Mixed	High	Very Low
5m W	Mixed	Low	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



15.7 Landslip permeability (50k)

Records within 50m

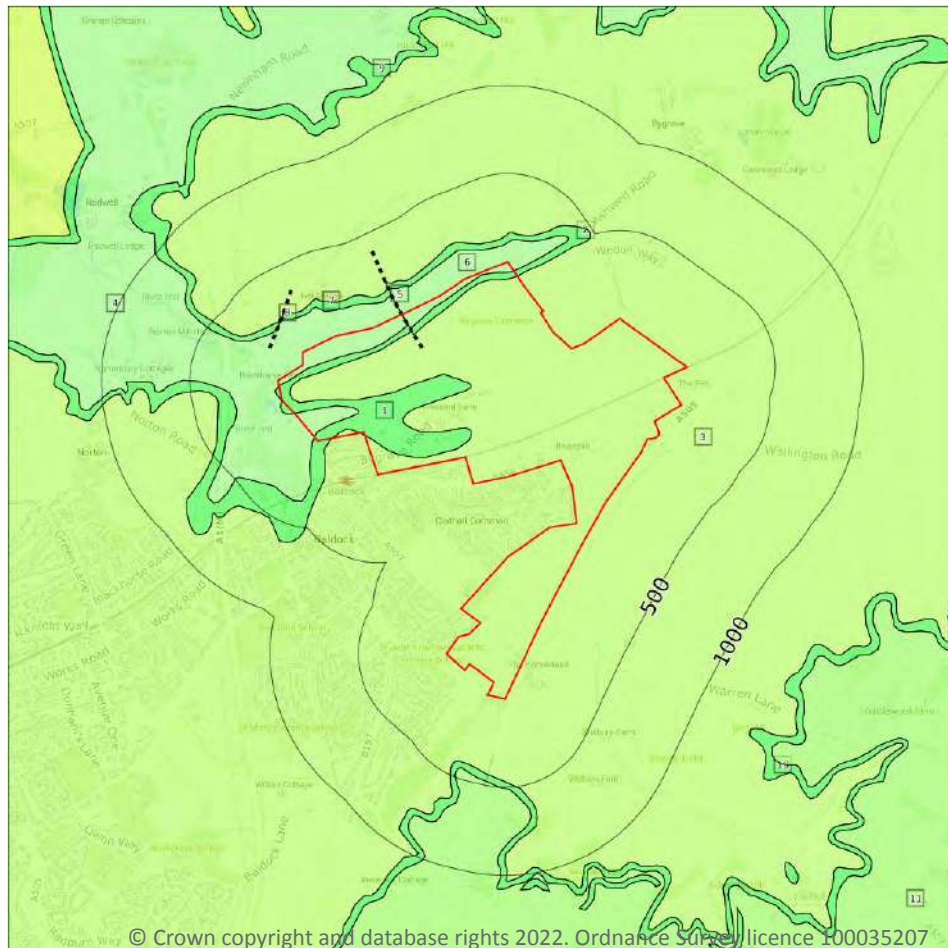
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

9

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 125**

ID	Location	LEX Code	Description	Rock age
1	On site	MR-CHLK	MELBOURN ROCK MEMBER - CHALK	CENOMANIAN
2	On site	MR-CHLK	MELBOURN ROCK MEMBER - CHALK	CENOMANIAN
3	On site	HNCK-CHLK	HOLYWELL NODULAR CHALK FORMATION AND NEW PIT CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CENOMANIAN



ID	Location	LEX Code	Description	Rock age
4	On site	ZZCH-CHLK	ZIG ZAG CHALK FORMATION - CHALK	CENOMANIAN
6	On site	ZZCH-CHLK	ZIG ZAG CHALK FORMATION - CHALK	CENOMANIAN
7	108m NW	MR-CHLK	MELBOURN ROCK MEMBER - CHALK	CENOMANIAN
9	193m NW	MR-CHLK	MELBOURN ROCK MEMBER - CHALK	CENOMANIAN
10	406m S	CKR-CHLK	CHALK ROCK MEMBER - CHALK	TURONIAN
11	438m S	LESE-CHLK	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

14

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

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

This data is sourced from the British Geological Survey.



15.10 Bedrock faults and other linear features (50k)

Records within 500m

2

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

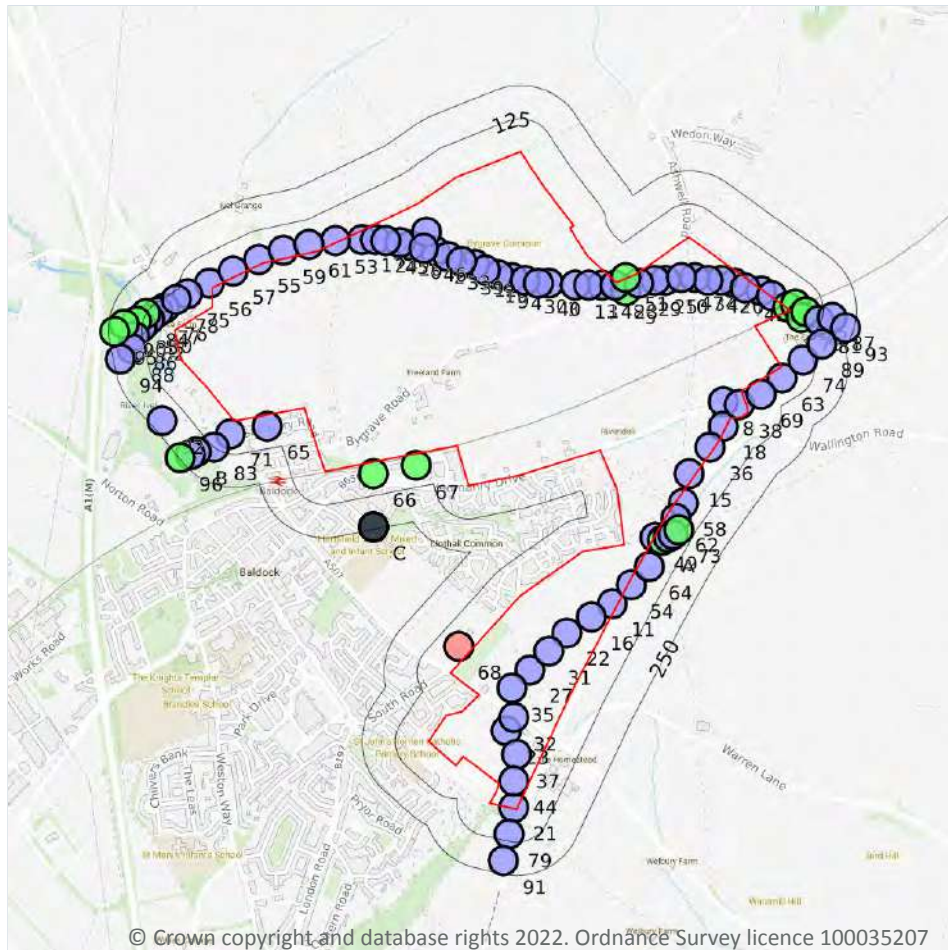
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 125**

ID	Location	Category	Description
5	On site	FAULT	Fault, inferred
8	182m NW	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

107

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

Features are displayed on the Boreholes map on **page 128**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	525710 235010	A505 BALDOCK BYPASS B/L 37	7.0	N	534383
2	On site	525130 235140	A505 BALDOCK BYPASS B/L 25	6.0	N	534371
3	On site	525560 235020	A505 BALDOCK BYPASS B/L 34	5.0	N	534380



ID	Location	Grid reference	Name	Length	Confidential	Web link
4	On site	525420 235040	A505 BALDOCK BYPASS B/L 31	5.0	N	534377
5	On site	525850 234990	A505 BALDOCK BYPASS BH40	13.0	N	534624
6	On site	525040 235160	A505 BALDOCK BYPASS B/L 23	6.5	N	534369
7	On site	526260 235020	A505 BALDOCK BYPASS B/L 29A	6.0	N	534394
8	On site	526220 234570	A505 BALDOCK BYPASS TP13	2.0	N	534570
9	On site	525370 235050	A505 BALDOCK BYPASS B/L 30	6.0	N	534376
10	On site	526000 235030	A505 BALDOCK BYPASS B/L 44	7.0	N	534389
11	On site	525800 233810	A505 BALDOCK BYPASS TP26	6.0	N	534583
12	On site	525280 235090	A505 BALDOCK BYPASS B/L 28	6.0	N	534374
13	On site	525660 235010	A505 BALDOCK BYPASS B/L 36	6.0	N	534382
14	On site	525100 235210	A505 BALDOCK BYPASS B/L 35	5.5	N	534381
15	On site	526090 234300	A505 BALDOCK BYPASS TP16	6.0	N	534573
16	On site	525720 233760	A505 BALDOCK BYPASS TP27	7.0	N	534584
17	On site	524855 235184	A505 BALDDOCK BYPASS TP 27	2.0	N	534486
18	On site	526220 234480	A505 BALDOCK BYPASS TP14	3.0	N	534571
19	On site	525320 235070	A505 BALDOCK BYPASS B/L 29	6.0	N	534375
20	On site	526210 235030	A505 BALDOCK BYPASS B/L 48	5.0	N	534393
21	On site	525430 233040	A505 BALDOCK BYPASS TP36	2.0	N	534593
22	On site	525630 233700	A505 BALDOCK BYPASS TP28	8.5	N	534585
23	On site	525400 233330	A505 BALDOCK BYPASS TP33	2.0	N	534590
24	On site	524907 235182	A505 BALDDOCK BYPASS TP 28	3.0	N	534487
25	On site	525960 235030	A505 BALDOCK BYPASS B/L 43	7.0	N	534388
26	On site	524998 235172	A505 BALDDOCK BYPASS 22	5.0	N	534479
27	On site	525490 233560	A505 BALDOCK BYPASS TP30	2.0	N	534587
28	On site	525810 235010	A505 BALDOCK BYPASS B/L 39	8.0	N	534385
29	On site	525900 235020	A505 BALDOCK BYPASS B/L 42	7.0	N	534387
30	On site	525470 235030	A505 BALDOCK BYPASS B/L 32	6.0	N	534378
31	On site	525560 233630	A505 BALDOCK BYPASS TP29	7.2	N	534586



ID	Location	Grid reference	Name	Length	Confidential	Web link
32	On site	525430 233380	A505 BALDOCK BYPASS TP32	2.0	N	534589
33	On site	525180 235120	A505 BALDOCK BYPASS B/L 26	7.0	N	534372
34	On site	526110 235040	A505 BALDOCK BYPASS B/L 46	8.0	N	534391
35	On site	525420 233490	A505 BALDOCK BYPASS TP31	2.0	N	534588
36	On site	526170 234400	A505 BALDOCK BYPASS TP15	4.0	N	534572
37	On site	525440 233240	A505 BALDOCK BYPASS TP34	2.0	N	534591
38	On site	526280 234560	A505 BALDOCK BYPASS TP12	2.0	N	534569
39	On site	525230 235100	A505 BALDOCK BYPASS B/L 27	6.0	N	534373
40	On site	525520 235020	A505 BALDOCK BYPASS B/L 33	6.0	N	534379
41	On site	526360 234990	A505 BALDOCK BYPASS BH49	5.0	N	534625
42	On site	526160 235030	A505 BALDOCK BYPASS B/L 47	7.0	N	534392
43	On site	526300 235000	A505 BALDOCK BYPASS B/L 30A	3.0	N	534395
44	On site	525430 233140	A505 BALDOCK BYPASS TP35	2.0	N	534592
45	On site	524946 235178	A505 BALDDOCK BYPASS 21	5.0	N	534478
46	On site	525090 235150	A505 BALDOCK BYPASS B/L 24	7.0	N	534370
47	On site	526060 235040	A505 BALDOCK BYPASS B/L 45	7.0	N	534390
48	On site	525760 235010	A505 BALDOCK BYPASS B/L 38	7.0	N	534384
49	1m SE	525960 234060	A505 BALDOCK BYPASS TP23	10.0	N	534580
50	2m NE	526400 234970	A505 BALDOCK BYPASS BH50	5.0	N	534626
51	4m N	525850 235040	A505 BALDOCK BYPASS B/L 41	14.0	N	534386
52	5m NE	526460 234930	A505 BALDOCK BYPASS BH51	19.0	N	534627
53	9m NW	524755 235180	A505 BALDDOCK BYPASS TP 26	1.0	N	534485
54	10m SE	525870 233880	A505 BALDOCK BYPASS TP25	10.0	N	534582
55	21m NW	524465 235109	A505 BALDDOCK BYPASS TP 23	2.0	N	534482
56	21m NW	524279 235019	A505 BALDDOCK BYPASS TP 21	3.0	N	534480
57	23m NW	524370 235065	A505 BALDDOCK BYPASS TP 22	1.0	N	534481
58	27m SE	526070 234190	A505 BALDOCK BYPASS TP17	6.0	N	534574
59	30m N	524559 235142	A505 BALDDOCK BYPASS TP 24	2.0	N	534483



ID	Location	Grid reference	Name	Length	Confidential	Web link
60	30m NE	526490 234940	A505 BALDOCK BYPASS BH52	19.0	N	534628
A	32m SE	525990 234050	A505 BALDOCK BYPASS TP22A	15.0	N	534579
61	34m N	524656 235166	A505 BALDDOCK BYPASS TP 25	2.0	N	534484
62	37m SE	526040 234130	A505 BALDOCK BYPASS TP18	7.0	N	534575
63	37m SE	526440 234660	A505 BALDOCK BYPASS TP10	2.0	N	534567
64	38m SE	525940 233950	A505 BALDOCK BYPASS TP24	10.0	N	534581
65	41m S	524500 234480	SALISBURY RD BALDOCK TRENCH	4.27	N	535207
66	44m S	524900 234300	TOLL BAR HILL, BALDOCK	18.28	N	534637
A	45m SE	526010 234060	A505 BALDOCK BYPASS TP21	10.0	N	534578
67	45m S	525060 234330	PAINE LTD, ROYSTON RD., BALDOCK	15.69	N	534560
68	46m NW	525220 233650	HOMELAND, WALLINGTON RD., BALDOCK	55.47	N	534562
69	47m SE	526360 234600	A505 BALDOCK BYPASS TP11	2.0	N	534568
70	48m SE	526510 234890	A505 BALDOCK BYPASS BH53	20.0	N	534629
71	51m S	524360 234450	A505 BALDOCK BY PASS TP 81	2.0	N	534722
A	57m SE	526030 234070	A505 BALDOCK BYPASS TP20	10.0	N	534577
72	60m E	526530 234910	A505 BALDOCK BYPASS BH54	21.0	N	534630
73	65m SE	526050 234090	A505 BALDOCK BYPASS TP19	15.0	N	534576
74	86m E	526520 234730	A505 BALDOCK BYPASS TP9	3.0	N	534566
75	92m NW	524197 234978	A505 BALDOCK BY PASS TP 20	3.0	N	534769
76	93m NW	524112 234926	A505 BALDOCK BY PASS 20	6.5	N	534749
77	95m NW	524087 234911	A505 BALDOCK BY PASS TP 18	3.0	N	534767
78	97m NW	524154 234957	A505 BALDOCK BY PASS TP 19	3.0	N	534768
79	99m S	525410 232940	A505 BALDOCK BYPASS TP37	3.0	N	534594
80	104m NW	524054 234881	A505 BALDOCK BY PASS TP 17	3.0	N	534766
81	115m E	526580 234880	A505 BALDOCK BYPASS BH55	5.45	N	534631
82	124m W	524027 234853	A505 BALDOCK BY PASS TP 16	3.0	N	534765
83	124m SW	524300 234400	A505 BALDOCK BY PASS TP 82	3.0	N	534723
84	125m NW	524042 234903	A505 BALDOCK BY PASS 19	12.5	N	534748

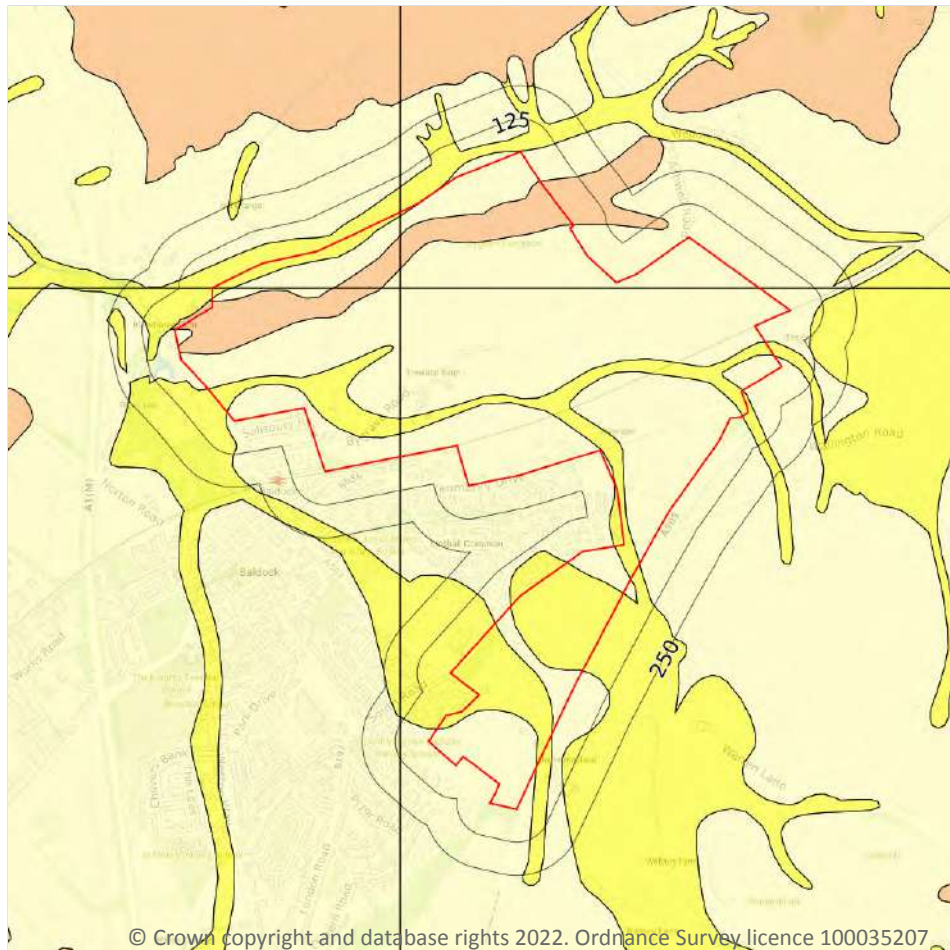


ID	Location	Grid reference	Name	Length	Confidential	Web link
85	150m W	524004 234875	A505 BALDOCK BY PASS 18	12.5	N	534747
86	154m W	523998 234817	A505 BALDOCK BY PASS TP 15	2.0	N	534764
87	162m E	526630 234890	A505 BALDOCK BYPASS TP31	2.0	N	534632
88	174m W	523987 234772	A505 BALDOCK BY PASS TP 14	3.0	N	534763
89	174m SE	526590 234790	A505 BALDOCK BYPASS TP8	2.0	N	534565
B	187m SW	524230 234380	A505 BALDOCK BY PASS TP 83	3.0	N	534724
90	195m W	523957 234866	A505 BALDOCK BY PASS 17	12.5	N	534746
91	201m S	525390 232840	A505 BALDOCK BYPASS TP38	3.0	N	534595
B	209m SW	524210 234370	A505 BALDOCK BY PASS TP 84	3.0	N	534725
92	211m SW	524100 234500	THE COMPASSES BALDOCK	3.05	N	20946787
93	220m E	526680 234850	A505 BALDOCK BYPASS TP7	2.0	N	534564
94	224m W	523944 234732	A505 BALDOCK BY PASS TP 13	3.0	N	534762
95	226m W	523924 234836	A505 BALDOCK BY PASS 16	12.5	N	534745
C	240m S	524900 234100	CLOTHALL ROAD TP 1	-	Y	N/A
C	240m S	524900 234100	CLOTHALL ROAD TP 2	-	Y	N/A
C	240m S	524900 234100	CLOTHALL ROAD TP 3	-	Y	N/A
C	240m S	524900 234100	CLOTHALL ROAD TP 5	-	Y	N/A
C	240m S	524900 234100	CLOTHALL ROAD TP 4	-	Y	N/A
C	240m S	524900 234100	CLOTHALL ROAD TP 6	-	Y	N/A
96	246m SW	524170 234360	A505 BALDOCK BY PASS TP 85	15.0	N	534726

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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17.1 Shrink swell clays

Records within 50m

4

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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 133**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
On site	Low	Ground conditions predominantly medium plasticity.

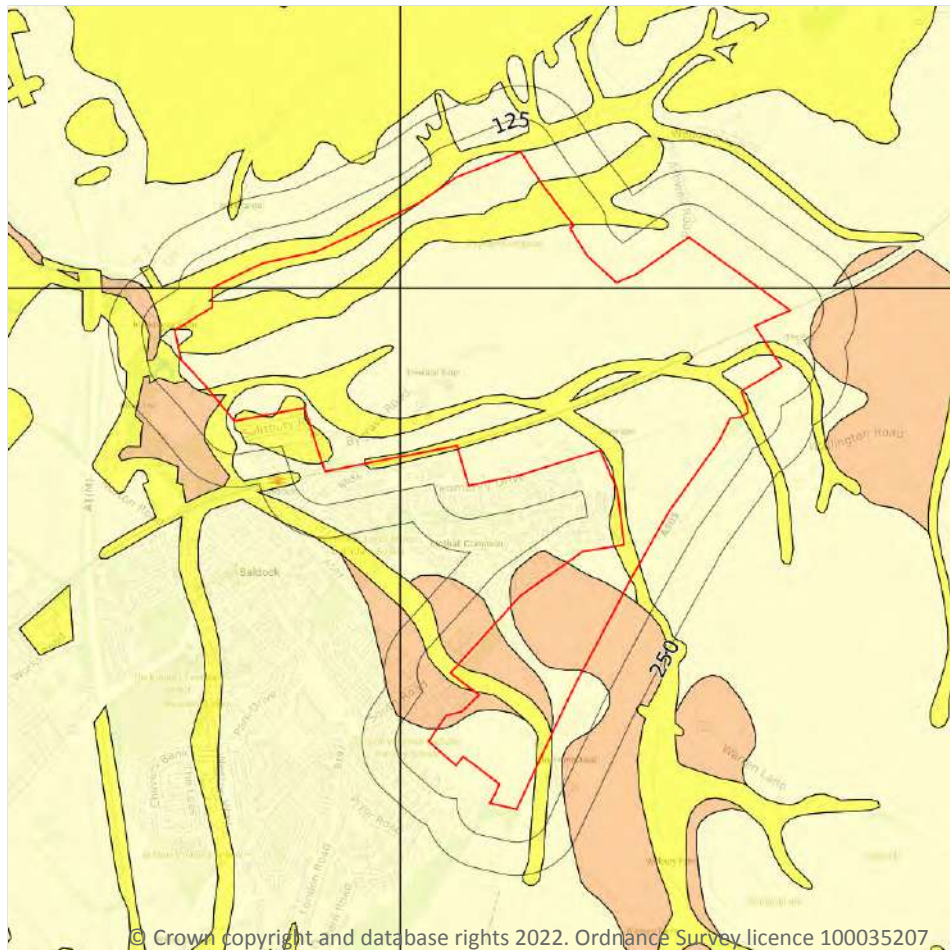


Location	Hazard rating	Details
35m NW	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

4

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 135**

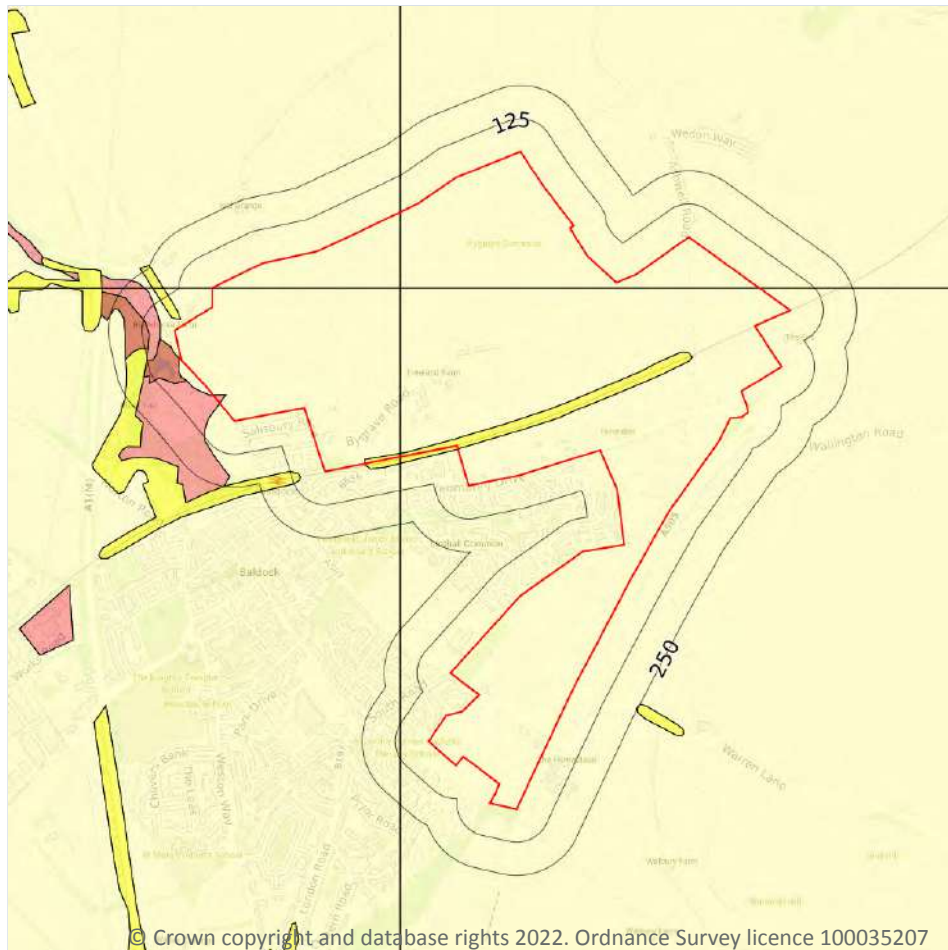
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
35m NW	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

5

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 137**

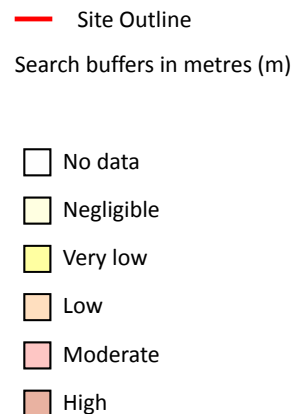
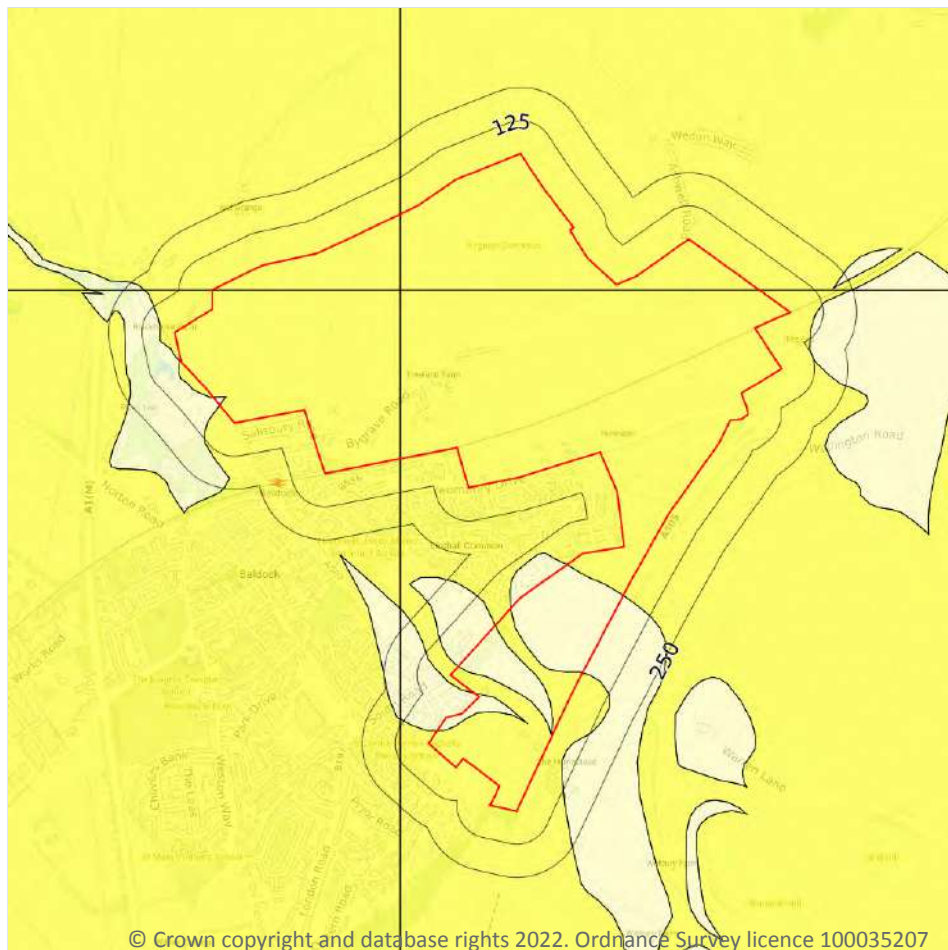
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

Location	Hazard rating	Details
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
5m W	High	Highly compressible strata present. Significant constraint on land use depending on thickness.
24m NW	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

2

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

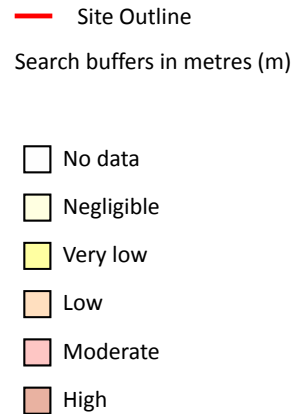
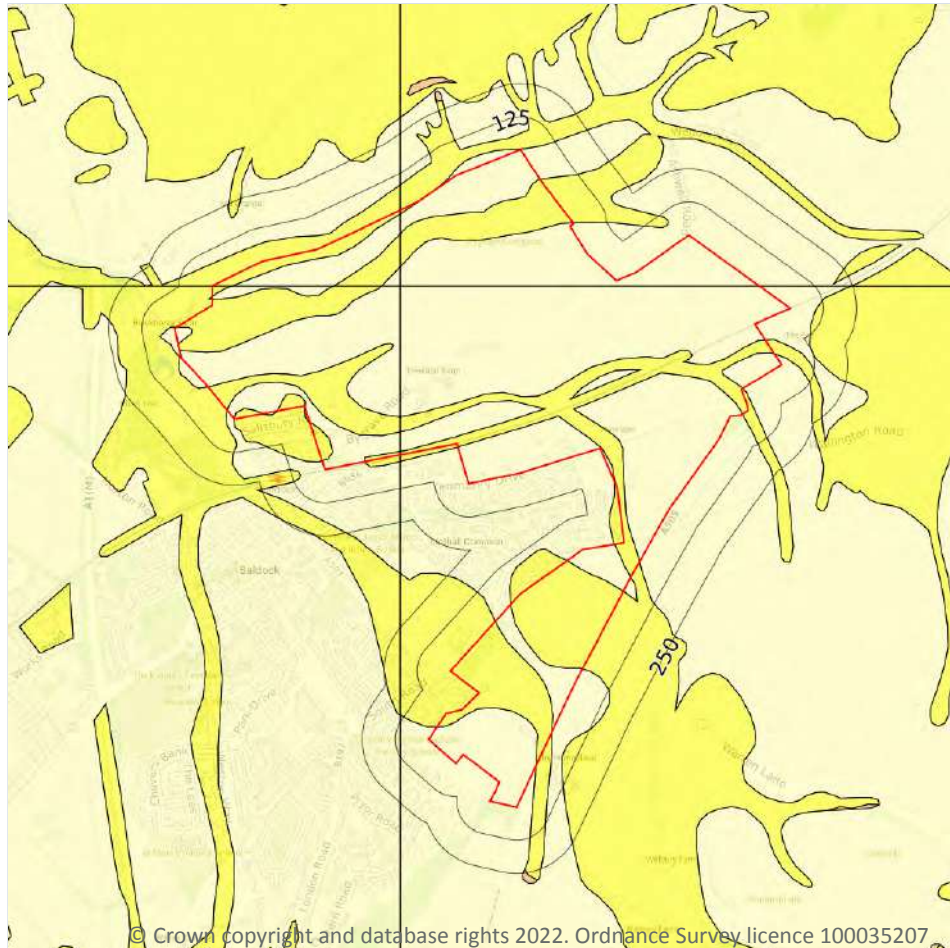
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 139**

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

3

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

Features are displayed on the Natural ground subsidence - Landslides map on **page 140**

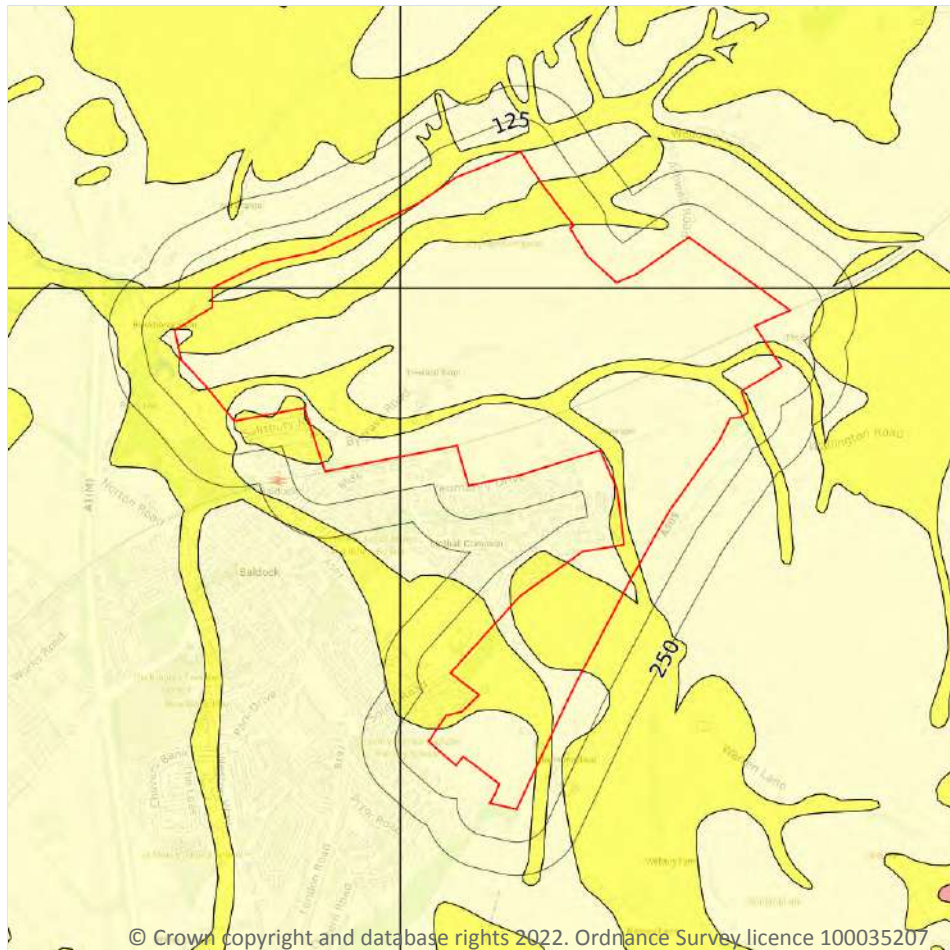
Location	Hazard rating	Details
On site	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
35m NW	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

3

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 142**

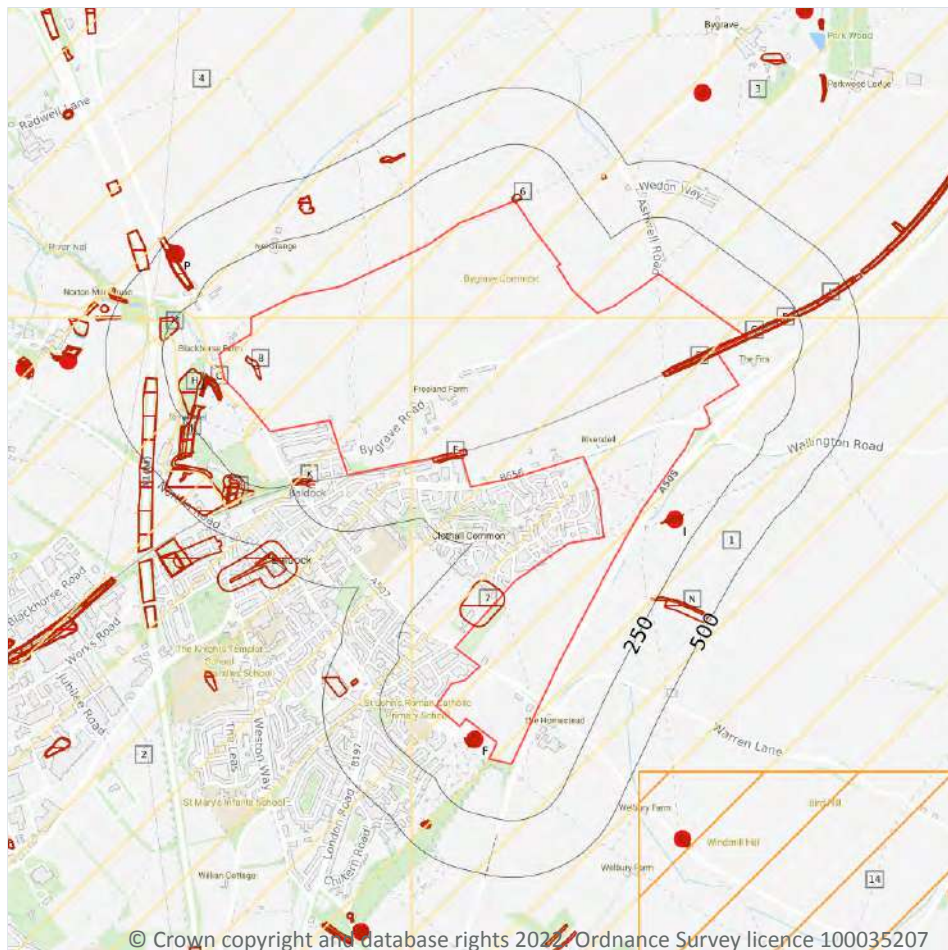
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

Location	Hazard rating	Details
On site	Very low	Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.
35m NW	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

3

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on **page 144**

ID	Location	Details	Description
F	48m SW	Name: Heath Farm Chalk Pit Address: BALDOCK, Hertfordshire Commodity: Chalk Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
I	146m SE	Name: Clothall Common Chalk Pit Address: Clothall Common, LETCHWORTH, Hertfordshire Commodity: Chalk Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
P	432m NW	Name: Roman Way Chalk Pit Address: BALDOCK, Hertfordshire Commodity: Chalk Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

63

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 144**

ID	Location	Land Use	Year of mapping	Mapping scale
5	On site	Cuttings	1951	1:10560
6	On site	Pond	1982	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
7	On site	Cemetery	1937	1:10560
8	On site	Pond	1920	1:10560
A	On site	Cuttings	1922	1:10560
A	On site	Cuttings	1896	1:10560
A	On site	Cuttings	1922	1:10560
A	On site	Cuttings	1922	1:10560
B	On site	Cuttings	1884	1:10560
B	On site	Cuttings	1938	1:10560
B	On site	Cuttings	1921	1:10560
B	On site	Cuttings	1900	1:10560
B	On site	Cuttings	1937	1:10560
B	On site	Cuttings	1881	1:10560
B	On site	Cuttings	1899	1:10560
B	On site	Cuttings	1920	1:10560
C	On site	Cuttings	1994	1:10000
C	On site	Cuttings	1981	1:10000
D	On site	Cuttings	1877	1:10560
D	On site	Cuttings	1877	1:10560
D	On site	Cuttings	1947	1:10560
E	On site	Cuttings	1920	1:10560
E	9m S	Pond	1981	1:10000
F	27m SW	Chalk Pit	1947	1:10560
F	27m SW	Chalk Pit	1921	1:10560
F	27m SW	Chalk Pit	1897	1:10560
F	27m SW	Unspecified Pit	1884	1:10560
F	27m SW	Chalk Pit	1951	1:10560
F	27m SW	Chalk Pit	1921	1:10560
G	39m SW	Pond	1984	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
G	39m SW	Pond	1978	1:10000
G	43m SW	Ponds	1938	1:10560
G	43m SW	Ponds	1921	1:10560
G	43m SW	Ponds	1900	1:10560
G	43m SW	Ponds	1937	1:10560
G	45m SW	Pond	1899	1:10560
G	83m W	Pond	1960	1:10560
H	95m W	Unspecified Heap	1984	1:10000
H	95m W	Unspecified Heap	1978	1:10000
I	111m SE	Old Chalk Pit	1938	1:10560
I	111m SE	Old Chalk Pit	1921	1:10560
I	111m SE	Old Chalk Pit	1900	1:10560
I	111m SE	Old Chalk Pit	1937	1:10560
I	111m SE	Old Chalk Pit	1899	1:10560
I	111m SE	Old Chalk Pit	1920	1:10560
I	114m SE	Unspecified Pit	1881	1:10560
I	116m SE	Unspecified Pit	1888	1:10560
I	124m SE	Unspecified Pit	1884	1:10560
I	124m SE	Unspecified Pit	1951	1:10560
J	150m SW	Ponds	1938	1:10560
J	150m SW	Pond	1900	1:10560
J	150m SW	Ponds	1921	1:10560
J	150m SW	Ponds	1937	1:10560
K	156m W	Cuttings	1884	1:10560
L	186m NE	Cuttings	1982	1:10000
L	189m NE	Cuttings	1951	1:10560
K	198m W	Cuttings	1899	1:10560
K	199m W	Cuttings	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
K	199m W	Cuttings	1921	1:10560
M	214m NW	Unspecified Pit	1984	1:10000
M	214m NW	Unspecified Pit	1978	1:10000
N	229m SE	Unspecified Ground Workings	1951	1:10560
O	240m SW	Sewage Works	1900	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

6

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 144**

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Chalk	A	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



ID	Location	Name	Commodity	Class	Likelihood
2	On site	Not available	Chalk	A	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	On site	Not available	Chalk	A	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
4	On site	Not available	Chalk	A	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
11	355m NW	Not available	Chalk	A	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
14	523m SE	Not available	Chalk	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.



18.9 Coal mining

Records on site	0
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Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

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

18.11 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

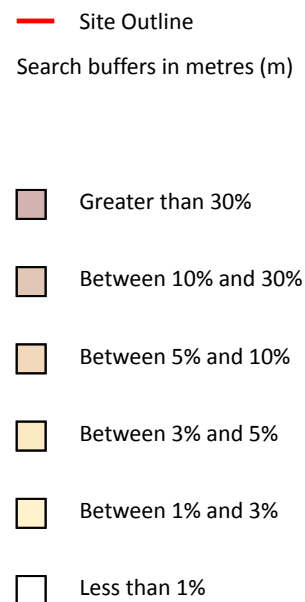
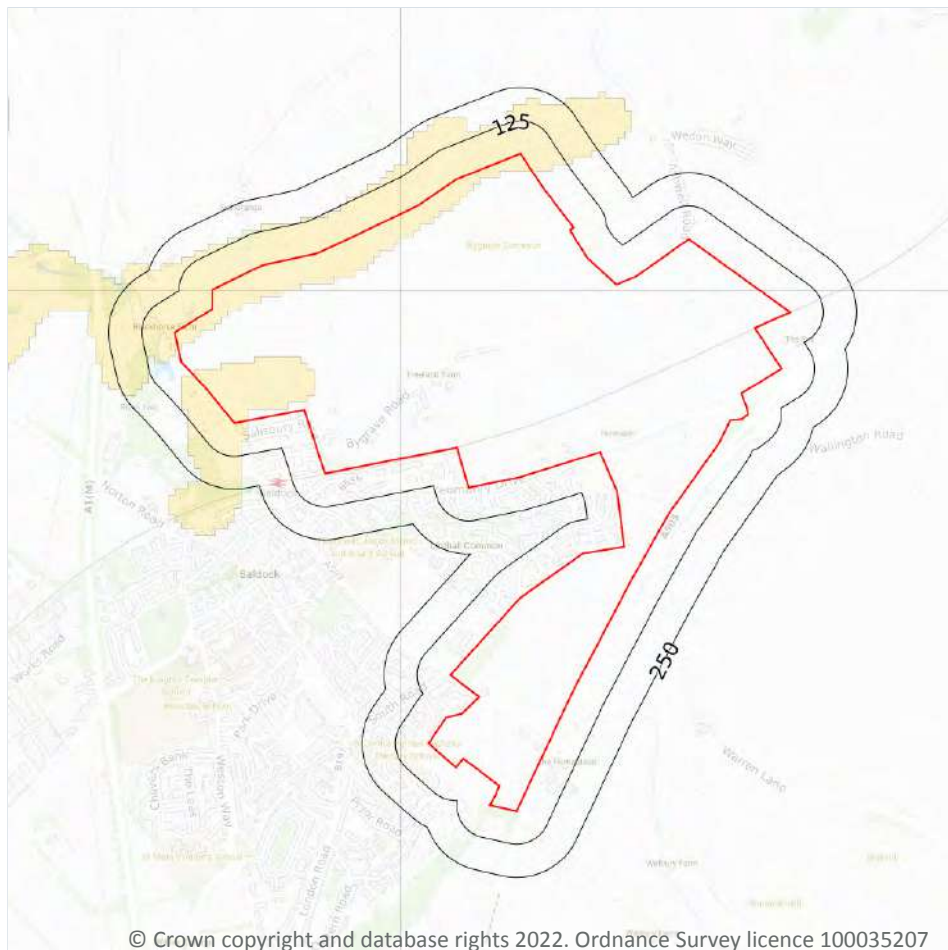
18.13 Clay mining

Records on site	0
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Generalised areas that may be affected by kaolin and ball clay extraction.

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

19 Radon



19.1 Radon

Records on site

2

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 151**

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None
On site	Less than 1%	None**



This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

139

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
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On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
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On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
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On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
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On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
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On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
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On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
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On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
3m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
5m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
12m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
12m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
18m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 mg/kg
19m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
21m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
22m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
25m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
29m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
31m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	20 - 40 mg/kg	15 - 30 mg/kg
35m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
35m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
35m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
43m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

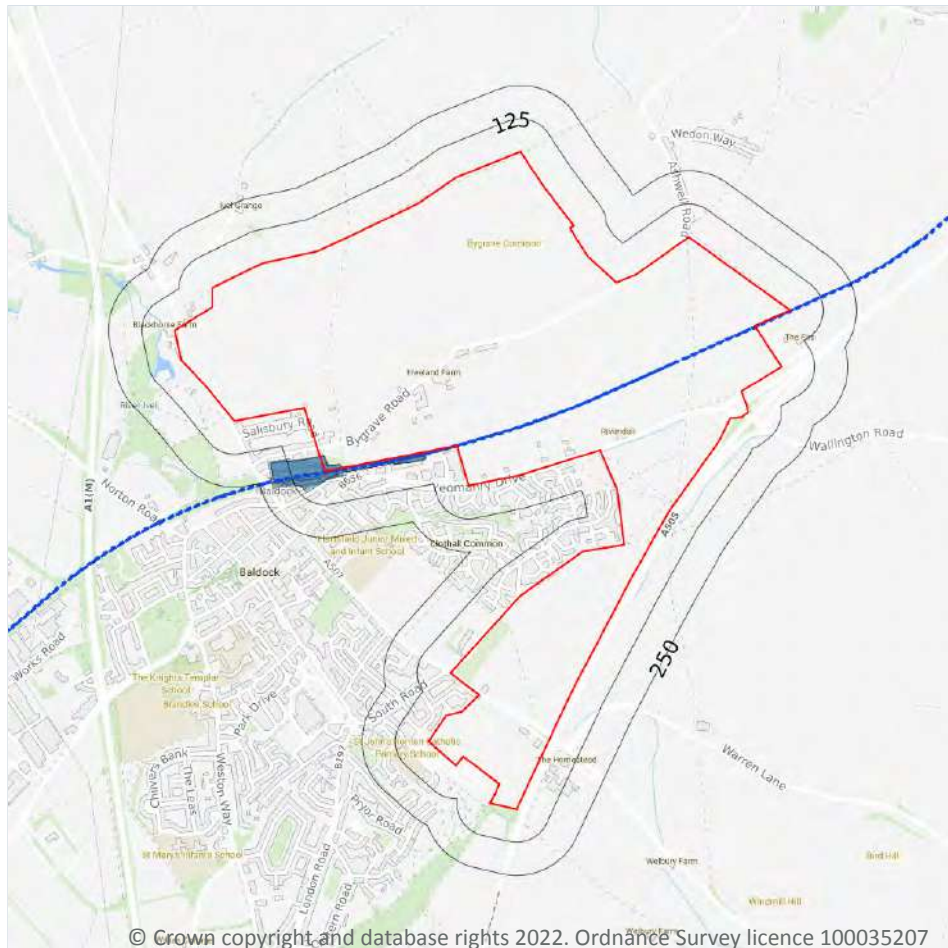
Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects



21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

26

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

Features are displayed on the Railway infrastructure and projects map on **page 162**

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1967	1250
On site	Railway Sidings	1880	2500
On site	Railway Sidings	1898	2500
On site	Railway Sidings	1922	2500
On site	Railway Sidings	1932	2500
On site	Railway Sidings	1937	2500
On site	Railway Sidings	1937	10560
On site	Railway Sidings	1938	10560
On site	Railway Sidings	1921	10560
On site	Railway Sidings	1900	10560
On site	Railway Sidings	1881	10560
On site	Railway Sidings	1884	10560
On site	Railway Sidings	1888	10560
On site	Railway Sidings	1920	10560
On site	Railway Sidings	1960	10560
On site	Railway Sidings	1899	10560
3m S	Railway Sidings	1960	10560



Location	Land Use	Year of mapping	Mapping scale
4m S	Railway Sidings	1888	10560
4m S	Railway Sidings	1937	10560
8m S	Railway Sidings	1938	10560
8m S	Railway Sidings	1921	10560
10m S	Railway Sidings	1899	10560
11m S	Railway Sidings	1972	2500
11m S	Railway Sidings	1920	10560
14m S	Railway Sidings	1920	10560
14m S	Railway Sidings	1951	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

15

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

Features are displayed on the Railway infrastructure and projects map on **page 162**



Location	Name	Type
On site	Hitchin-Cambridge Line	rail
On site	Hitchin-Cambridge Line	rail
On site	Not given	Multi Track
On site	Not given	Multi Track
On site	Not given	Multi Track
4m S	Not given	Multi Track
144m W	Not given	Multi Track
177m W	Not given	Multi Track
184m W	Not given	Multi Track
226m W	Hitchin-Cambridge Line	rail
227m W	Hitchin-Cambridge Line	rail
228m W	Not given	Multi Track
241m W	Not given	Multi Track
246m W	Hitchin-Cambridge Line	rail
246m W	Hitchin-Cambridge Line	rail

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.



21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.



APPENDIX D

SITE WALKOVER PHOTOS





Figure 1 Access point from NE of the site boundary.



Figure 2 Highest point of elevation in the northern fields (please see map)



Figure 3 Irrigation pipe located to the north west of the site used for harvesting potatoes.



Figure 4 View of the fields that are in crop NW of the site.



Figure 5 Overhead cables running E-W direction north of the site.



Figure 6 Access point to the fields to the south east of the site(See point 6 on map)



Figure 7 Fields to the south of Ashwell road which are partly in crop for harvesting potatoes and rest for barley.



Figure 8 Southern fields showing the partition between crops.



Figure 9 Overgrown, rough grassland separating the railway line and the fields that are in crop (see 7 on map).



Figure 10 Railway line separating the two fields that are in crop along with overhead live wires



Figure 11 Farm building and associated outbuilding located opposite to Bygrave road that neighbours the fields to the south of the site.





Figure 1 Rectangular Field adjacent to Royston Road that is currently in crop.



Figure 2 Rough grassland south of the Royston Road.



Figure 3 Rough Grassed areas with rough ground and uneven topography



Figure 4 Potential invasive plants in the rough grassland area



Figure 5 View of the Fields south east of the site that is currently in crop with overgrown non invasive plants bordering the boundary (see point 4 on map)



Figure 6 Access to footpath that leads to the rough grassland area north of the site. (See point 5 on map)



Figure 7 Rise in elevation to the footpath leaded to the rough grassed area.



Figure 8 Allotments adjacent to the fields that are in crop separated by barbed wire fencing to the south west of the site.



Figure 9 Land beyond the allotments with pronounced footpath.

APPENDIX E

HISTORICAL BOREHOLE LOGS

TL 23 NE 27

WILTSHIRE COUNTY COUNCIL						H L 12	
Site:- A505 BALDOCK BYPASS						Borehole No:- 28	
Borehole diameter:- 200 mm						Sheet 1 of 1	
casing diameter:- 200 mm						Ground Level:- 70.580 m.	
Location:- 525280, N 235090, ch. 14+50						Date:- 15 - 3 - 85	
Depth, m	Type	Depth, m	Water Depth, m	m.c. %	Date & Depth	Reduced Level	Description of Strata
					0.0		Topsoil
0.5	D				0.3		
1.0	D	1.0		22.5	1.0		Firm-hard fissured flaky CHALK with mainly horizontal fissures, and black spots in vertical fissures.
1.5	D						Grade IV
2.0	U100			24.5	2.0		- becoming hard and blocky
2.5	D						Grade I
3.0	D			23.1	3.0		
3.5	D						
4.0	U100			19.2	4.0		
4.5	D						
5.0	D	1.0		20.8	5.0		
	N= 48				5.5		
					6.0		End of borehole
					7.0		
					8.0		
					9.0		
					10.0		

Remarks:-

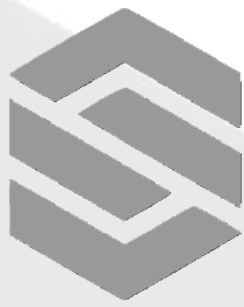
STAFFORDSHIRE COUNTY COUNCIL						TL 23 NE 43	
Project:- A505 BALDOCK BYPASS						Borehole No:- 45	
Boring diameter:- 150 mm						Sheet 1 of 1	
Casing diameter:- 150 mm						Ground Level:- 80.172 m.	
Samples & Tests.		Location:- E 526064 N 235040 ch. 22+50				Date:- 14- 12 - 84	
Depth, m.	Type	casing Depth, m	Water Depth, m	m.c. %	Date & Depth	Reduced Level	Description of Strata
					0.0		
					0.3		Topsoil
0.5	D						Firm to hard very fissured blocky CHALK with mainly horizontal fissures, and some vertical fissures with black spots
1.0	D	1.0		28.4	1.0		
1.5	D N=30						Grade III
2.25	D			28.3	2.0		
3.0	U100			29.9	3.0		
3.5	D						
4.0	D N=32			30.1	4.0		Grade II
4.5	U100						
5.0	D N=30				5.0		
5.5	U100			31.2			
6.0	D N=35				6.0		
6.5	D N=27						
					7.0		End of borehole
					8.0		
					9.0		
					10.0		

Remarks:-

TL 23 NW 51.

HERTFORDSHIRE COUNTY COUNCIL						H L 12	
Project:- A505 BALDOCK BYPASS						Borehole No:- 21	
Boring diameter:- 200 mm						Sheet 1 of 1	
Casing diameter:- 200 mm						Ground Level:- 67.897 m.	
Samples & Tests.		Location:- E 524946, N 235178 ch. 11+00				Date:- 13 - 3 - 85	
Depth, m.	Type	casing Depth, m	Water Depth, m	m.c. %	Date & Depth	Reduced Level	Description of Strata
					0.0		
					0.3		Topsoil
0.5	D			26.8			
1.0	D N = 11	1.0		26.7	1.0		Firm to hard fissured lumpy CHALK with horizontal fissures and black spots in the vertical fissures, with few fossils. Grade V
1.5	D						
2.0	U100			24.5	2.0		- becoming hard with some yellow spots
2.5	D						
3.0	N= 21			24.9	3.0		Grade IV
3.5	D						
4.0	U100	1.0		24.5	4.0		
4.5	D			21.5			
4.9	N= 21				5.0		Grade III
					5.3		End of borehole
					6.0		
					7.0		
					8.0		
					9.0		
					10.0		

Remarks:-



SHADBOLT GROUP

DESIGN | MANAGE | CONSTRUCT