

## Bow Farm

### Order Details

**Date:** 07/11/2024  
**Your ref:** 21882  
**Our Ref:** GS-YOK-F66-8GO-8BN

### Site Details

**Location:** 387589 236278  
**Area:** 64.85 ha  
**Authority:** [Tewkesbury Borough Council](#) ↗,  
[Malvern Hills District Council](#) ↗



[Summary of findings](#)

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[Aerial image](#)

[p. 6 >](#)

[OS MasterMap site plan](#)

N/A: >10ha

[Insight User Guide](#) ↗

## Summary of findings

Page	Section	<a href="#">Past land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">11 &gt;</a>	<a href="#">1.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	4	1	7	11	-
<a href="#">12 &gt;</a>	<a href="#">1.2 &gt;</a>	<a href="#">Historical tanks &gt;</a>	0	2	2	1	-
13	1.3	Historical energy features	0	0	0	0	-
<a href="#">13 &gt;</a>	<a href="#">1.4 &gt;</a>	<a href="#">Historical petrol stations &gt;</a>	0	0	0	2	-
<a href="#">14 &gt;</a>	<a href="#">1.5 &gt;</a>	<a href="#">Historical garages &gt;</a>	0	0	0	1	-
14	1.6	Historical military land	0	0	0	0	-
Page	Section	<a href="#">Past land use - un-grouped &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">15 &gt;</a>	<a href="#">2.1 &gt;</a>	<a href="#">Historical industrial land uses &gt;</a>	4	2	8	12	-
<a href="#">17 &gt;</a>	<a href="#">2.2 &gt;</a>	<a href="#">Historical tanks &gt;</a>	0	2	4	4	-
17	2.3	Historical energy features	0	0	0	0	-
<a href="#">17 &gt;</a>	<a href="#">2.4 &gt;</a>	<a href="#">Historical petrol stations &gt;</a>	0	0	0	2	-
<a href="#">18 &gt;</a>	<a href="#">2.5 &gt;</a>	<a href="#">Historical garages &gt;</a>	0	0	0	2	-
Page	Section	<a href="#">Waste and landfill &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
19	3.1	Active or recent landfill	0	0	0	0	-
19	3.2	Historical landfill (BGS records)	0	0	0	0	-
20	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
<a href="#">20 &gt;</a>	<a href="#">3.4 &gt;</a>	<a href="#">Historical landfill (EA/NRW records) &gt;</a>	0	0	0	1	-
20	3.5	Historical waste sites	0	0	0	0	-
<a href="#">20 &gt;</a>	<a href="#">3.6 &gt;</a>	<a href="#">Licensed waste sites &gt;</a>	0	0	1	0	-
<a href="#">21 &gt;</a>	<a href="#">3.7 &gt;</a>	<a href="#">Waste exemptions &gt;</a>	0	0	14	18	-
Page	Section	<a href="#">Current industrial land use &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">25 &gt;</a>	<a href="#">4.1 &gt;</a>	<a href="#">Recent industrial land uses &gt;</a>	0	1	2	-	-
26	4.2	Current or recent petrol stations	0	0	0	0	-
26	4.3	Electricity cables	0	0	0	0	-
26	4.4	Gas pipelines	0	0	0	0	-
26	4.5	Sites determined as Contaminated Land	0	0	0	0	-



26	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
27	4.7	Regulated explosive sites	0	0	0	0	-
27	4.8	Hazardous substance storage/usage	0	0	0	0	-
27	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
27	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
<b>27 &gt;</b>	<b>4.11 &gt;</b>	<b><u>Licensed pollutant release (Part A(2)/B) &gt;</u></b>	0	0	0	1	-
28	4.12	Radioactive Substance Authorisations	0	0	0	0	-
<b>28 &gt;</b>	<b>4.13 &gt;</b>	<b><u>Licensed Discharges to controlled waters &gt;</u></b>	0	0	0	1	-
28	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
29	4.15	Pollutant release to public sewer	0	0	0	0	-
29	4.16	List 1 Dangerous Substances	0	0	0	0	-
29	4.17	List 2 Dangerous Substances	0	0	0	0	-
29	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
29	4.19	Pollution inventory substances	0	0	0	0	-
30	4.20	Pollution inventory waste transfers	0	0	0	0	-
30	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	<b><u>Geology (basic) &gt;</u></b>					
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<b>31 &gt;</b>	<b>5.1 &gt;</b>	<b><u>Superficial geology (625k) &gt;</u></b>	Identified (within 500m)				
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<b>31 &gt;</b>	<b>5.2 &gt;</b>	<b><u>Bedrock geology (625k) &gt;</u></b>	Identified (within 500m)				
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Page	Section	<b><u>Hydrogeology &gt;</u></b>	On site	0-50m	50-250m	250-500m	500-2000m
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<b>32 &gt;</b>	<b>6.1 &gt;</b>	<b><u>Superficial aquifer &gt;</u></b>	Identified (within 500m)				
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<b>34 &gt;</b>	<b>6.2 &gt;</b>	<b><u>Bedrock aquifer &gt;</u></b>	Identified (within 500m)				
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<b>36 &gt;</b>	<b>6.3 &gt;</b>	<b><u>Groundwater vulnerability &gt;</u></b>	Identified (within 50m)				
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<b>39 &gt;</b>	<b>6.4 &gt;</b>	<b><u>Groundwater vulnerability- soluble rock risk &gt;</u></b>	Identified (within 0m)				
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40	6.5	Groundwater vulnerability- local information	None (within 0m)				
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<b>41 &gt;</b>	<b>6.6 &gt;</b>	<b><u>Groundwater abstractions &gt;</u></b>	0	0	5	2	4
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<b>44 &gt;</b>	<b>6.7 &gt;</b>	<b><u>Surface water abstractions &gt;</u></b>	6	2	3	7	14
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51	6.8	Potable abstractions	0	0	0	0	0
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51	6.9	Source Protection Zones	0	0	0	0	-
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52	6.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<a href="#">Hydrology &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">53 &gt;</a>	<a href="#">7.1 &gt;</a>	<a href="#">Water Network (OS MasterMap) &gt;</a>	9	53	45	-	-
<a href="#">62 &gt;</a>	<a href="#">7.2 &gt;</a>	<a href="#">Surface water features &gt;</a>	1	8	22	-	-
<a href="#">62 &gt;</a>	<a href="#">7.3 &gt;</a>	<a href="#">WFD Surface water body catchments &gt;</a>	2	-	-	-	-
<a href="#">63 &gt;</a>	<a href="#">7.4 &gt;</a>	<a href="#">WFD Surface water bodies &gt;</a>	1	0	1	-	-
<a href="#">63 &gt;</a>	<a href="#">7.5 &gt;</a>	<a href="#">WFD Groundwater bodies &gt;</a>	1	-	-	-	-
Page	Section	<a href="#">River and coastal flooding &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">64 &gt;</a>	<a href="#">8.1 &gt;</a>	<a href="#">Risk of flooding from rivers and the sea &gt;</a>	High (within 50m)				
<a href="#">65 &gt;</a>	<a href="#">8.2 &gt;</a>	<a href="#">Historical Flood Events &gt;</a>	13	3	10	-	-
<a href="#">67 &gt;</a>	<a href="#">8.3 &gt;</a>	<a href="#">Flood Defences &gt;</a>	0	2	1	-	-
67	8.4	Areas Benefiting from Flood Defences	0	0	0	-	-
67	8.5	Flood Storage Areas	0	0	0	-	-
<a href="#">68 &gt;</a>	<a href="#">8.6 &gt;</a>	<a href="#">Flood Zone 2 &gt;</a>	Identified (within 50m)				
<a href="#">69 &gt;</a>	<a href="#">8.7 &gt;</a>	<a href="#">Flood Zone 3 &gt;</a>	Identified (within 50m)				
Page	Section	<a href="#">Surface water flooding &gt;</a>					
<a href="#">70 &gt;</a>	<a href="#">9.1 &gt;</a>	<a href="#">Surface water flooding &gt;</a>	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	<a href="#">Groundwater flooding &gt;</a>					
<a href="#">72 &gt;</a>	<a href="#">10.1 &gt;</a>	<a href="#">Groundwater flooding &gt;</a>	Low (within 50m)				
Page	Section	<a href="#">Environmental designations &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">73 &gt;</a>	<a href="#">11.1 &gt;</a>	<a href="#">Sites of Special Scientific Interest (SSSI) &gt;</a>	0	0	0	0	2
74	11.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
74	11.3	Special Areas of Conservation (SAC)	0	0	0	0	0
74	11.4	Special Protection Areas (SPA)	0	0	0	0	0
74	11.5	National Nature Reserves (NNR)	0	0	0	0	0
75	11.6	Local Nature Reserves (LNR)	0	0	0	0	0
<a href="#">75 &gt;</a>	<a href="#">11.7 &gt;</a>	<a href="#">Designated Ancient Woodland &gt;</a>	0	0	0	0	3
75	11.8	Biosphere Reserves	0	0	0	0	0
76	11.9	Forest Parks	0	0	0	0	0



76	11.10	Marine Conservation Zones	0	0	0	0	0
76	11.11	Green Belt	0	0	0	0	0
76	11.12	Proposed Ramsar sites	0	0	0	0	0
76	11.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
77	11.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
77	11.15	Nitrate Sensitive Areas	0	0	0	0	0
<b>77 &gt;</b>	<b>11.16 &gt;</b>	<b><a href="#">Nitrate Vulnerable Zones &gt;</a></b>	0	0	1	1	0
<b>78 &gt;</b>	<b>11.17 &gt;</b>	<b><a href="#">SSSI Impact Risk Zones &gt;</a></b>	5	-	-	-	-
<b>80 &gt;</b>	<b>11.18 &gt;</b>	<b><a href="#">SSSI Units &gt;</a></b>	0	0	0	0	2
Page	Section	<a href="#">Visual and cultural designations &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
82	12.1	World Heritage Sites	0	0	0	-	-
83	12.2	Area of Outstanding Natural Beauty	0	0	0	-	-
83	12.3	National Parks	0	0	0	-	-
<b>83 &gt;</b>	<b>12.4 &gt;</b>	<b><a href="#">Listed Buildings &gt;</a></b>	0	0	1	-	-
84	12.5	Conservation Areas	0	0	0	-	-
84	12.6	Scheduled Ancient Monuments	0	0	0	-	-
84	12.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	<a href="#">Agricultural designations &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<b>85 &gt;</b>	<b>13.1 &gt;</b>	<b><a href="#">Agricultural Land Classification &gt;</a></b>	Grade 3b (within 250m)				
<b>87 &gt;</b>	<b>13.2 &gt;</b>	<b><a href="#">Open Access Land &gt;</a></b>	1	0	0	-	-
<b>87 &gt;</b>	<b>13.3 &gt;</b>	<b><a href="#">Tree Felling Licences &gt;</a></b>	0	1	7	-	-
<b>88 &gt;</b>	<b>13.4 &gt;</b>	<b><a href="#">Environmental Stewardship Schemes &gt;</a></b>	0	0	2	-	-
<b>88 &gt;</b>	<b>13.5 &gt;</b>	<b><a href="#">Countryside Stewardship Schemes &gt;</a></b>	0	1	3	-	-
Page	Section	<a href="#">Habitat designations &gt;</a>	On site	0-50m	50-250m	250-500m	500-2000m
<b>90 &gt;</b>	<b>14.1 &gt;</b>	<b><a href="#">Priority Habitat Inventory &gt;</a></b>	4	18	20	-	-
<b>92 &gt;</b>	<b>14.2 &gt;</b>	<b><a href="#">Habitat Networks &gt;</a></b>	1	0	1	-	-
93	14.3	Open Mosaic Habitat	0	0	0	-	-
93	14.4	Limestone Pavement Orders	0	0	0	-	-



## Recent aerial photograph



Capture Date: 23/04/2021

Site Area: 64.85ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 7 November 2024



## Recent site history - 2018 aerial photograph



Capture Date: 06/05/2018

Site Area: 64.85ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 7 November 2024



## Recent site history - 2010 aerial photograph



Capture Date: 30/08/2010

Site Area: 64.85ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 7 November 2024



## Recent site history - 2005 aerial photograph



Capture Date: 24/09/2005

Site Area: 64.85ha



Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 7 November 2024



## Recent site history - 1999 aerial photograph



Capture Date: 27/07/1999

Site Area: 64.85ha



Contact us with any questions at:

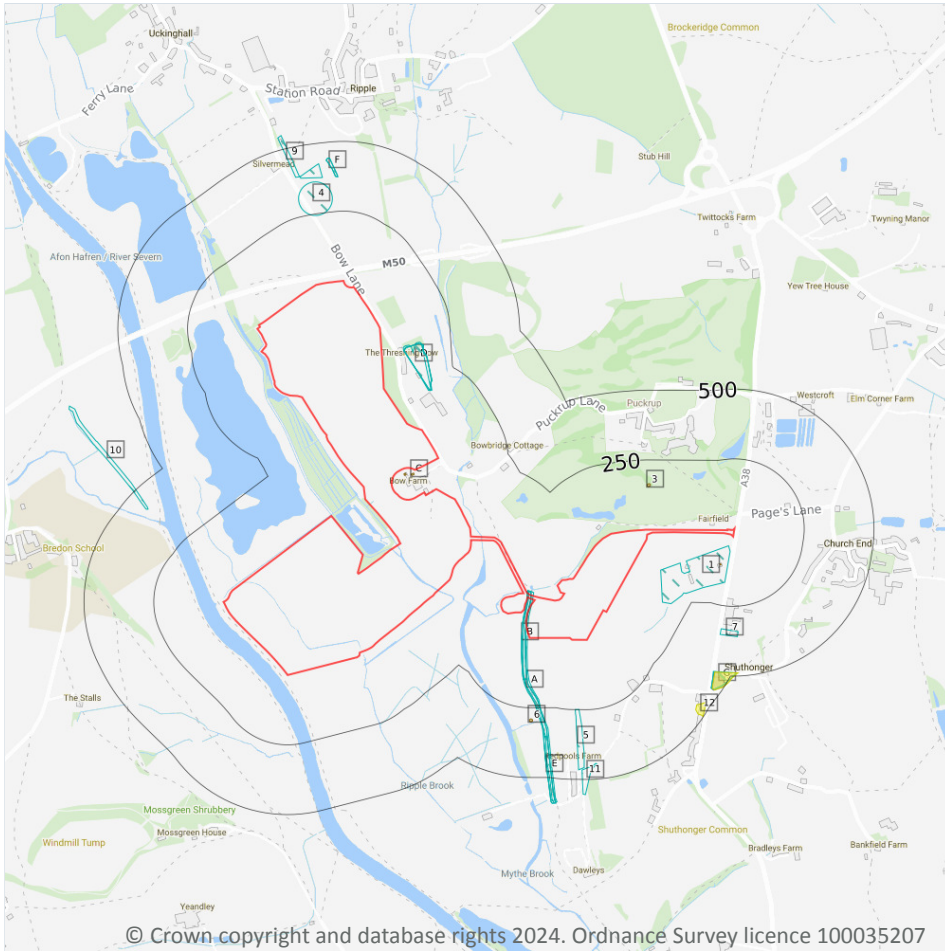
[info@groundsure.com](mailto:info@groundsure.com)

01273 257 755

Date: 7 November 2024



# 1 Past land use



**Site Outline**

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical petrol stations
- Historical garages

## 1.1 Historical industrial land uses

**Records within 500m** **23**

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 11](#) >

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Pit	1924	1026699



ID	Location	Land use	Dates present	Group ID
A	On site	Cuttings	1954	1155099
B	On site	Cuttings	1900	1145815
B	On site	Cuttings	1924	1152474
1	37m E	Nursery	1969 - 1994	1140396
D	79m N	Unspecified Pit	1883	1026698
D	81m N	Unspecified Old Quarry	1900	1146651
D	81m N	Unspecified Old Quarry	1924	1176270
D	81m N	Unspecified Old Quarry	1954	1105753
A	147m SE	Cuttings	1924	1108284
4	244m N	Gravel Pit	1883	1046608
5	250m SE	Cuttings	1883	1010994
7	333m E	General Post Office Repeater Station	1969 - 1994	1169552
E	353m SE	Cuttings	1900	1155576
E	353m SE	Cuttings	1924	1174038
F	374m N	Unspecified Pit	1930	1113171
F	374m N	Unspecified Pit	1903	1144015
8	376m N	Gravel Pit	1884	1046585
9	391m N	Cuttings	1884	1010992
10	420m W	Unspecified Heap	1924	1039320
G	439m SE	Garage	1994	1025970
G	439m SE	Filling Stations	1969	1026109
11	444m SE	Unspecified Ground Workings	1883	1016934

This data is sourced from Ordnance Survey / Groundsure.

## 1.2 Historical tanks

Records within 500m

5

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding



or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 11 >](#)

ID	Location	Land use	Dates present	Group ID
C	13m NE	Unspecified Tank	1968	158184
C	18m NE	Unspecified Tank	1994	158175
2	107m E	Unspecified Tank	1968	158185
3	155m E	Unspecified Tank	1968 - 1991	170636
6	290m SE	Unspecified Tank	1885 - 1923	168541

*This data is sourced from Ordnance Survey / Groundsure.*

### 1.3 Historical energy features

**Records within 500m**

**0**

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

### 1.4 Historical petrol stations

**Records within 500m**

**2**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 11 >](#)

ID	Location	Land use	Dates present	Group ID
G	444m SE	Filling Station	1969	1795
12	457m SE	Filling Station	1969	1796

*This data is sourced from Ordnance Survey / Groundsure.*



## 1.5 Historical garages

Records within 500m

1

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 11 >](#)

ID	Location	Land use	Dates present	Group ID
G	441m SE	Garage	1987 - 1991	33648

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.6 Historical military land

Records within 500m

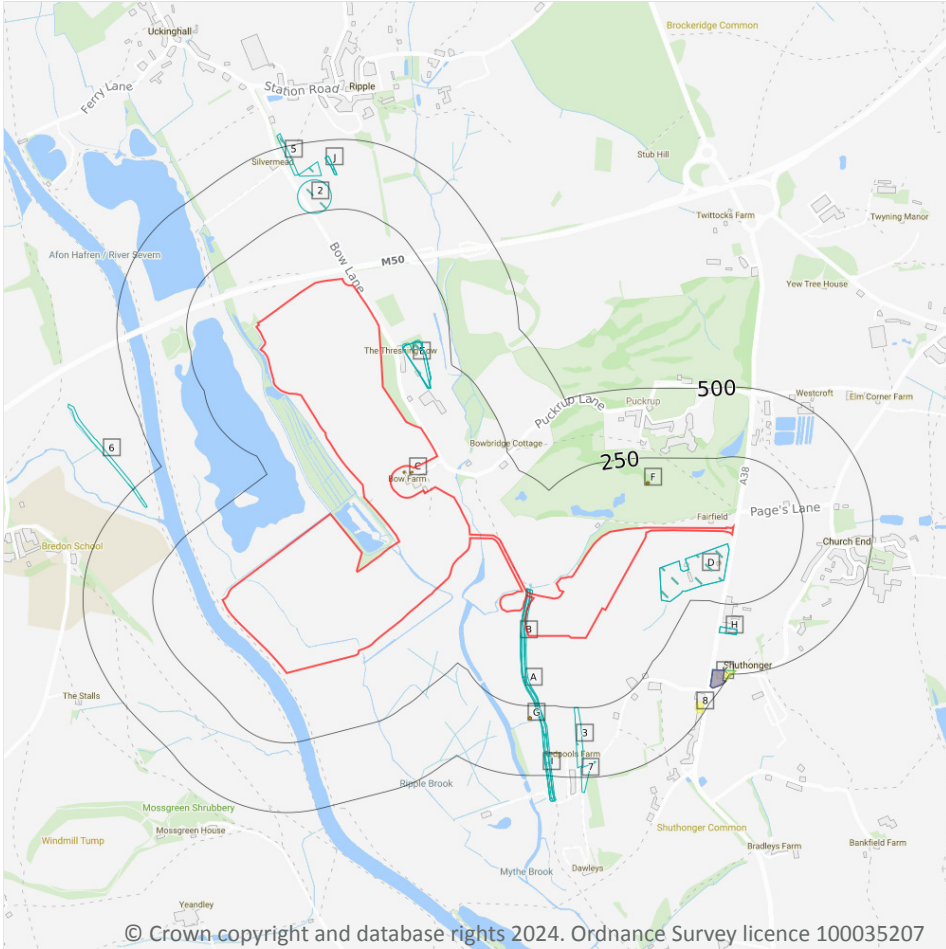
0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

*This data is sourced from Ordnance Survey / Groundsure / other sources.*







## 2 Past land use - un-grouped



**Site Outline**

Search buffers in metres (m)

-  Historical industrial land uses
-  Historical tanks
-  Historical petrol stations
-  Historical garages

### 2.1 Historical industrial land uses

Records within 500m

26

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 15 >](#)

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Pit	1924	1026699
A	On site	Cuttings	1954	1155099
B	On site	Cuttings	1924	1152474



ID	Location	Land Use	Date	Group ID
<b>B</b>	<b>On site</b>	<b>Cuttings</b>	<b>1900</b>	<b>1145815</b>
D	37m E	Nursery	1994	1140396
D	37m E	Nursery	1969	1140396
E	79m N	Unspecified Pit	1883	1026698
E	81m N	Unspecified Old Quarry	1924	1176270
E	81m N	Unspecified Old Quarry	1924	1176270
E	81m N	Unspecified Old Quarry	1900	1146651
E	81m N	Unspecified Old Quarry	1954	1105753
A	147m SE	Cuttings	1924	1108284
2	244m N	Gravel Pit	1883	1046608
3	250m SE	Cuttings	1883	1010994
H	333m E	General Post Office Repeater Station	1994	1169552
H	333m E	General Post Office Repeater Station	1969	1169552
I	353m SE	Cuttings	1924	1174038
I	353m SE	Cuttings	1900	1155576
J	374m N	Unspecified Pit	1903	1144015
J	374m N	Unspecified Pit	1930	1113171
4	376m N	Gravel Pit	1884	1046585
5	391m N	Cuttings	1884	1010992
6	420m W	Unspecified Heap	1924	1039320
K	439m SE	Garage	1994	1025970
K	439m SE	Filling Stations	1969	1026109
7	444m SE	Unspecified Ground Workings	1883	1016934

*This data is sourced from Ordnance Survey / Groundsure.*



## 2.2 Historical tanks

Records within 500m

10

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 15 >](#)

ID	Location	Land Use	Date	Group ID
C	13m NE	Unspecified Tank	1968	158184
C	18m NE	Unspecified Tank	1994	158175
1	107m E	Unspecified Tank	1968	158185
F	155m E	Unspecified Tank	1988	170636
F	155m E	Unspecified Tank	1991	170636
F	156m E	Unspecified Tank	1968	170636
G	290m SE	Unspecified Tank	1885	168541
G	290m SE	Unspecified Tank	1902	168541
G	290m SE	Unspecified Tank	1902	168541
G	290m SE	Unspecified Tank	1923	168541

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.3 Historical energy features

Records within 500m

0

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.4 Historical petrol stations

Records within 500m

2

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.



Features are displayed on the Past land use - un-grouped map on [page 15 >](#)

ID	Location	Land Use	Date	Group ID
K	444m SE	Filling Station	1969	1795
8	457m SE	Filling Station	1969	1796

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.5 Historical garages

**Records within 500m**

**2**

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

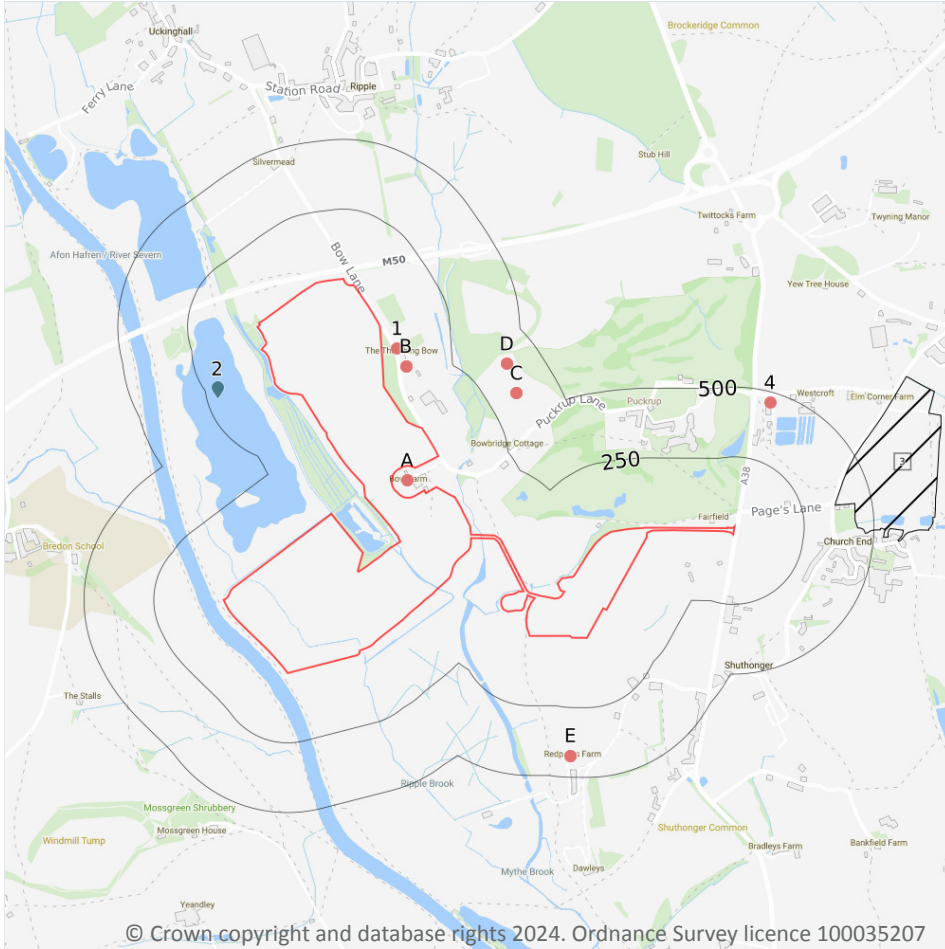
Features are displayed on the Past land use - un-grouped map on [page 15 >](#)

ID	Location	Land Use	Date	Group ID
K	441m SE	Garage	1987	33648
K	441m SE	Garage	1991	33648

*This data is sourced from Ordnance Survey / Groundsure.*



## 3 Waste and landfill



### 3.1 Active or recent landfill

**Records within 500m** **0**

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

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

### 3.2 Historical landfill (BGS records)

**Records within 500m** **0**

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

*This data is sourced from the British Geological Survey.*

### 3.3 Historical landfill (LA/mapping records)

Records within 500m

0

Landfill sites identified from Local Authority records and high detail historical mapping.

*This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.*

### 3.4 Historical landfill (EA/NRW records)

Records within 500m

1

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on [page 19 >](#)

ID	Location	Details		
3	369m E	Site Address: Twyning Pit, Church End Farm, Twyning, Tewkesbury, Gloucestershire Licence Holder Address: -	Waste Licence: - Site Reference: 139 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: Western Aggregates Limited First Recorded - Last Recorded: -

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

### 3.5 Historical waste sites

Records within 500m

0

Waste site records derived from Local Authority planning records and high detail historical mapping.

*This data is sourced from Ordnance Survey/Groundsure and Local Authority records.*

### 3.6 Licensed waste sites

Records within 500m

1

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 19 >](#)



ID	Location	Details		
2	208m NW	Site Name: Ryall Quarry Site Address: Ryall Quarry, Tewkesbury Road, Ryall, Upton -on- Severn, Worcestershire, WR8 0PU Correspondence Address: -	Type of Site: Mining Waste Operations Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CEM063 EPR reference: EA/EPR/YP3199VG/V002 Operator: Cemex U K Materials Limited Waste Management licence No: 102783 Annual Tonnage: 0	Issue Date: 02/09/2011 Effective Date: - Modified: 18/09/2015 Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Modified

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

### 3.7 Waste exemptions

<b>Records within 500m</b>	<b>32</b>
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 19 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	52m NE	Bow Farm, Bow Lane, Ripple, Tewkesbury, G120 6ew	WEX029780	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	52m NE	Bow Farm, Bow Lane, Ripple, Tewkesbury, G120 6ew	WEX029780	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
1	55m N	Pad View, Bow Lane, Ripple, Tewkesbury, G120 6ew	WEX060784	Using waste exemption	On a farm	Use of waste in construction
B	82m N	Bow Cottage, Bow Lane, Ripple, Tewkesbury, G120 6ew	WEX311436	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	82m N	Bow Cottage, Bow Lane, Ripple, Tewkesbury, G120 6ew	WEX311436	Disposing of waste exemption	On a farm	Disposal by incineration
B	82m N	Bow Cottage, Bow Lane, Ripple, Tewkesbury, G120 6ew	WEX311436	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit



ID	Location	Site	Reference	Category	Sub-Category	Description
B	82m N	Bow Cottage, Bow Lane, Ripple, Tewkesbury, Gl20 6ew	WEX181318	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	82m N	Bow Cottage, Bow Lane, Ripple, Tewkesbury, Gl20 6ew	WEX181318	Disposing of waste exemption	On a farm	Disposal by incineration
B	82m N	Bow Cottage, Bow Lane, Ripple, Tewkesbury, Gl20 6ew	WEX181318	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	82m N	Bow Cottage, Bow Lane, Ripple, Tewkesbury, Gl20 6ew	WEX022315	Disposing of waste exemption	On a farm	Disposal by incineration
B	82m N	Bow Cottage, Bow Lane, Ripple, Tewkesbury, Gl20 6ew	WEX022315	Disposing of waste exemption	On a farm	Burning waste in the open
B	84m N	Bow Cottage Bow Lane Tewkesbury Gloucestershire Gl20 6ew	EPR/FH0771H Y/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
B	84m N	Bow Cottage Bow Lane Tewkesbury Gloucestershire Gl20 6ew	EPR/FH0771H Y/A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
B	84m N	Bow Cottage Bow Lane Tewkesbury Gloucestershire Gl20 6ew	EPR/FH0771H Y/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
C	352m NE	Towbury Hill Puckrup Tewkesbury Gloucestershire Gl20 6el	EPR/RH0475N W/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
C	352m NE	Towbury Hill Puckrup Tewkesbury Gloucestershire Gl20 6el	EPR/RH0475N W/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
C	352m NE	Towbury Hill Puckrup Tewkesbury Gloucestershire Gl20 6el	EPR/RH0475N W/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters



ID	Location	Site	Reference	Category	Sub-Category	Description
D	379m NE	2 Birch Court Blackpole Road Worcester Wr3 8sg	EPR/GE5551C H/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
D	379m NE	Draycott Farm Yeovil Somerset Ba22 8ee	EPR/JF0008EF/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
E	425m SE	Red Pools Farm, Shuthonger, Tewkesbury, Gl20 6eq	WEX394445	Using waste exemption	On a farm	Use of waste in construction
E	425m SE	Red Pools Farm, Shuthonger, Tewkesbury, Gl20 6eq	WEX195103	Using waste exemption	On a farm	Use of waste in construction
E	425m SE	Red Pools Farm, Shuthonger, Tewkesbury, Gl20 6eq	WEX195103	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
E	425m SE	Red Pools Farm, Shuthonger, Tewkesbury, Gl20 6eq	WEX195103	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
E	425m SE	Red Pools Farm, Shuthonger, Tewkesbury, Gl20 6eq	WEX195103	Disposing of waste exemption	On a farm	Burning waste in the open
E	425m SE	Red Pools Farm Tewkesbury Gloucestershire Gl20 6eq	EPR/UE5284LC /A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
E	425m SE	Red Pools Farm Tewkesbury Gloucestershire Gl20 6eq	EPR/UE5284LC /A001	Disposing of waste exemption	Agricultural waste only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
E	425m SE	Red Pools Farm Tewkesbury Gloucestershire Gl20 6eq	EPR/UE5284LC /A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
E	425m SE	Red Pools Farm Tewkesbury Gloucestershire Gl20 6eq	EPR/UE5284LC /A001	Using waste exemption	Agricultural waste only	Spreading waste on agricultural land to confer benefit
E	425m SE	Red Pools Farm Tewkesbury Gloucestershire Gl20 6eq	EPR/UE5284LC /A001	Treating waste exemption	Agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

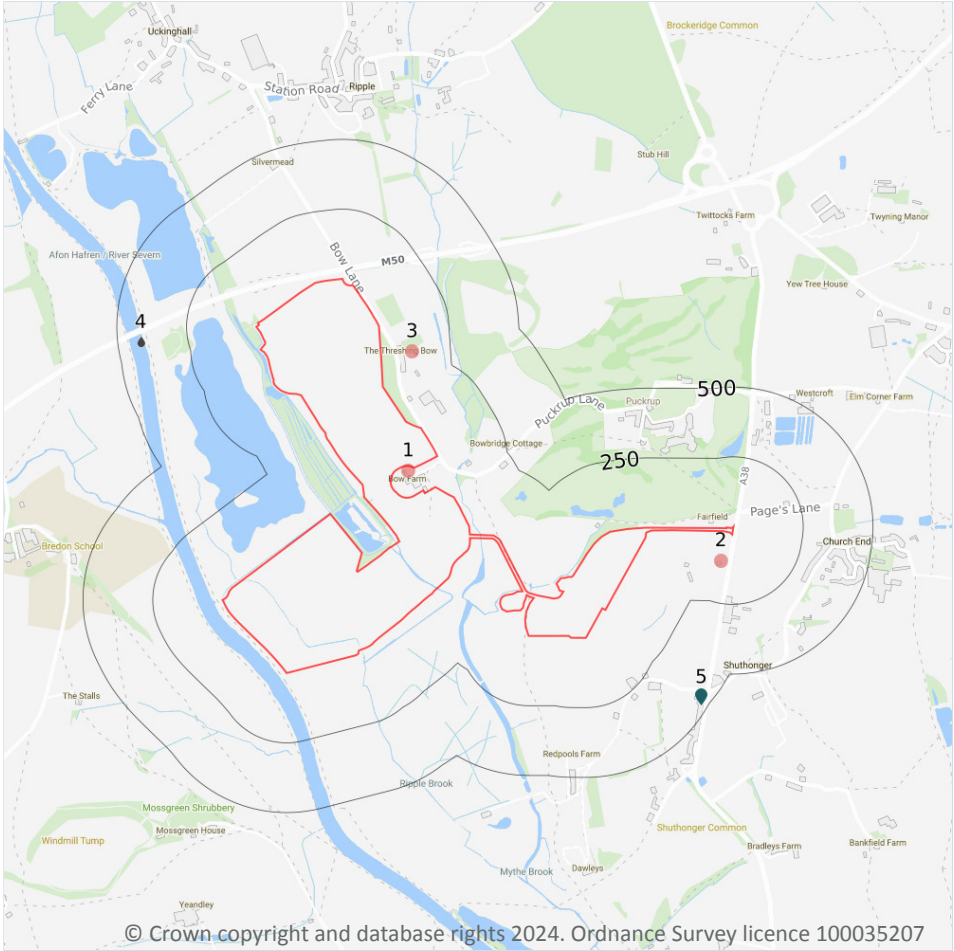


ID	Location	Site	Reference	Category	Sub-Category	Description
E	425m SE	Red Pools Farm Tewkesbury Gloucestershire GL20 6eq	EPR/UE5284LC /A001	Using waste exemption	Agricultural waste only	Use of waste in construction
E	425m SE	Red Pools Farm Tewkesbury Gloucestershire GL20 6eq	EPR/UE5284LC /A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose
4	460m E	Hill View, Cherry Orchard Lane, Twyning, Tewkesbury, GL20 6jh	WEX408754	Using waste exemption	Not on a farm	Use of waste in construction

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



## 4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- ◆ Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters

### 4.1 Recent industrial land uses

**Records within 250m** **3**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 25](#) >

ID	Location	Company	Address	Activity	Category
1	16m NE	Tank	Worcestershire, GL20	Tanks (Generic)	Industrial Features
2	101m E	Tank	Gloucestershire, GL20	Tanks (Generic)	Industrial Features
3	112m N	Solar Panels	Worcestershire, GL20	Energy Production	Industrial Features

*This data is sourced from Ordnance Survey.*

## 4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

*This data is sourced from Experian.*

## 4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

## 4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

## 4.5 Sites determined as Contaminated Land

Records within 500m

0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

*This data is sourced from Local Authority records.*

## 4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

*This data is sourced from the Health and Safety Executive.*

## 4.7 Regulated explosive sites

Records within 500m

0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

*This data is sourced from the Health and Safety Executive.*

## 4.8 Hazardous substance storage/usage

Records within 500m

0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

*This data is sourced from Local Authority records.*

## 4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

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

## 4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

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

## 4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

1

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 25 >](#)

ID	Location	Address	Details	
5	464m SE	BP Ericksons Shuthonger Services, Worcester Rd, Cheltenham, GL20 6EH	Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

*This data is sourced from Local Authority records.*

## 4.12 Radioactive Substance Authorisations

**Records within 500m**

**0**

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

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

## 4.13 Licensed Discharges to controlled waters

**Records within 500m**

**1**

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on [page 25 >](#)

ID	Location	Address	Details	
4	419m NW	RIPPLE QUARRY, LAND BENEATH M5 MOTORWAY, RIPPLE, WORCESTERSHIRE	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: S/08/25860/T Permit Version: 1 Receiving Water: RIVER SEVERN	Status: SURRENDERED UNDER EPR 2010 Issue date: 26/11/2001 Effective Date: 26/11/2001 Revocation Date: 19/06/2018

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

## 4.14 Pollutant release to surface waters (Red List)

**Records within 500m**

**0**

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

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



#### 4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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

#### 4.16 List 1 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

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

#### 4.17 List 2 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

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

#### 4.18 Pollution Incidents (EA/NRW)

Records within 500m

0

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

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

#### 4.19 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*



## 4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*

## 4.21 Pollution inventory radioactive waste

Records within 500m

0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*



## 5 Geology (basic)

### 5.1 Superficial geology (625k)

Records within 500m

2

Generalised geology data based on BGS's published poster maps of the UK (North and South). Superficial related themes digitised from 1977 first edition Quaternary map (North and South).

Location	Lex code	Description	Rock type
On site	RTDU-SAGR	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	SAND AND GRAVEL
On site	ALV-CLSS	ALLUVIUM	CLAY, SILT AND SAND

*This data is sourced from the British Geological Survey.*

### 5.2 Bedrock geology (625k)

Records within 500m

2

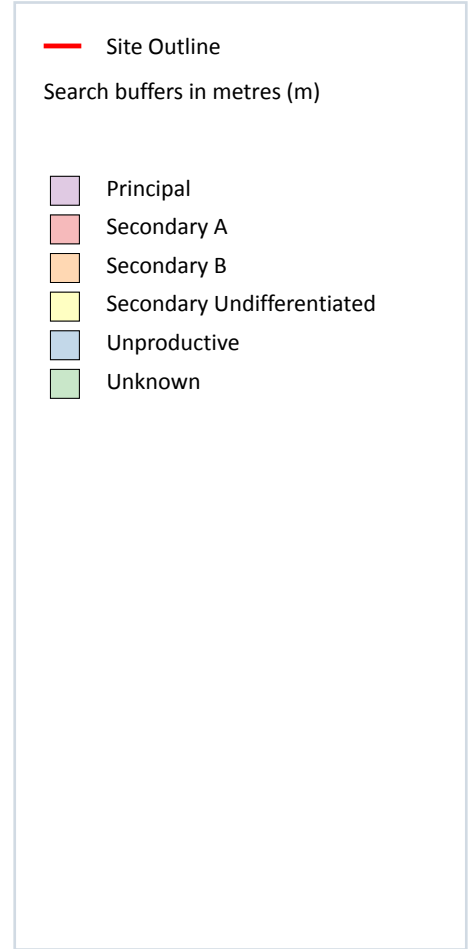
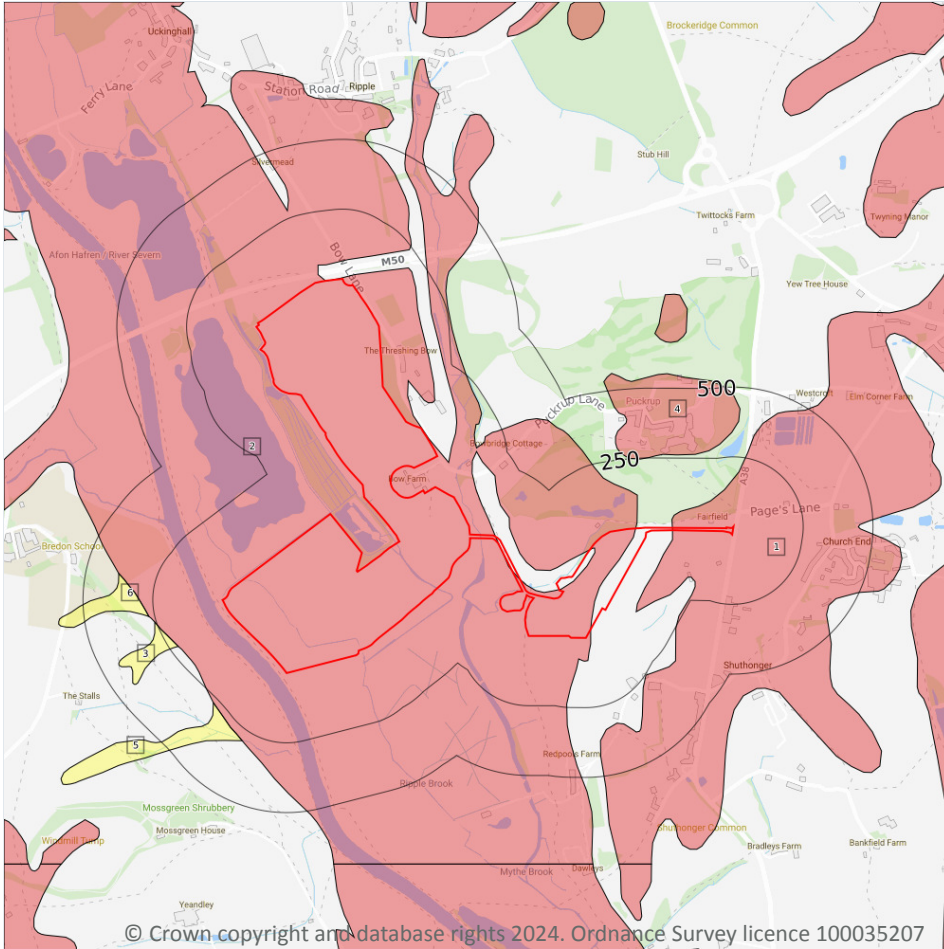
Generalised geology data based on BGS's published poster maps of the UK (North and South). Bedrock related themes created through generalisation of 1:50,000 data.

Location	Lex code	Description	Rock type
On site	LI-MSLS	LIAS GROUP	MUDSTONE, SILTSTONE, LIMESTONE AND SANDSTONE
On site	TRIA-MDSS	TRIASSIC ROCKS (UNDIFFERENTIATED)	MUDSTONE, SILTSTONE AND SANDSTONE

*This data is sourced from the British Geological Survey.*



## 6 Hydrogeology - Superficial aquifer



### 6.1 Superficial aquifer

Records within 500m

6

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 32](#) >

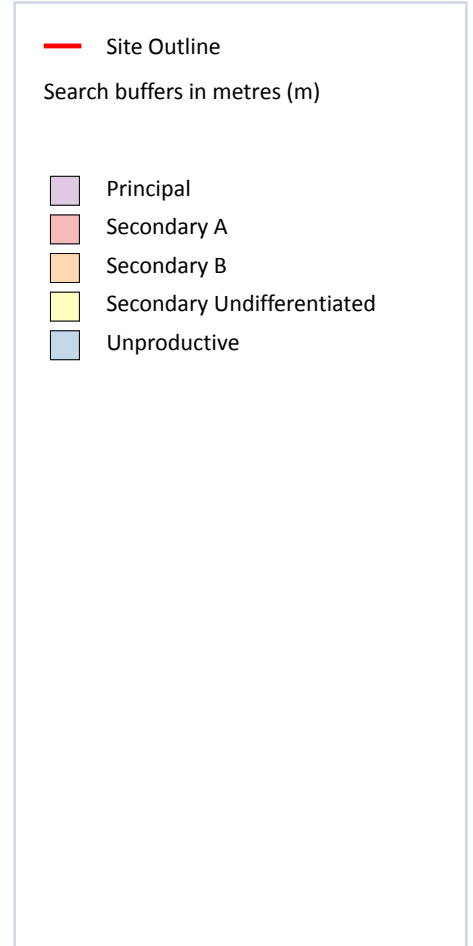
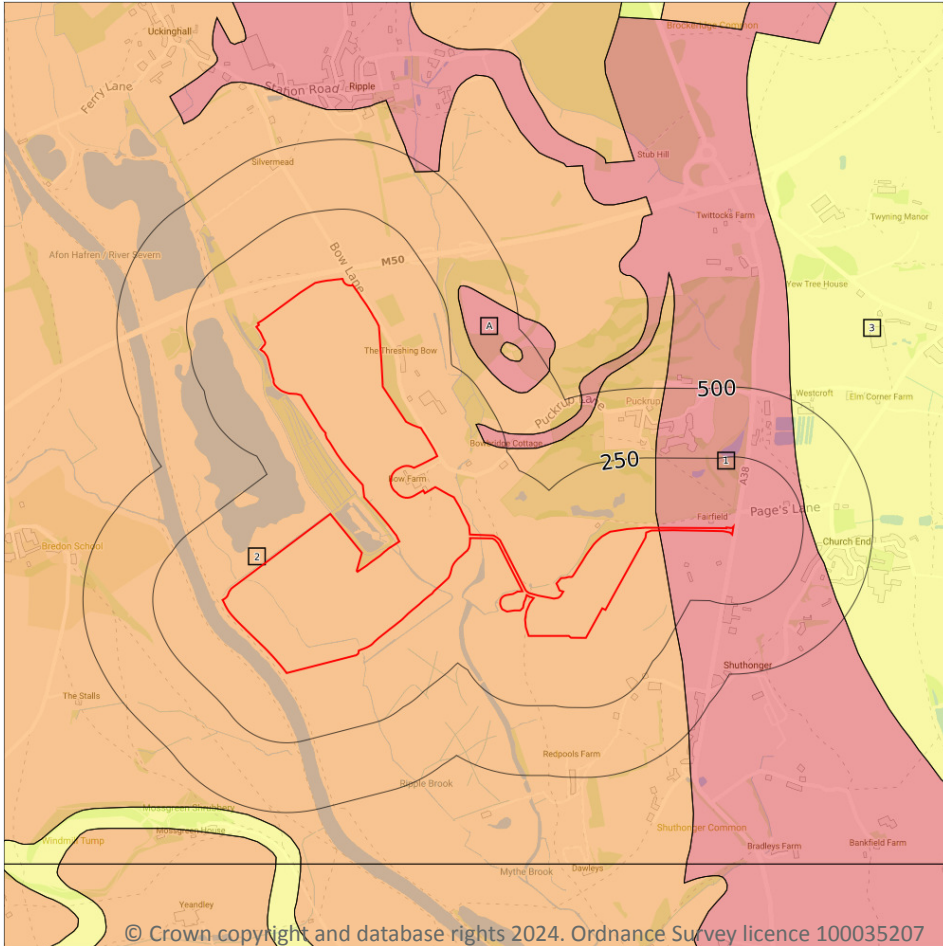
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	220m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	246m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	269m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
6	270m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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



## Bedrock aquifer



### 6.2 Bedrock aquifer

Records within 500m

5

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 34](#) >

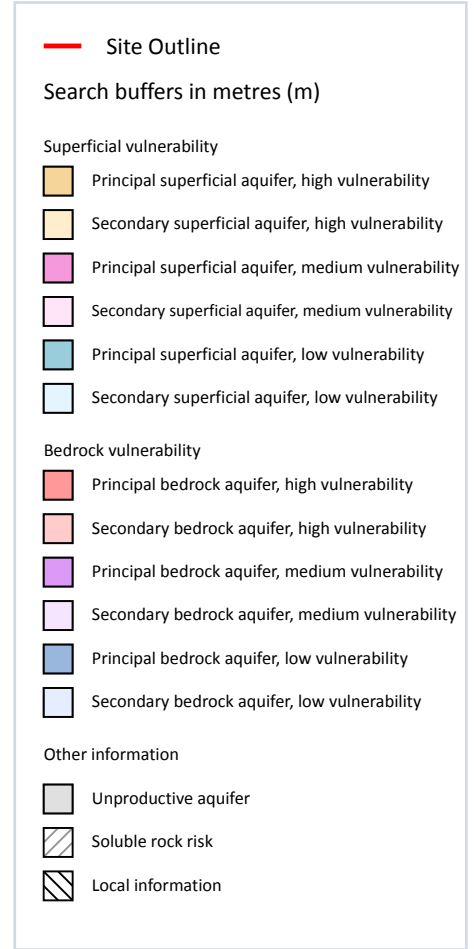
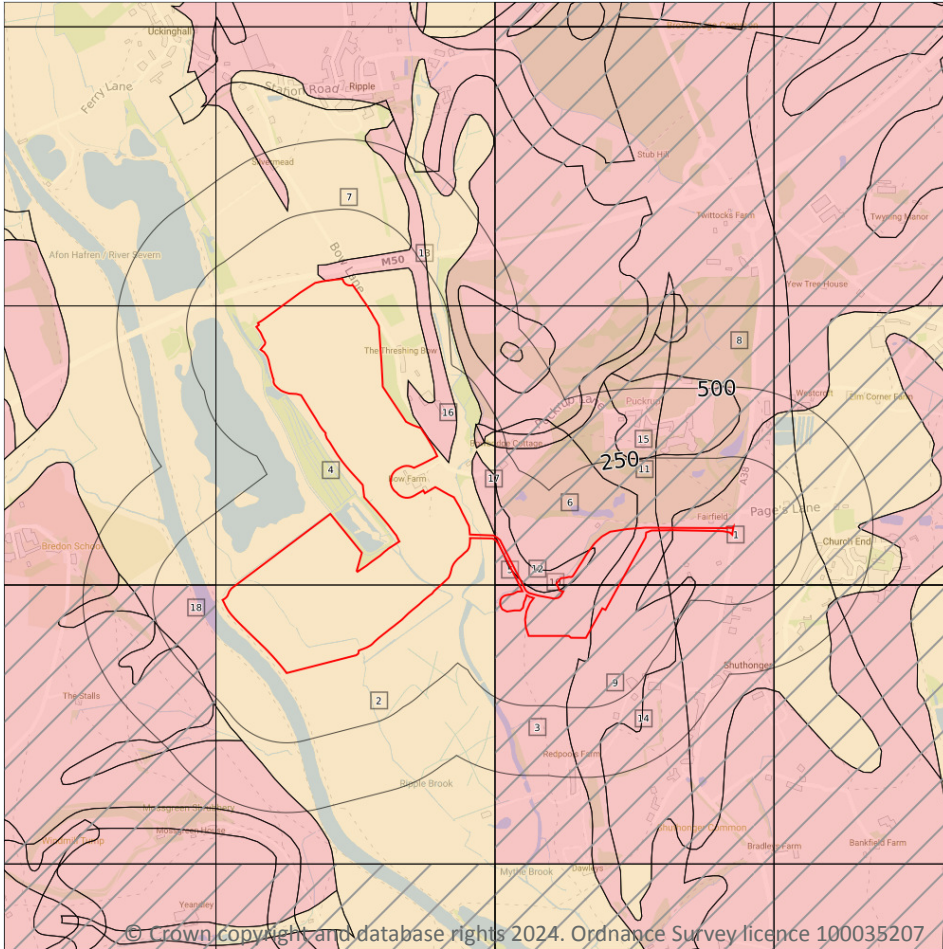
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

ID	Location	Designation	Description
3	262m E	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
A	300m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
A	395m NE	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

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



## Groundwater vulnerability



### 6.3 Groundwater vulnerability

Records within 50m

16

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 36](#) >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	<b>Summary Classification:</b> Secondary bedrock aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class:</b> Intermediate <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Medium <b>Aquifer type:</b> Secondary <b>Thickness:</b> <3m <b>Patchiness value:</b> <90% <b>Recharge potential:</b> High	<b>Vulnerability:</b> High <b>Aquifer type:</b> Secondary <b>Flow mechanism:</b> Well connected fractures
2	On site	<b>Summary Classification:</b> Secondary superficial aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class:</b> High <b>Infiltration value:</b> >70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> High <b>Aquifer type:</b> Secondary <b>Thickness:</b> <3m <b>Patchiness value:</b> <90% <b>Recharge potential:</b> Medium	<b>Vulnerability:</b> High <b>Aquifer type:</b> Secondary <b>Flow mechanism:</b> Well connected fractures
3	On site	<b>Summary Classification:</b> Secondary bedrock aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class:</b> Intermediate <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Medium <b>Aquifer type:</b> Secondary <b>Thickness:</b> <3m <b>Patchiness value:</b> <90% <b>Recharge potential:</b> High	<b>Vulnerability:</b> High <b>Aquifer type:</b> Secondary <b>Flow mechanism:</b> Well connected fractures
4	On site	<b>Summary Classification:</b> Secondary superficial aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class:</b> High <b>Infiltration value:</b> >70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> High <b>Aquifer type:</b> Secondary <b>Thickness:</b> <3m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> High	<b>Vulnerability:</b> High <b>Aquifer type:</b> Secondary <b>Flow mechanism:</b> Well connected fractures
5	On site	<b>Summary Classification:</b> Secondary bedrock aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class:</b> Intermediate <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Medium <b>Aquifer type:</b> Secondary <b>Thickness:</b> <3m <b>Patchiness value:</b> <90% <b>Recharge potential:</b> High	<b>Vulnerability:</b> High <b>Aquifer type:</b> Secondary <b>Flow mechanism:</b> Well connected fractures
6	On site	<b>Summary Classification:</b> Secondary bedrock aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class:</b> Intermediate <b>Infiltration value:</b> 40-70% <b>Dilution value:</b> <300mm/year	<b>Vulnerability:</b> Medium <b>Aquifer type:</b> Secondary <b>Thickness:</b> <3m <b>Patchiness value:</b> <90% <b>Recharge potential:</b> High	<b>Vulnerability:</b> High <b>Aquifer type:</b> Secondary <b>Flow mechanism:</b> Well connected fractures



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



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
16	2m NE	Summary Classification: Secondary 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: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
17	3m E	Summary Classification: Secondary 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: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
18	24m SW	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40- 70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

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

## 6.4 Groundwater vulnerability- soluble rock risk

### Records on site

2

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
14	<b>Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.</b>	<b>32.0%</b>
15	<b>Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.</b>	<b>40.0%</b>

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



## 6.5 Groundwater vulnerability- local information

Records on site

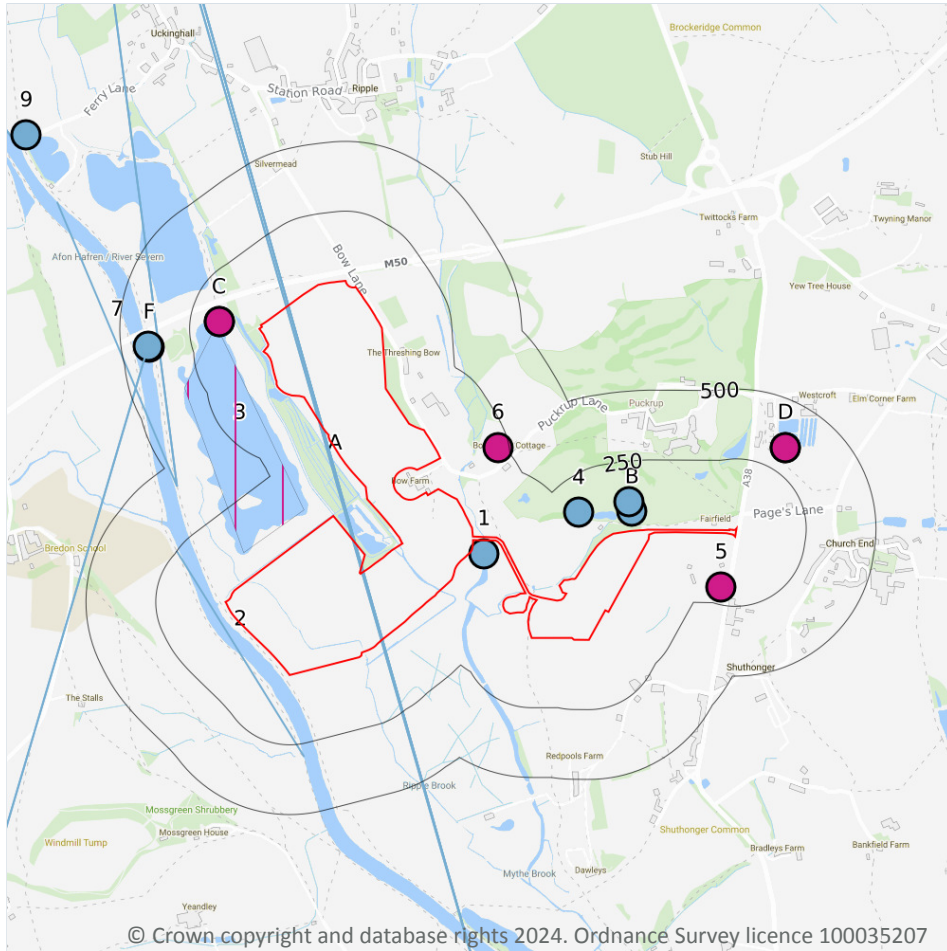
0

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

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



## Abstractions and Source Protection Zones



### 6.6 Groundwater abstractions

Records within 2000m

11

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 41](#) >

ID	Location	Details	
3	80m W	Status: Active Licence No: 18/54/08/0526/R01 Details: Spray Irrigation - Direct Direct Source: Groundwater Midlands Region Point: RYALL HOUSE FARM,RYALL - LAGOON Data Type: Poly4 Name: RYALL HOUSE LIMITED Easting: 386990 Northing: 236938	Annual Volume (m <sup>3</sup> ): 30000 Max Daily Volume (m <sup>3</sup> ): 1600 Original Application No: NPS/WR/021305 Original Start Date: 01/04/2017 Expiry Date: 31/03/2034 Issue No: 1 Version Start Date: 01/04/2017 Version End Date: -
C	147m NW	Status: Historical Licence No: 18/54/08/0526 Details: Spray Irrigation - Direct Direct Source: Groundwater Midlands Region Point: RYALL HOUSE FARM,RYALL - LAGOON Data Type: Point Name: RYALL HOUSE LIMITED Easting: 387000 Northing: 236950	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 15/10/1998 Expiry Date: 31/03/2008 Issue No: 100 Version Start Date: 15/10/1998 Version End Date: -
C	147m NW	Status: Historical Licence No: 18/54/08/0526/1 Details: Spray Irrigation - Direct Direct Source: Groundwater Midlands Region Point: RYALL HOUSE FARM,RYALL - LAGOON Data Type: Point Name: RYALL HOUSE LIMITED Easting: 387000 Northing: 236950	Annual Volume (m <sup>3</sup> ): 30000 Max Daily Volume (m <sup>3</sup> ): 1600 Original Application No: - Original Start Date: 19/08/2004 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 19/08/2004 Version End Date: -
5	187m E	Status: Historical Licence No: 18/54/08/0284 Details: Spray Irrigation - Direct Direct Source: Groundwater Midlands Region Point: CHURCH END NURSERIES, TWYNING - WELL Data Type: Point Name: MARTINEAU Easting: 388800 Northing: 236000	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 01/11/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/11/1966 Version End Date: -
6	210m NE	Status: Historical Licence No: 18/54/08/0268 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: BOWBRIDGE FARM - WELL Data Type: Point Name: WIGAN Easting: 388000 Northing: 236500	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 07/01/1974 Version End Date: -



ID	Location	Details	
D	340m E	Status: Active Licence No: 18/54/08/0518 Details: Make-Up Or Top Up Water Direct Source: Groundwater Midlands Region Point: HILLVIEW NURSERIES, TWYNING - BOREHOLE Data Type: Point Name: HILLVIEW NURSERIES Easting: 389030 Northing: 236500	Annual Volume (m <sup>3</sup> ): 8500 Max Daily Volume (m <sup>3</sup> ): 40 Original Application No: - Original Start Date: 15/02/1996 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
D	340m E	Status: Active Licence No: 18/54/08/0518 Details: Spray Irrigation - Direct Direct Source: Groundwater Midlands Region Point: HILLVIEW NURSERIES, TWYNING - BOREHOLE Data Type: Point Name: HILLVIEW NURSERIES Easting: 389030 Northing: 236500	Annual Volume (m <sup>3</sup> ): 8500 Max Daily Volume (m <sup>3</sup> ): 40 Original Application No: - Original Start Date: 15/02/1996 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1211m NW	Status: Historical Licence No: 18/54/08/0272 Details: Spray Irrigation - Direct Direct Source: Groundwater Midlands Region Point: VINETREE HOUSE, UCKINGHALL - WELL Data Type: Point Name: FORT Easting: 386700 Northing: 238100	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 31/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 30/11/1973 Version End Date: -
-	1725m N	Status: Historical Licence No: 18/54/17/0088 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: STRATFORD BRIDGE - WELL Data Type: Point Name: HARCOMB Easting: 388300 Northing: 238600	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 03/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/03/1966 Version End Date: -
-	1768m N	Status: Historical Licence No: 18/54/08/0047 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Groundwater Midlands Region Point: STRATFORD BRIDGE, RIPPLE - WELL Data Type: Point Name: MOORE Easting: 388200 Northing: 238700	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 25/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 11/01/2001 Version End Date: -



ID	Location	Details	
-	1937m NW	Status: Historical Licence No: 18/54/08/0521 Details: General Farming & Domestic Direct Source: Groundwater Midlands Region Point: SAXONS LODGE FARM, RIPPLE - BOREHOLE Data Type: Point Name: LANE Easting: 386460 Northing: 238800	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 21/01/1998 Expiry Date: - Issue No: 100 Version Start Date: 21/01/1998 Version End Date: -

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

## 6.7 Surface water abstractions

### Records within 2000m

32

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 41 >](#)

ID	Location	Details	
A	On site	Status: Active Licence No: 18/54/08/0523/R01 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: R. SEVERN AT RIPPLE, HOLDFAST, QUEENHILL, TWYNING & BUSHLEY Data Type: Line Name: RYALL HOUSE LTD Easting: 386326 Northing: 240217	Annual Volume (m <sup>3</sup> ): 35000 Max Daily Volume (m <sup>3</sup> ): 1600 Original Application No: NPS/WR/023958 Original Start Date: 23/04/2018 Expiry Date: 31/03/2034 Issue No: 1 Version Start Date: 23/04/2018 Version End Date: -
A	On site	Status: Active Licence No: 18/54/08/0523/R01 Details: Spray Irrigation - Storage Direct Source: Surface Water Midlands Region Point: R. SEVERN AT RIPPLE, HOLDFAST, QUEENHILL, TWYNING & BUSHLEY Data Type: Line Name: RYALL HOUSE LTD Easting: 386326 Northing: 240217	Annual Volume (m <sup>3</sup> ): 35000 Max Daily Volume (m <sup>3</sup> ): 1600 Original Application No: NPS/WR/023958 Original Start Date: 23/04/2018 Expiry Date: 31/03/2034 Issue No: 1 Version Start Date: 23/04/2018 Version End Date: -



ID	Location	Details	
A	On site	Status: Historical Licence No: 18/54/08/0523 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: RIPPLE, HOLDFAST, UCKINGHALL, TWYNING & BUSHEY Data Type: Line Name: RYALL HOUSE LTD Easting: 386350 Northing: 240200	Annual Volume (m <sup>3</sup> ): 35000 Max Daily Volume (m <sup>3</sup> ): 1600 Original Application No: - Original Start Date: 30/07/1998 Expiry Date: 31/03/2018 Issue No: 102 Version Start Date: 08/07/2002 Version End Date: -
A	On site	Status: Historical Licence No: 18/54/08/0523 Details: Spray Irrigation - Storage Direct Source: Surface Water Midlands Region Point: RIPPLE, HOLDFAST, UCKINGHALL, TWYNING & BUSHEY Data Type: Line Name: RYALL HOUSE LTD Easting: 386350 Northing: 240200	Annual Volume (m <sup>3</sup> ): 35000 Max Daily Volume (m <sup>3</sup> ): 1600 Original Application No: - Original Start Date: 30/07/1998 Expiry Date: 31/03/2018 Issue No: 102 Version Start Date: 08/07/2002 Version End Date: -
A	On site	Status: Historical Licence No: 18/54/08/0523/R01 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: RIPPLE, HOLDFAST, UCKINGHALL, TWYNING & BUSHEY Data Type: Line Name: RYALL HOUSE LTD Easting: 386350 Northing: 240200	Annual Volume (m <sup>3</sup> ): 35000 Max Daily Volume (m <sup>3</sup> ): 1600 Original Application No: - Original Start Date: 23/04/2018 Expiry Date: 31/03/2034 Issue No: 1 Version Start Date: 23/04/2018 Version End Date: -
A	On site	Status: Historical Licence No: 18/54/08/0523/R01 Details: Spray Irrigation - Storage Direct Source: Surface Water Midlands Region Point: RIPPLE, HOLDFAST, UCKINGHALL, TWYNING & BUSHEY Data Type: Line Name: RYALL HOUSE LTD Easting: 386350 Northing: 240200	Annual Volume (m <sup>3</sup> ): 35000 Max Daily Volume (m <sup>3</sup> ): 1600 Original Application No: - Original Start Date: 23/04/2018 Expiry Date: 31/03/2034 Issue No: 1 Version Start Date: 23/04/2018 Version End Date: -



ID	Location	Details	
1	45m SE	Status: Historical Licence No: 18/54/08/0463 Details: Spray Irrigation - Storage Direct Source: Surface Water Midlands Region Point: DADSLEY COTTAGE, TWYNING - RIPPLE BROOK Data Type: Point Name: SMITH Easting: 387950 Northing: 236120	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 11/06/1986 Expiry Date: - Issue No: 100 Version Start Date: 11/06/1986 Version End Date: -
2	50m SW	Status: Historical Licence No: MD/054/0008/040 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: RIVER SEVERN, THE STALLS, PARKVIEW, WORCESTERSHIRE Data Type: Line Name: W H HOULBROOKE & SONS Easting: 386848 Northing: 236130	Annual Volume (m <sup>3</sup> ): 40000 Max Daily Volume (m <sup>3</sup> ): 2400 Original Application No: - Original Start Date: 29/06/2016 Expiry Date: 31/03/2022 Issue No: 1 Version Start Date: 29/06/2016 Version End Date: -
B	69m E	Status: Historical Licence No: 18/54/08/0461 Details: Spray Irrigation - Storage Direct Source: Surface Water Midlands Region Point: PUCKRUP HALL, TWYNING - TRIBUTARY OF RIPPLE BROOK Data Type: Point Name: COUNTRY MANSION HOTELS LTD Easting: 388480 Northing: 236270	Annual Volume (m <sup>3</sup> ): 13636 Max Daily Volume (m <sup>3</sup> ): 13636 Original Application No: - Original Start Date: 03/01/1984 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1993 Version End Date: -
B	105m E	Status: Active Licence No: MD/054/0008/059 Details: Spray Irrigation - Storage Direct Source: Surface Water Midlands Region Point: WEIR ON RIPPLE BROOK AT PUCKRUP HALL Data Type: Point Name: Puckrup Hall Hotel Limited Easting: 388468 Northing: 236305	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: NPS/WR/034271 Original Start Date: 30/04/2021 Expiry Date: 31/03/2034 Issue No: 1 Version Start Date: 30/04/2021 Version End Date: -
4	133m E	Status: Active Licence No: MD/054/0008/062 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: PUCKRUP HALL STORAGE LAKE Data Type: Point Name: Puckrup Hall Hotel Limited Easting: 388289 Northing: 236267	Annual Volume (m <sup>3</sup> ): 12750 Max Daily Volume (m <sup>3</sup> ): 60 Original Application No: NPS/WR/034270 Original Start Date: 30/04/2021 Expiry Date: 31/03/2034 Issue No: 1 Version Start Date: 30/04/2021 Version End Date: -



ID	Location	Details	
E	366m NW	Status: Historical Licence No: 18/54/08/0534 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: R. SEVERN AT RIPPLE, HOLDFAST, QUEENHILL, TWYNING & BUSHLEY Data Type: Line Name: RYALL HOUSE LIMITED Easting: 386350 Northing: 240200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 23/05/2000 Expiry Date: 31/03/2008 Issue No: 2 Version Start Date: 01/03/2002 Version End Date: -
E	366m NW	Status: Historical Licence No: 18/54/08/0534/1 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: R. SEVERN AT RIPPLE, HOLDFAST, QUEENHILL, TWYNING & BUSHLEY Data Type: Line Name: RYALL HOUSE LIMITED Easting: 386350 Northing: 240200	Annual Volume (m <sup>3</sup> ): 18000 Max Daily Volume (m <sup>3</sup> ): 2000 Original Application No: - Original Start Date: 17/08/2004 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 17/08/2004 Version End Date: -
F	400m NW	Status: Historical Licence No: 18/54/08/0554/S Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: RIPPLE GLOUCESTERSHIRE Data Type: Point Name: RYALL HOUSE LIMITED Easting: 386750 Northing: 236860	Annual Volume (m <sup>3</sup> ): 200000 Max Daily Volume (m <sup>3</sup> ): 3000 Original Application No: - Original Start Date: 17/07/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 17/07/2007 Version End Date: -
F	404m NW	Status: Historical Licence No: 18/54/08/0554/R01 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: RIPPLE GLOUCESTERSHIRE Data Type: Point Name: RYALL HOUSE LIMITED Easting: 386746 Northing: 236861	Annual Volume (m <sup>3</sup> ): 50000 Max Daily Volume (m <sup>3</sup> ): 3000 Original Application No: - Original Start Date: 12/05/2015 Expiry Date: 31/03/2022 Issue No: 2 Version Start Date: 29/11/2017 Version End Date: -
G	404m NW	Status: Active Licence No: 18/54/08/0554/R02 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: RIPPLE GLOUCESTERSHIRE Data Type: Line Name: RYALL HOUSE LIMITED Easting: 386746 Northing: 236861	Annual Volume (m <sup>3</sup> ): 50000 Max Daily Volume (m <sup>3</sup> ): 2000 Original Application No: NPS/WR/035472 Original Start Date: 01/07/2022 Expiry Date: 31/03/2034 Issue No: 1 Version Start Date: 01/07/2022 Version End Date: -



ID	Location	Details	
G	404m NW	Status: Historical Licence No: 18/54/08/0554/R01 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: RIPPLE GLOUCESTERSHIRE Data Type: Line Name: RYALL HOUSE LIMITED Easting: 386746 Northing: 236861	Annual Volume (m <sup>3</sup> ): 50000 Max Daily Volume (m <sup>3</sup> ): 3000 Original Application No: - Original Start Date: 12/05/2015 Expiry Date: 31/03/2022 Issue No: 2 Version Start Date: 29/11/2017 Version End Date: -
7	421m W	Status: Historical Licence No: 18/54/08/0523 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: NEW BUILDINGS FARM, RIPPLE - RIVER SEVERN (C&D) Data Type: Line Name: RYALL HOUSE LTD Easting: 386420 Northing: 237380	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 30/07/1998 Expiry Date: - Issue No: 101 Version Start Date: 10/05/1999 Version End Date: -
-	897m W	Status: Active Licence No: 18/54/08/0251 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: GREEN FARM - BUSHLEY BROOK Data Type: Line Name: DANIELL Easting: 385200 Northing: 236400	Annual Volume (m <sup>3</sup> ): 25699 Max Daily Volume (m <sup>3</sup> ): 1454.74 Original Application No: - Original Start Date: 31/10/1966 Expiry Date: - Issue No: 101 Version Start Date: 14/06/2003 Version End Date: -
H	1081m NW	Status: Active Licence No: 18/54/08/0539/R01 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: UCKINGHALL - RIVER SEVERN Data Type: Line Name: FINCH Easting: 385940 Northing: 238050	Annual Volume (m <sup>3</sup> ): 31818 Max Daily Volume (m <sup>3</sup> ): 1000 Original Application No: NPS/WR/023961 Original Start Date: 31/05/2018 Expiry Date: 31/03/2034 Issue No: 1 Version Start Date: 01/04/2019 Version End Date: -
H	1081m NW	Status: Historical Licence No: 18/54/08/0539 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: UCKINGHALL - RIVER SEVERN Data Type: Line Name: FINCH Easting: 385940 Northing: 238050	Annual Volume (m <sup>3</sup> ): 31818 Max Daily Volume (m <sup>3</sup> ): 1000 Original Application No: - Original Start Date: 23/07/2001 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 23/07/2001 Version End Date: -



ID	Location	Details	
9	1082m NW	Status: Historical Licence No: 18/54/08/0439 Details: Make-Up Or Top Up Water Direct Source: Surface Water Midlands Region Point: UCKINGHALL POOL - RIVER SEVERN Data Type: Point Name: THE BIRMINGHAM ANGLERS ASSOC LIMITED Easting: 386310 Northing: 237620	Annual Volume (m <sup>3</sup> ): 5456 Max Daily Volume (m <sup>3</sup> ): 48 Original Application No: - Original Start Date: 05/06/1979 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2005 Version End Date: -
-	1162m NW	Status: Historical Licence No: 18/54/08/0523 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: NEW BUILDINGS FARM, RIPPLE - RIVER SEVERN (A&B) Data Type: Line Name: RYALL HOUSE LTD Easting: 385870 Northing: 238150	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 30/07/1998 Expiry Date: - Issue No: 101 Version Start Date: 10/05/1999 Version End Date: -
-	1384m N	Status: Active Licence No: 18/54/08/0485 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: MALTHOUSE FARM, RIPPLE - RIPPLE BROOK Data Type: Point Name: FINCH Easting: 387890 Northing: 238410	Annual Volume (m <sup>3</sup> ): 6819 Max Daily Volume (m <sup>3</sup> ): 336 Original Application No: - Original Start Date: 19/07/1990 Expiry Date: - Issue No: 100 Version Start Date: 19/07/1990 Version End Date: -
-	1384m N	Status: Active Licence No: 18/54/08/0485 Details: Spray Irrigation - Storage Direct Source: Surface Water Midlands Region Point: MALTHOUSE FARM, RIPPLE - RIPPLE BROOK Data Type: Point Name: FINCH Easting: 387890 Northing: 238410	Annual Volume (m <sup>3</sup> ): 6819 Max Daily Volume (m <sup>3</sup> ): 336 Original Application No: - Original Start Date: 19/07/1990 Expiry Date: - Issue No: 100 Version Start Date: 19/07/1990 Version End Date: -
-	1432m E	Status: Historical Licence No: 18/54/13/0388 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: RIVER AVON AT TWYNING, BREDON AND TEWKESBURY Data Type: Line Name: SANDFIELDS FARM LIMITED Easting: 390380 Northing: 236250	Annual Volume (m <sup>3</sup> ): 365000 Max Daily Volume (m <sup>3</sup> ): 18000 Original Application No: - Original Start Date: 31/01/2006 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 01/08/2007 Version End Date: -



ID	Location	Details	
-	1432m E	Status: Historical Licence No: 18/54/17/0729 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: RIVER AVON AT TWYNING, BREDON AND TEWKESBURY Data Type: Line Name: RYALL HOUSE LIMITED Easting: 390380 Northing: 236250	Annual Volume (m <sup>3</sup> ): 50000 Max Daily Volume (m <sup>3</sup> ): 2000 Original Application No: - Original Start Date: 29/07/2002 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 31/07/2003 Version End Date: -
-	1440m E	Status: Active Licence No: MD/054/0017/016 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: RIVER AVON AT TWYNING, BREDON AND TEWKESBURY Data Type: Line Name: RYALL HOUSE LTD Easting: 390389 Northing: 236245	Annual Volume (m <sup>3</sup> ): 50000 Max Daily Volume (m <sup>3</sup> ): 2000 Original Application No: NPS/WR/008801 Original Start Date: 01/04/2013 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 01/04/2017 Version End Date: -
-	1495m NE	Status: Historical Licence No: 18/54/17/0644 Details: Spray Irrigation - Storage Direct Source: Surface Water Midlands Region Point: TWYNING, TEWKESBURY, GLOUCESTERSHIRE-TRIBUTARY OF RIVER AVON Data Type: Point Name: P BROOKES & SON Easting: 389820 Northing: 237350	Annual Volume (m <sup>3</sup> ): 4546 Max Daily Volume (m <sup>3</sup> ): 48 Original Application No: - Original Start Date: 22/11/1982 Expiry Date: - Issue No: 100 Version Start Date: 22/11/1982 Version End Date: -
-	1513m SE	Status: Historical Licence No: 18/54/08/0546 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: PAYNE'S PLACE & BUSHLEY PARK, BUSHLEY, TEWKESBURY Data Type: Poly4 Name: JC & MW SUCKLEY Easting: 388410 Northing: 234300	Annual Volume (m <sup>3</sup> ): 115250 Max Daily Volume (m <sup>3</sup> ): 3300 Original Application No: - Original Start Date: 28/05/2004 Expiry Date: - Issue No: 1 Version Start Date: 28/05/2004 Version End Date: -



ID	Location	Details	
-	1575m E	Status: Historical Licence No: 18/54/17/0656 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: MITTON, TEWKESBURY, GLOUCESTERSHIRE - RIVER AVON Data Type: Line Name: D T & J M PEARMAN & SON Easting: 390200 Northing: 235370	Annual Volume (m <sup>3</sup> ): 4546 Max Daily Volume (m <sup>3</sup> ): 3264 Original Application No: - Original Start Date: 08/01/1987 Expiry Date: - Issue No: 100 Version Start Date: 16/01/1990 Version End Date: -
-	1950m NW	Status: Historical Licence No: 18/54/08/0551 Details: Spray Irrigation - Direct Direct Source: Surface Water Midlands Region Point: SAXON'S LODGE FARM, RIPPLE, TEWKESBURY - RIVER SEVERN Data Type: Point Name: CHINN Easting: 386220 Northing: 238670	Annual Volume (m <sup>3</sup> ): 20000 Max Daily Volume (m <sup>3</sup> ): 1200 Original Application No: - Original Start Date: 17/01/2006 Expiry Date: 31/10/2006 Issue No: 1 Version Start Date: 17/01/2006 Version End Date: -

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

## 6.8 Potable abstractions

### Records within 2000m

0

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.

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

## 6.9 Source Protection Zones

### Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

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



## 6.10 Source Protection Zones (confined aquifer)

Records within 500m

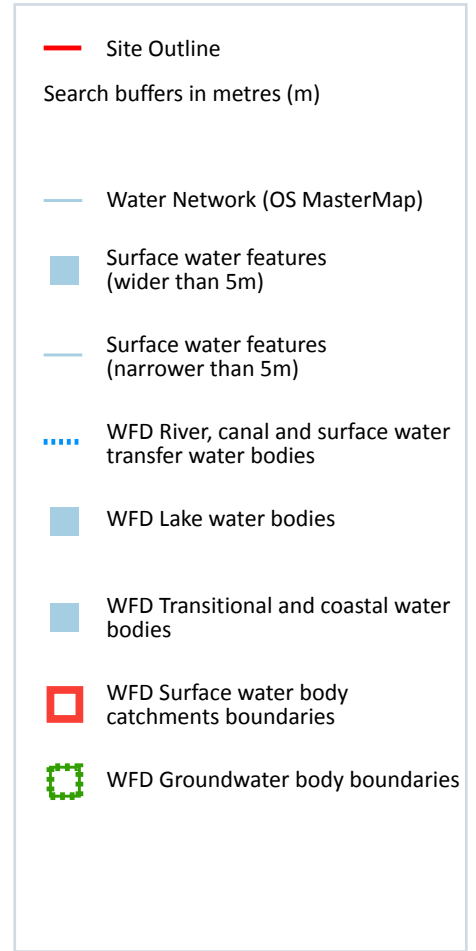
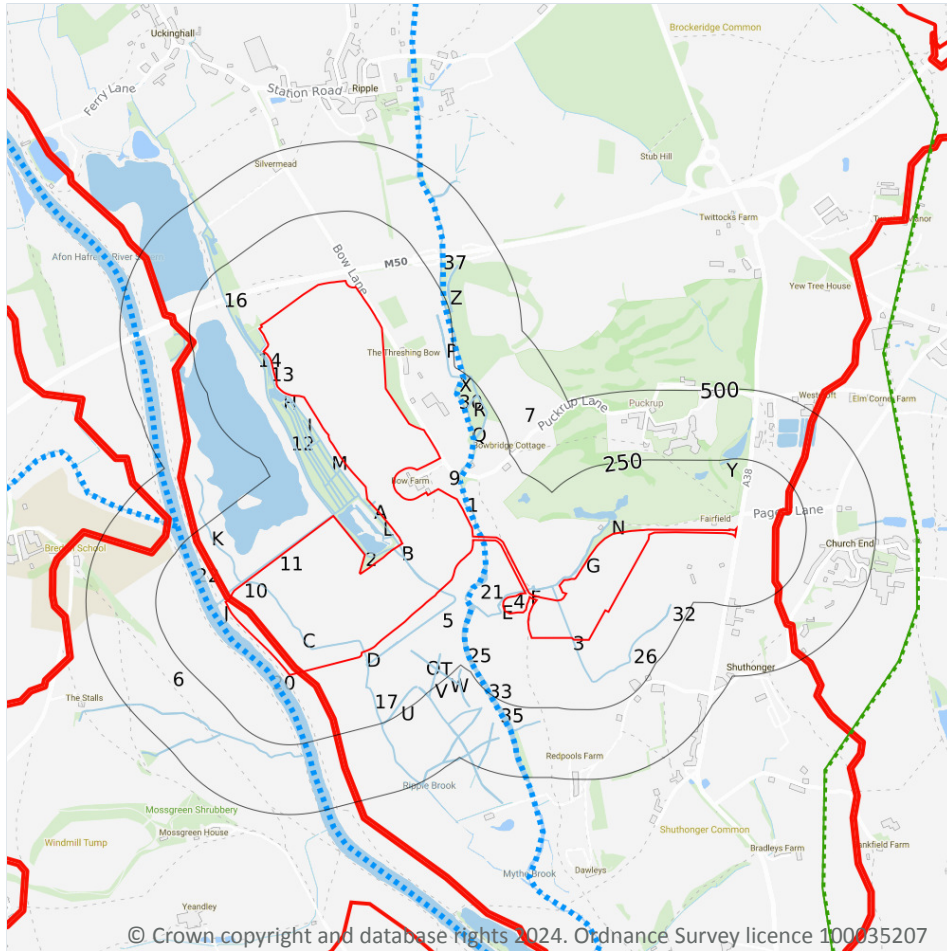
0

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.*



## 7 Hydrology



### 7.1 Water Network (OS MasterMap)

Records within 250m

107

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 53 >](#)

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

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	On site	Inland river not influenced by normal tidal action.	Not provided	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)	-
5	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.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	2m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
11	3m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	3m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	4m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
12	5m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	5m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	7m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	8m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	9m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	9m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	9m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
13	9m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ripple Lake
E	9m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	11m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
A	11m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	11m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	13m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
K	13m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	14m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	15m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	15m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	15m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	19m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	19m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	20m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	21m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	22m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	22m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
14	23m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	24m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
D	26m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	27m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	27m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	28m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	28m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	28m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	29m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	32m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	32m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	32m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
16	32m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	40m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
17	40m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ripple Brook



ID	Location	Type of water feature	Ground level	Permanence	Name
I	41m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	45m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	45m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	45m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	46m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	46m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	48m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	48m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	50m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
20	51m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Hafren
A	52m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	52m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	54m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
21	55m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ripple Brook
22	58m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Hafren
A	68m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	69m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	72m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	73m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	76m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	77m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	77m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	78m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
N	79m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	85m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	85m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
A	89m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	90m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	95m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
25	112m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Mythe Brook
26	135m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	140m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ripple Brook
Q	140m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
30	167m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ripple Brook
R	168m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	170m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
32	183m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	203m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	203m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
V	204m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	204m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	214m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	217m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	217m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
33	228m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Mythe Brook
35	229m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Mythe Brook
X	229m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	235m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ripple Brook
Y	236m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	237m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ripple Brook
37	239m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ripple Brook
Z	240m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
Y	245m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	249m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

*This data is sourced from the Ordnance Survey.*

## 7.2 Surface water features

**Records within 250m**

**31**

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 53](#) >

*This data is sourced from the Ordnance Survey.*

## 7.3 WFD Surface water body catchments

**Records on site**

**2**

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 53](#) >

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
6	On site	River	Severn - conf R Teme to conf R Avon	GB109054039760	Severn River and Trib	Severn Vale
7	On site	River	Ripple Bk - source to conf R Severn	GB109054039730	Severn River and Trib	Severn Vale

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



## 7.4 WFD Surface water bodies

### Records identified

2

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 53 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
8	On site	River	Ripple Bk - source to conf R Severn	<a href="#">GB109054039730</a> ↗	Moderate	Fail	Moderate	2019
19	51m SW	River	Severn - conf R Teme to conf R Avon	<a href="#">GB109054039760</a> ↗	Moderate	Fail	Moderate	2019

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

## 7.5 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.

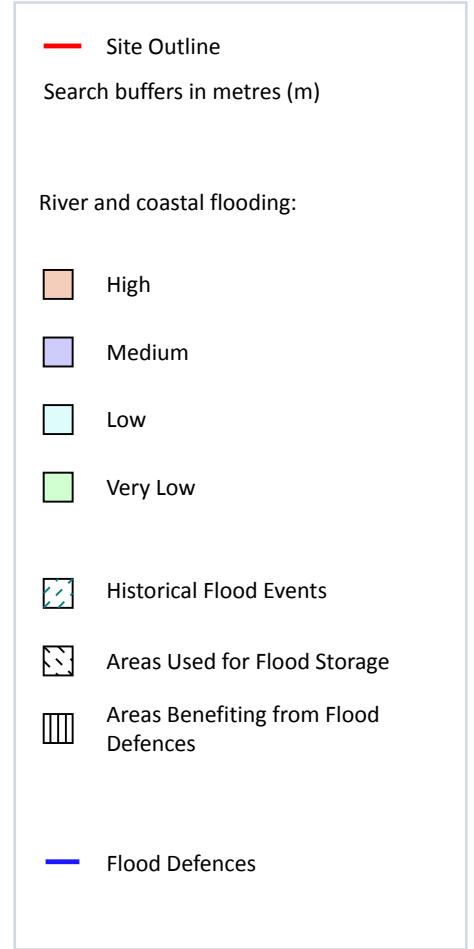
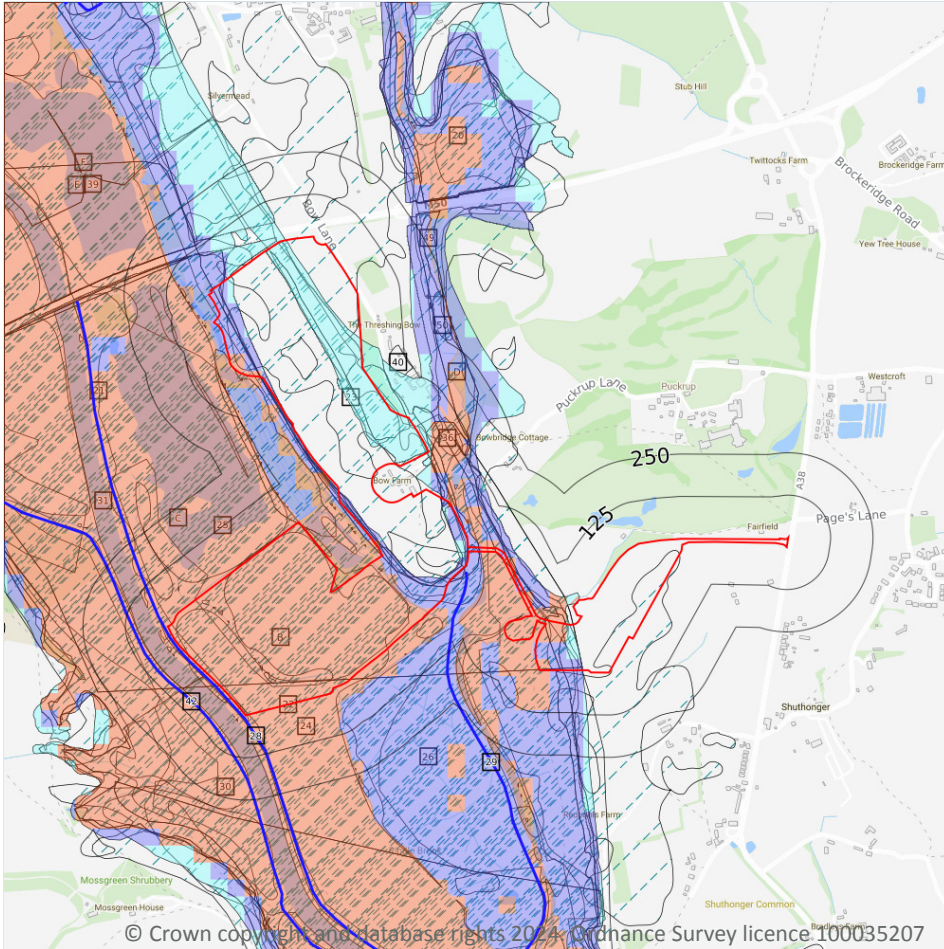
Features are displayed on the Hydrology map on [page 53 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
9	On site	Severn Vale - Secondary Combined	<a href="#">GB40902G204900</a> ↗	Good	Good	Good	2019

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



## 8 River and coastal flooding



### 8.1 Risk of flooding from rivers and the sea

Records within 50m

29

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 64 >](#)

Distance	Flood risk category
<b>On site</b>	<b>High</b>
0 - 50m	High

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

## 8.2 Historical Flood Events

<b>Records within 250m</b>	<b>26</b>
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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.

Features are displayed on the River and coastal flooding map on [page 64](#) >

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
20	On site	March 1947 (Lower Severn)	1947-03-01 1947-03-01	Main river	Channel capacity exceeded (no raised defences)	Fluvial
21	On site	2nd December 1992 River Severn	2001-01-01 2001-01-01	Main river	Unknown	Fluvial
22	On site	River Severn Worcester To Tewkesbury 017 (July 07)	2007-07-20 2007-07-31	Main river	Channel capacity exceeded (no raised defences)	Fluvial
23	On site	March 1947 (Lower Severn)	1947-03-01 1947-03-01	Main river	Channel capacity exceeded (no raised defences)	Fluvial
24	On site	March 1947 (Lower Severn)	1947-03-01 1947-03-01	Main river	Channel capacity exceeded (no raised defences)	Fluvial
25	On site	March-1947 River Severn	1947-03-07 1947-04-04	Main river	Channel capacity exceeded (no raised defences)	Fluvial
26	On site	South West England	2014-01-30 2014-02-10	Unclassified	Unclassified	No data
B	On site	January 29th 1990 River Severn	2001-01-01 2001-01-01	Main river	Unknown	Fluvial
B	On site	Bushley	1990-01-01 1990-01-01	Main river	Channel capacity exceeded (no raised defences)	Fluvial
B	On site	November 2000 (Lower Severn)	2000-10-29 2000-11-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
B	On site	Tewkesbury	2000-10-29 2000-11-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
C	On site	December 2000 (Lower Severn)	2000-12-01 2000-12-20	Main river	Channel capacity exceeded (no raised defences)	Fluvial
C	On site	Queenhill	2000-12-05 2000-12-20	Main river	Channel capacity exceeded (no raised defences)	Fluvial
30	14m SW	Oct 1998	1998-10-26 1998-10-31	Main river	Channel capacity exceeded (no raised defences)	Fluvial
31	15m SW	Oct 1998	1998-10-26 1998-10-31	Main river	Channel capacity exceeded (no raised defences)	Fluvial
36	34m NE	South West England	2014-01-30 2014-02-10	Unclassified	Unclassified	No data
39	58m N	River Severn Worcester To Tewkesbury 022 (July 07)	2007-07-20 2007-07-31	Main river	Channel capacity exceeded (no raised defences)	Fluvial
40	71m N	South West England	2014-01-30 2014-02-10	Unclassified	Unclassified	No data
D	107m NE	Ripple	2000-10-29 2000-11-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
D	107m NE	November 2000 (Lower Severn)	2000-10-29 2000-11-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
E	117m NW	January 29th 1999 River Severn	2001-01-01 2001-01-01	Main river	Unknown	Fluvial
F	135m NW	November 2000 (Lower Severn)	2000-10-29 2000-11-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
F	135m NW	Severn Stoke	2000-10-29 2000-11-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
E	135m NW	Upton Upon Severn	1990-01-01 1990-01-01	Main river	Channel capacity exceeded (no raised defences)	Fluvial
49	192m N	Ripple	1990-01-01 1990-01-01	Main river	Channel capacity exceeded (no raised defences)	Fluvial
50	202m N	South West England	2014-01-30 2014-02-10	Unclassified	Unclassified	No data

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



### 8.3 Flood Defences

Records within 250m

3

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.

Features are displayed on the River and coastal flooding map on [page 64](#) >

ID	Location	Update
28	8m SW	08/11/2022
29	14m SE	08/11/2022
42	90m SW	08/11/2022

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

### 8.4 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.*

### 8.5 Flood Storage Areas

Records within 250m

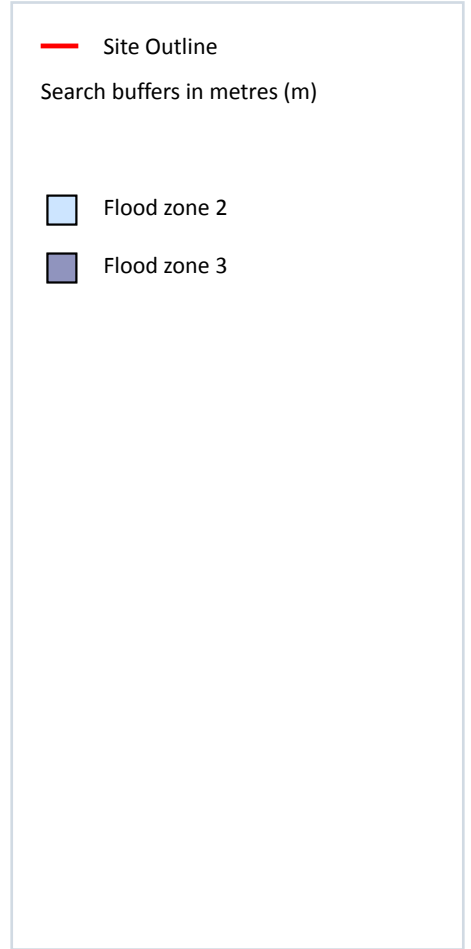
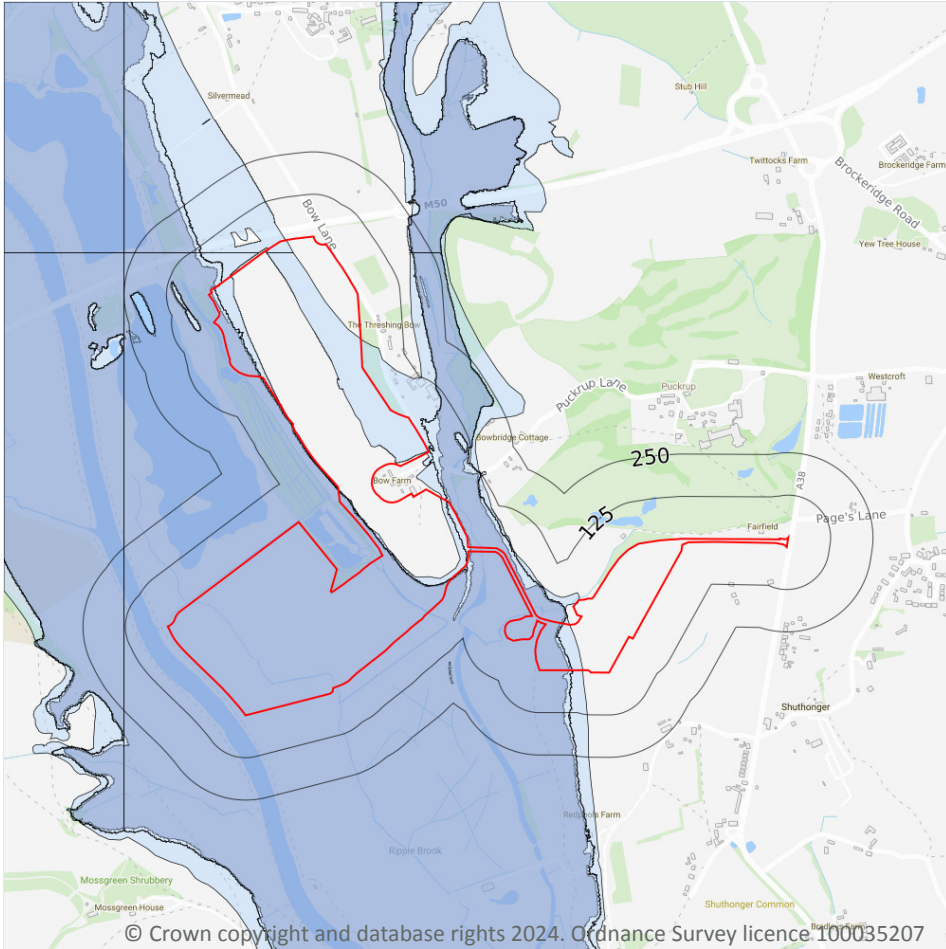
0

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.*



## River and coastal flooding - Flood Zones



### 8.6 Flood Zone 2

Records within 50m

1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

Features are displayed on the River and coastal flooding map on [page 64](#) >

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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

## 8.7 Flood Zone 3

### Records within 50m

**1**

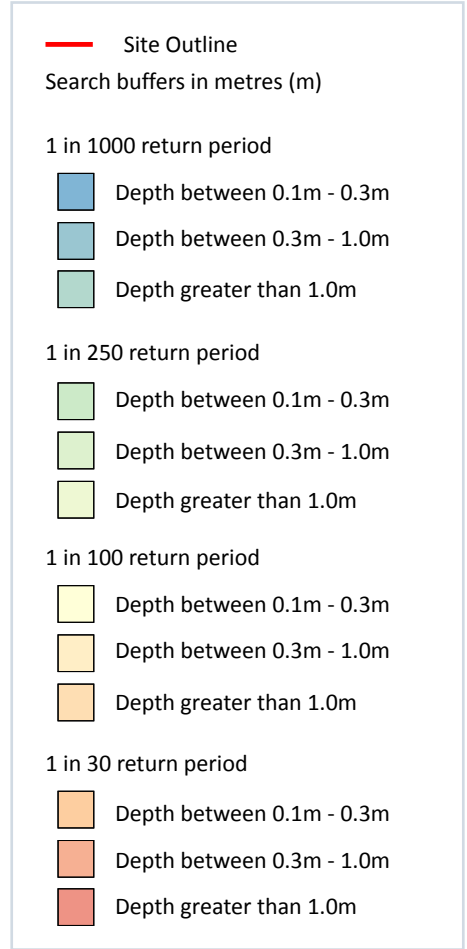
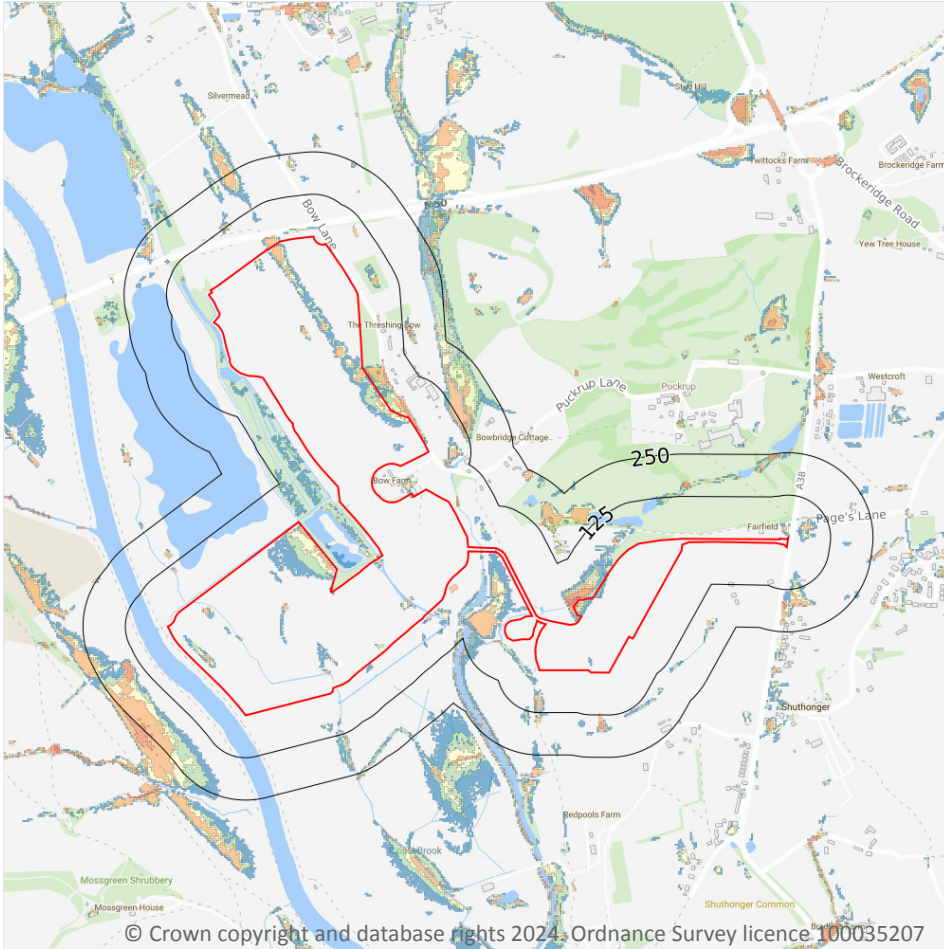
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on [page 64](#) >

Location	Type
On site	Zone 3 - (Fluvial Models)

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

## 9 Surface water flooding



### 9.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 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 70 >](#)

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

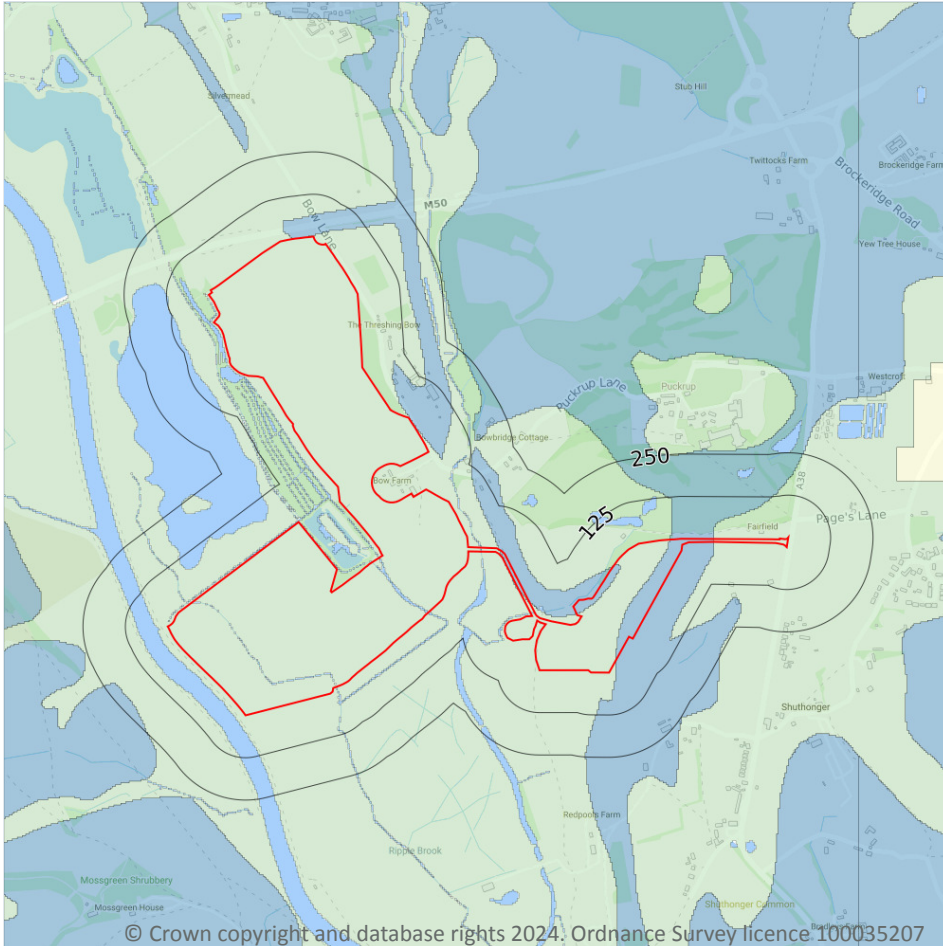
a site. The table below shows the maximum flood depths for a range of return periods for the site.

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	Between 0.3m and 1.0m

*This data is sourced from Ambiental Risk Analytics.*



## 10 Groundwater flooding



### 10.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

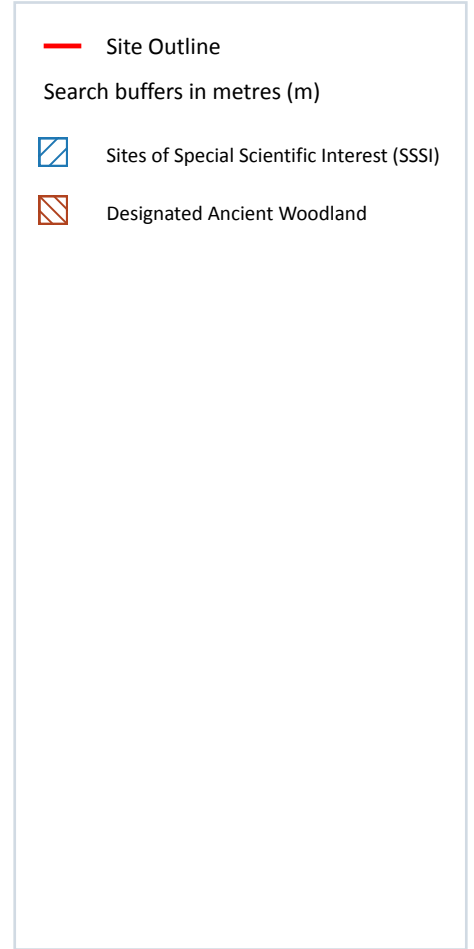
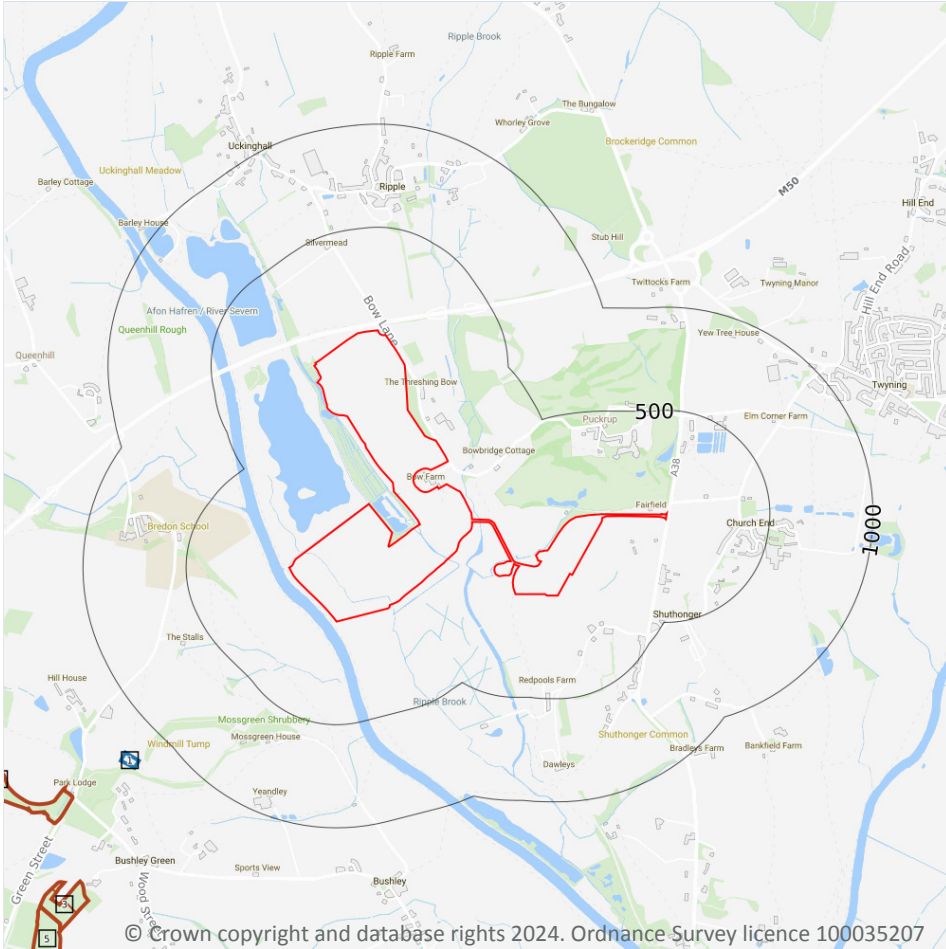
Low

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 72 >](#)

*This data is sourced from Ambiental Risk Analytics.*

## 11 Environmental designations



### 11.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

2

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.

Features are displayed on the Environmental designations map on [page 73 >](#)

ID	Location	Name	Data source
1	1161m SW	Windmill Tump	Natural England



ID	Location	Name	Data source
-	1942m E	Upham Meadow and Summer Leasow	Natural England

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

## 11.2 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.*

## 11.3 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.*

## 11.4 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.*

## 11.5 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.*



## 11.6 Local Nature Reserves (LNR)

Records within 2000m

0

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.

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

## 11.7 Designated Ancient Woodland

Records within 2000m

3

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 73 >](#)

ID	Location	Name	Woodland Type
2	1513m SW	Aggberrow Wood	Ancient & Semi-Natural Woodland
3	1770m SW	Sarn Hill Wood	Ancient & Semi-Natural Woodland
5	1986m SW	Sarn Hill Wood	Ancient Replanted Woodland

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

## 11.8 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.*



## 11.9 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.*

## 11.10 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.*

## 11.11 Green Belt

Records within 2000m

0

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

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

## 11.12 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.*

## 11.13 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.*



## 11.14 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.*

## 11.15 Nitrate Sensitive Areas

Records within 2000m

0

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).

*This data is sourced from Natural England.*

## 11.16 Nitrate Vulnerable Zones

Records within 2000m

2

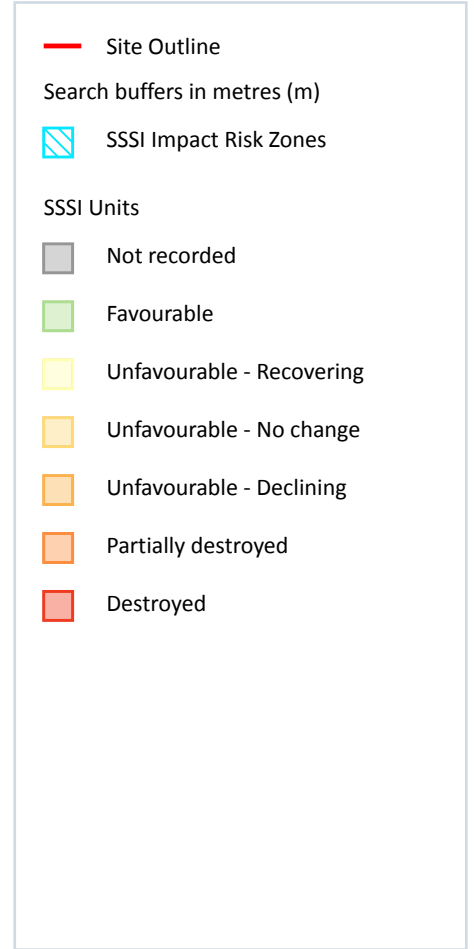
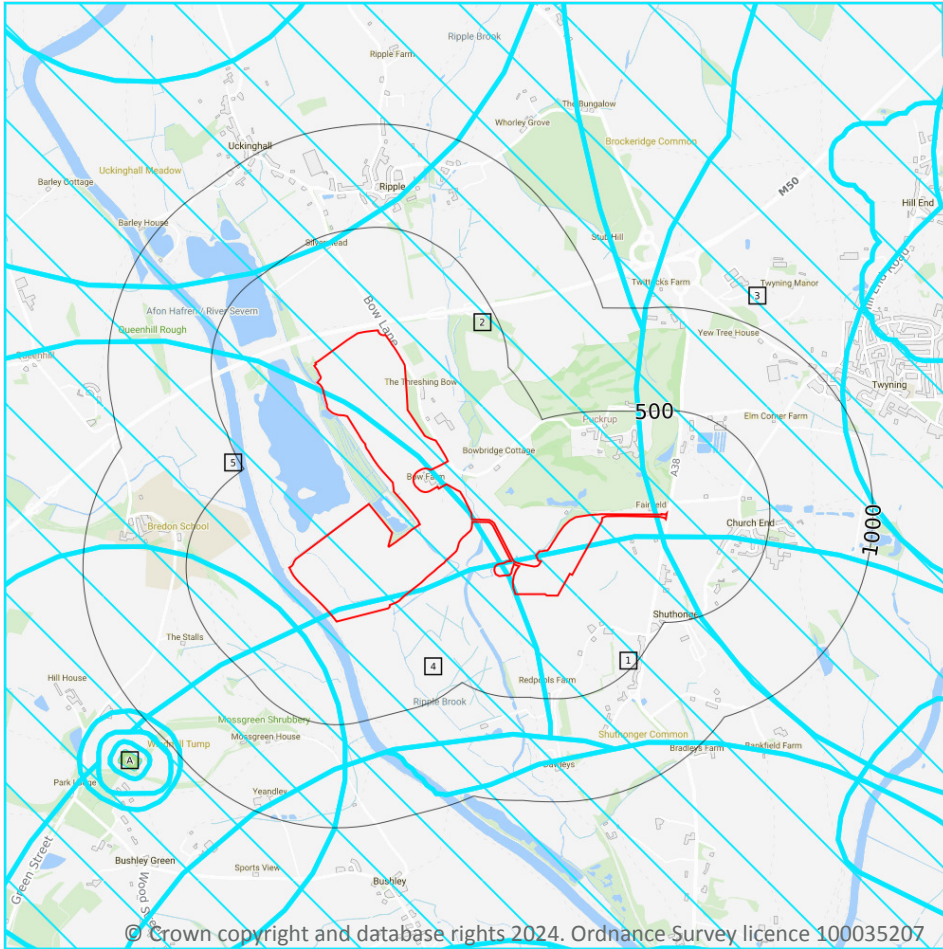
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
217m E	River Avon (to confluence with River Severn) NVZ	Surface Water	590	Existing
323m E	River Avon (to confluence with River Severn) NVZ	Surface Water	590	Existing

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



## SSSI Impact Zones and Units



### 11.17 SSSI Impact Risk Zones

Records on site

5

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.

Features are displayed on the SSSI Impact Zones and Units map on [page 78 >](#)

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil &amp; gas exploration/extraction.</p> <p>Air pollution - Livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 750m<sup>2</sup>, manure stores &gt; 3500t.</p> <p>Combustion - General combustion processes &gt;50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m<sup>3</sup>/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>
2	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil &amp; gas exploration/extraction.</p> <p>Air pollution - Livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 750m<sup>2</sup>, manure stores &gt; 3500t.</p> <p>Combustion - General combustion processes &gt;50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m<sup>3</sup>/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>
3	On site	<p>Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil &amp; gas exploration/extraction.</p> <p>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 200m<sup>2</sup>, manure stores &gt; 250t).</p> <p>Combustion - General combustion processes &gt;20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m<sup>3</sup>/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p> <p>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m<sup>2</sup> or more.</p>

ID	Location	Type of developments requiring consultation
4	On site	<p>Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil &amp; gas exploration/extraction.</p> <p>Air pollution - Livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 750m<sup>2</sup>, manure stores &gt; 3500t.</p> <p>Combustion - General combustion processes &gt;50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m<sup>3</sup>/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p> <p>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m<sup>2</sup> or more.</p>
5	On site	<p>Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil &amp; gas exploration/extraction.</p> <p>Air pollution - Livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 750m<sup>2</sup>, manure stores &gt; 3500t.</p> <p>Combustion - General combustion processes &gt;50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m<sup>3</sup>/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p> <p>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m<sup>2</sup> or more.</p>

*This data is sourced from Natural England.*

## 11.18 SSSI Units

Records within 2000m

2

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.

Features are displayed on the SSSI Impact Zones and Units map on [page 78](#) >



ID: A  
 Location: 1161m SW  
 SSSI name: Windmill Tump  
 Unit name: 1  
 Broad habitat: Earth Heritage  
 Condition: Favourable  
 Reportable features:

Feature name	Feature condition	Date of assessment
FB - Quaternary of Midlands - Avon	Favourable	07/03/2009

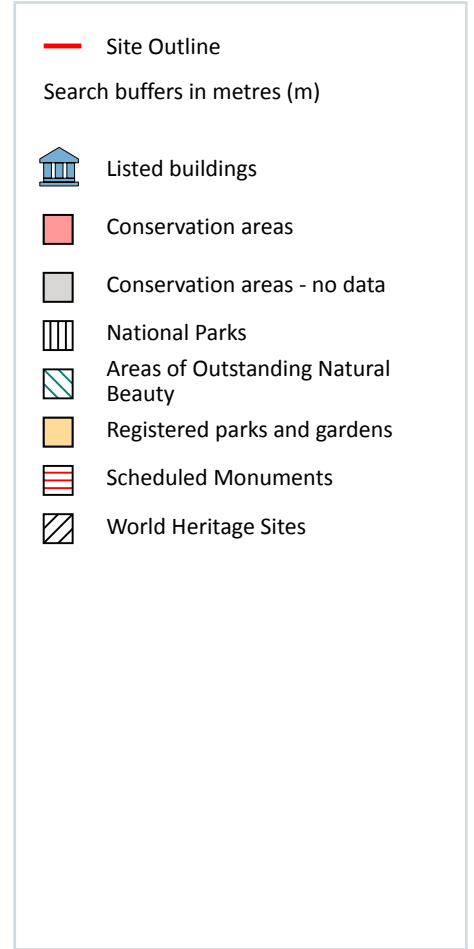
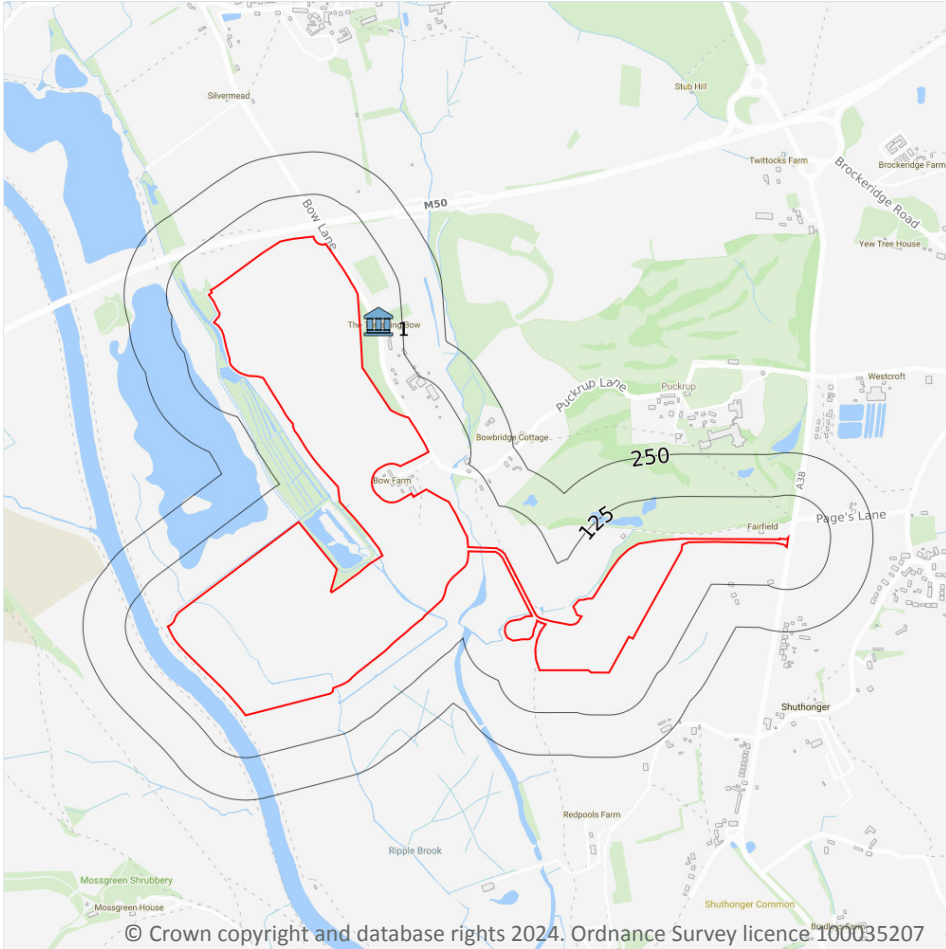
ID: -  
 Location: 1942m E  
 SSSI name: Upham Meadow and Summer Leasow  
 Unit name: Hay Meadow  
 Broad habitat: Neutral Grassland - Lowland  
 Condition: Unfavourable - Recovering  
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Curlew, Numenius arquata	Favourable	25/08/2010
Aggregations of breeding birds - Redshank, Tringa totanus	Unfavourable - Recovering	25/08/2010
Aggregations of breeding birds - Snipe, Gallinago gallinago	Unfavourable - Recovering	25/08/2010

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



## 12 Visual and cultural designations



### 12.1 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.*

## 12.2 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.*

## 12.3 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.*

## 12.4 Listed Buildings

Records within 250m

1

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 82 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	56m N	Puck Cottage	II	1302508	14/06/1985

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



## 12.5 Conservation Areas

Records within 250m

0

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.

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

## 12.6 Scheduled Ancient Monuments

Records within 250m

0

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.

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

## 12.7 Registered Parks and Gardens

Records within 250m

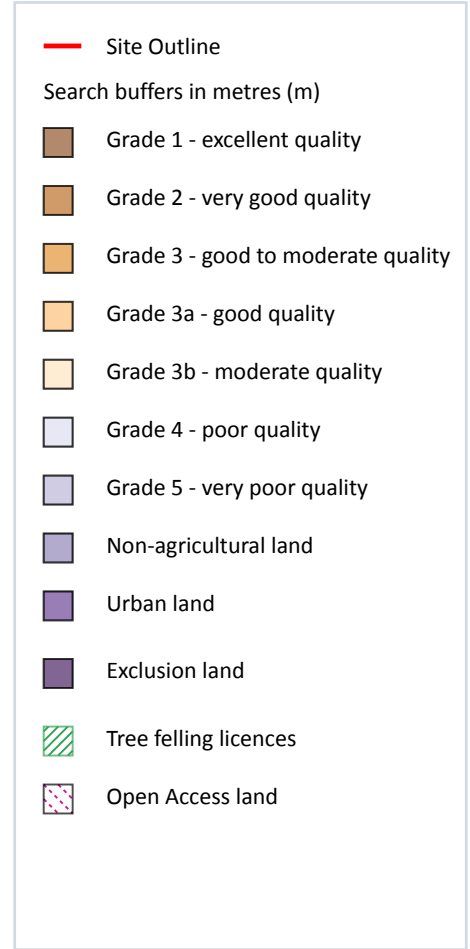
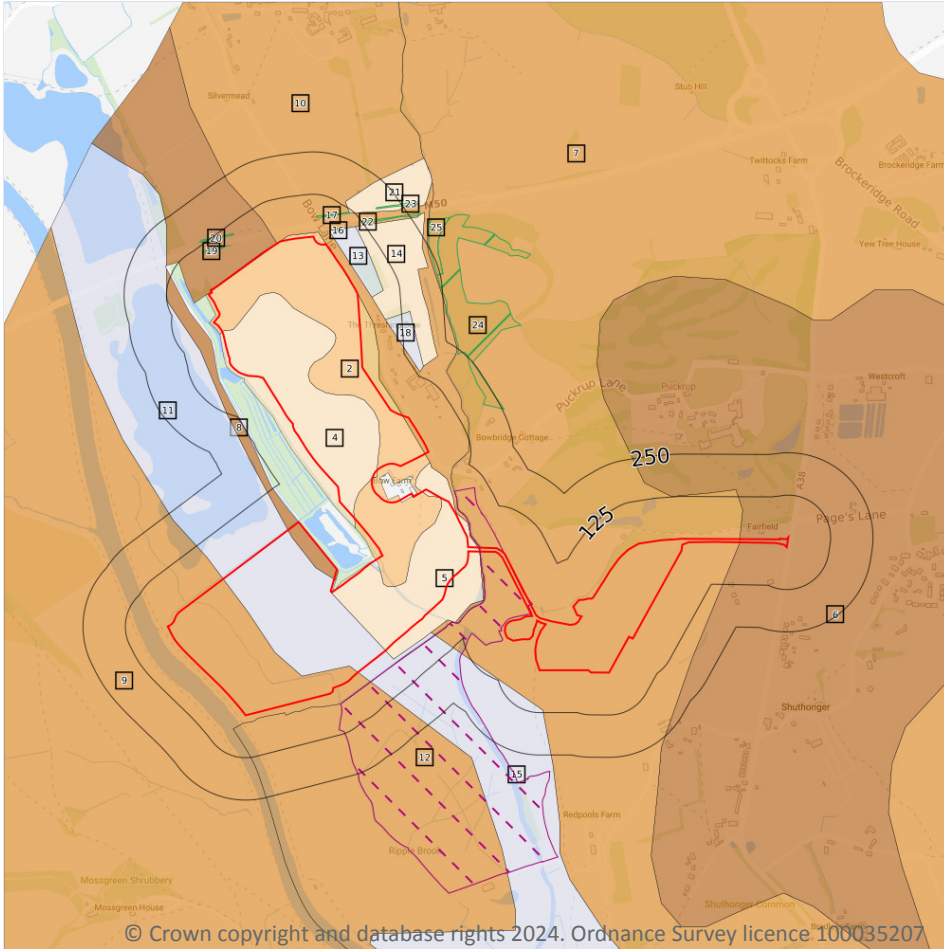
0

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.*



## 13 Agricultural designations



### 13.1 Agricultural Land Classification

**Records within 250m** **14**

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 85](#) >

ID	Location	Classification	Description
2	On site	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.

ID	Location	Classification	Description
4	On site	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
5	On site	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
6	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.
7	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.
8	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.
9	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.
10	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.
11	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
13	27m N	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
14	41m N	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.



ID	Location	Classification	Description
15	46m S	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
18	76m N	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
21	115m N	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

*This data is sourced from Natural England.*

## 13.2 Open Access Land

### Records within 250m

1

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.

Features are displayed on the Agricultural designations map on [page 85 >](#)

ID	Location	Name	Classification	Other relevant legislation
12	On site	Lower Cow Pasture (1), Shuthanger Common (2) and Midsummer Meadow, Cowham	Section 4 Conclusive Registered Common Land	-

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

## 13.3 Tree Felling Licences

### Records within 250m

8

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.

Features are displayed on the Agricultural designations map on [page 85 >](#)



ID	Location	Description	Reference	Application date
16	50m N	Single Tree	018/366/15-16	-
17	57m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-
19	79m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
20	94m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
22	124m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-
23	181m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-
24	208m NE	Selective Fell/Thin (Conditional)	015/170/16-17	12/01/2017
25	241m N	Clear Fell (Conditional)	015/170/16-17	12/01/2017

*This data is sourced from the Forestry Commission.*

## 13.4 Environmental Stewardship Schemes

**Records within 250m**

**2**

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
113m NE	AG00338855	Entry Level plus Higher Level Stewardship	01/11/2010	31/10/2020
211m E	AG00338855	Entry Level plus Higher Level Stewardship	01/11/2010	31/10/2020

*This data is sourced from Natural England.*

## 13.5 Countryside Stewardship Schemes

**Records within 250m**

**4**

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
20m S	1442643	Countryside Stewardship (Middle Tier)	01/01/2023	31/12/2027
77m SW	1456314	Countryside Stewardship (Middle Tier)	01/01/2023	31/12/2027
197m NE	1058367	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025

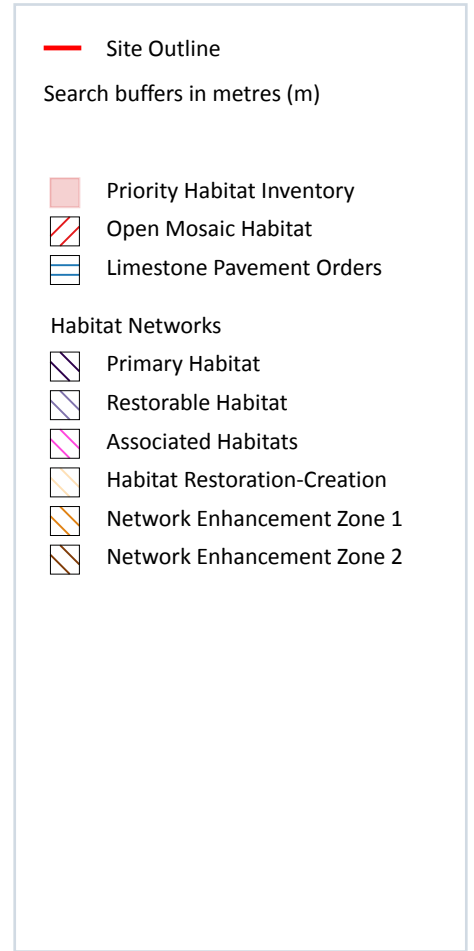
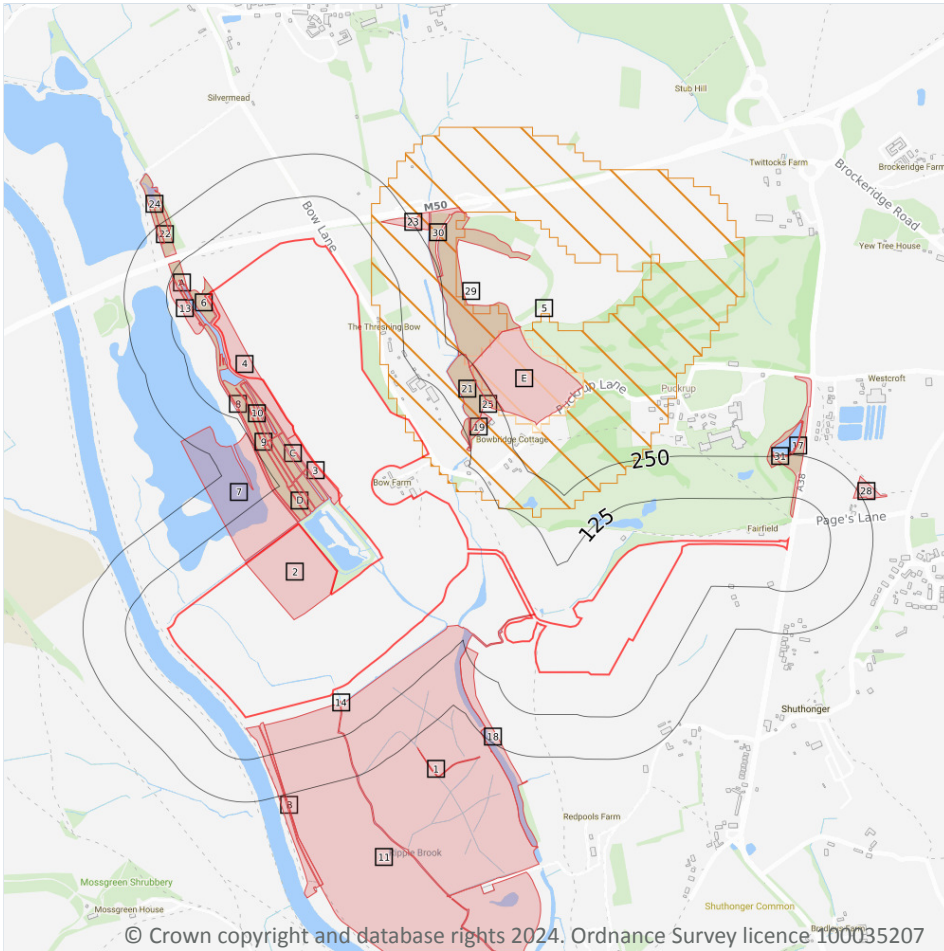


Location	Reference	Scheme	Start Date	End Date
211m E	1058367	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025

*This data is sourced from Natural England.*



## 14 Habitat designations



### 14.1 Priority Habitat Inventory

Records within 250m

42

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 90](#) >

ID	Location	Main Habitat	Other habitats
1	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
2	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
4	On site	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)
6	1m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	5m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
8	7m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	10m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	20m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	23m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	28m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
11	29m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
C	30m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
12	31m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	31m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
14	32m S	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
B	32m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
D	36m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
15	36m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
16	45m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
D	46m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	48m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	51m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
D	53m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
17	67m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	73m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	86m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
18	96m SE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
19	113m NE	No main habitat but additional habitats present	Additional: LMEAD (FEP 50%)
20	114m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
21	141m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: LMEAD (FEP 50%)
22	153m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
23	175m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
24	199m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
25	208m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: LMEAD (FEP 50%)
26	216m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
27	224m NE	No main habitat but additional habitats present	Main habitat: DWOOD (INV > 50%); Additional: LMEAD (FEP 50%)
28	228m E	Traditional orchard	Overruled by Traditional Orchards HAP Inventory dataset
29	237m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: LMEAD (FEP 50%)
30	241m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: LMEAD (FEP 50%)
31	245m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
E	247m NE	Good quality semi-improved grassland	Main habitat: LMEAD (FEP + HLS)

This data is sourced from Natural England.

## 14.2 Habitat Networks

Records within 250m

2

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 90 >](#)

ID	Location	Type	Habitat
5	On site	Network Enhancement Zone 1	Not specified
E	221m NE	Habitat Restoration-Creation	Not specified

This data is sourced from Natural England.



### 14.3 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.*

### 14.4 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.*



## 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> ↗.

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