Groundsure
LOCATION INTELLIGENCE

Enviro+Geo
Insight

16, AIR BALLOON ROAD, ST GEORGE, BRISTOL, BS5 8LA

Order Details

Date: 02/07/2020

Your ref: 001MAHIP1

Our Ref: WES-6830803

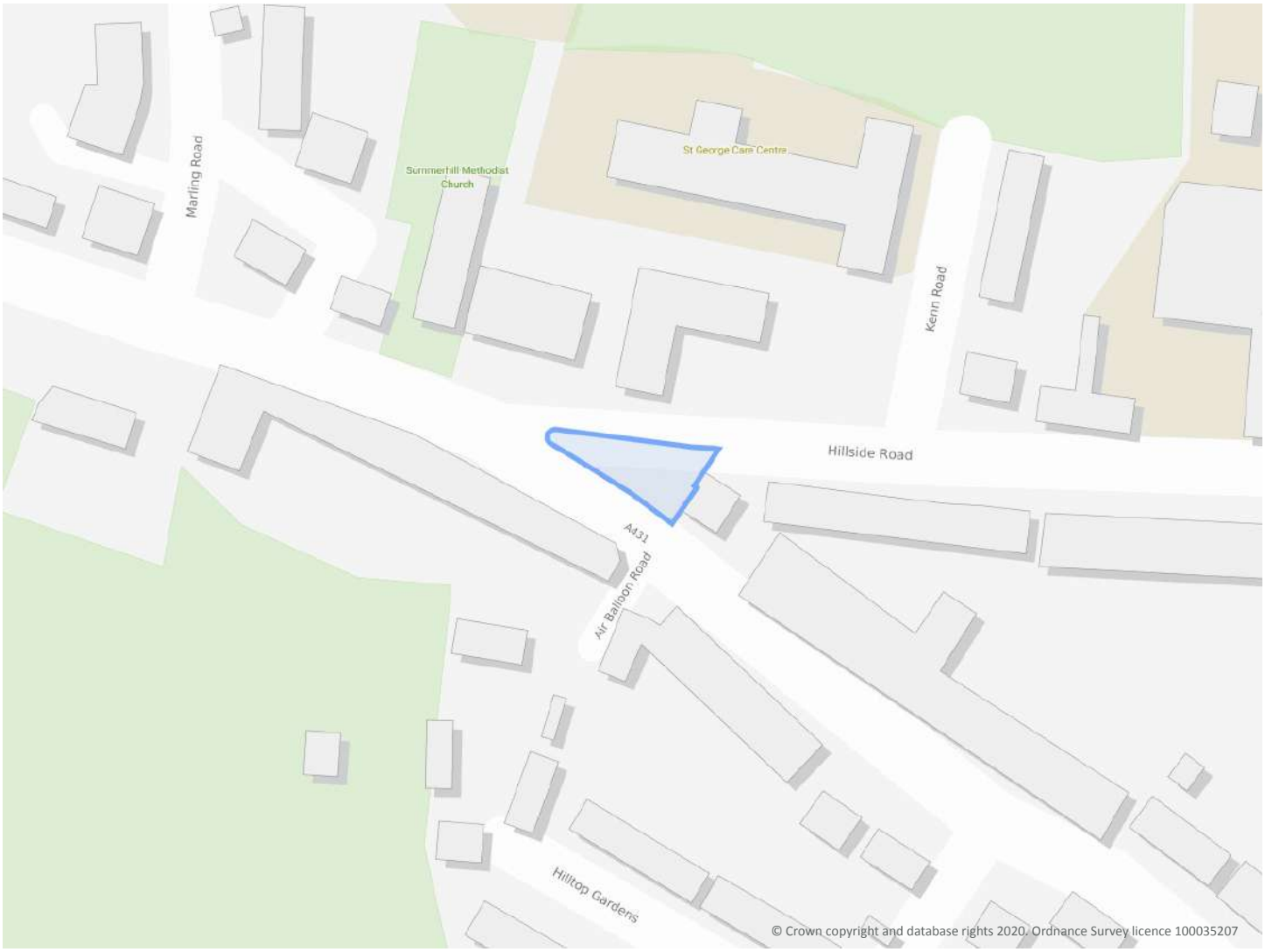
Client: Wesson Environmental

Site Details

Location: 363082 173427

Area: 0.04 ha

Authority: Bristol City Council



Contact us with any questions at:
info@groundsure.com
08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	Historical industrial land uses	0	0	22	65	-
18	1.2	Historical tanks	0	0	0	11	-
19	1.3	Historical energy features	0	7	1	17	-
20	1.4	Historical petrol stations	0	0	0	1	-
20	1.5	Historical garages	0	0	5	7	-
21	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
22	2.1	Historical industrial land uses	0	0	38	106	-
28	2.2	Historical tanks	0	0	0	16	-
29	2.3	Historical energy features	0	11	4	45	-
31	2.4	Historical petrol stations	0	0	0	2	-
31	2.5	Historical garages	0	0	8	20	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
33	3.1	Active or recent landfill	0	0	0	0	-
33	3.2	Historical landfill (BGS records)	0	0	0	0	-
34	3.3	Historical landfill (LA/mapping records)	0	0	0	2	-
34	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
34	3.5	Historical waste sites	0	0	0	1	-
35	3.6	Licensed waste sites	0	0	0	0	-
35	3.7	Waste exemptions	0	2	0	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
36	4.1	Recent industrial land uses	0	3	1	-	-
37	4.2	Current or recent petrol stations	0	0	0	2	-
37	4.3	Electricity cables	0	0	0	0	-
37	4.4	Gas pipelines	0	0	0	0	-
38	4.5	Sites determined as Contaminated Land	0	0	0	0	-

38	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
38	4.7	Regulated explosive sites	0	0	0	0	-
38	4.8	Hazardous substance storage/usage	0	0	0	0	-
38	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
39	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
39	**4.11**	**Licensed pollutant release (Part A(2)/B)**	0	0	0	1	-
39	4.12	Radioactive Substance Authorisations	0	0	0	0	-
39	**4.13**	**Licensed Discharges to controlled waters**	0	0	1	6	-
41	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
41	4.15	Pollutant release to public sewer	0	0	0	0	-
41	4.16	List 1 Dangerous Substances	0	0	0	0	-
41	4.17	List 2 Dangerous Substances	0	0	0	0	-
41	**4.18**	**Pollution Incidents (EA/NRW)**	0	0	0	2	-
42	4.19	Pollution inventory substances	0	0	0	0	-
42	4.20	Pollution inventory waste transfers	0	0	0	0	-
42	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
43	5.1	Superficial aquifer	None (within 500m)				
44	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
45	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
46	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
46	5.5	Groundwater vulnerability- local information	None (within 0m)				
47	5.6	Groundwater abstractions	0	0	0	0	0
48	**5.7**	**Surface water abstractions**	0	0	0	0	1
48	5.8	Potable abstractions	0	0	0	0	0
48	5.9	Source Protection Zones	0	0	0	0	-
48	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
50	6.1	Water Network (OS MasterMap)	0	0	0	-	-

50	6.2	Surface water features	0	0	0	-	-
51	**6.3**	**WFD Surface water body catchments**	1	-	-	-	-
51	**6.4**	**WFD Surface water bodies**	0	0	0	-	-
52	**6.5**	**WFD Groundwater bodies**	2	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
53	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
53	7.2	Historical Flood Events	0	0	0	-	-
53	7.3	Flood Defences	0	0	0	-	-
53	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
54	7.5	Flood Storage Areas	0	0	0	-	-
55	7.6	Flood Zone 2	None (within 50m)				
55	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
56	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding					
57	**9.1**	**Groundwater flooding**	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
58	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
59	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
59	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
59	10.4	Special Protection Areas (SPA)	0	0	0	0	0
59	10.5	National Nature Reserves (NNR)	0	0	0	0	0
60	**10.6**	**Local Nature Reserves (LNR)**	0	0	1	0	3
60	**10.7**	**Designated Ancient Woodland**	0	0	0	0	5
61	10.8	Biosphere Reserves	0	0	0	0	0
61	10.9	Forest Parks	0	0	0	0	0
61	10.10	Marine Conservation Zones	0	0	0	0	0
61	**10.11**	**Green Belt**	0	0	0	0	2
62	10.12	Proposed Ramsar sites	0	0	0	0	0

62	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
62	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
62	10.15	Nitrate Sensitive Areas	0	0	0	0	0
63	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
64	**10.17**	**SSSI Impact Risk Zones**	1	-	-	-	-
65	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
66	11.1	World Heritage Sites	0	0	0	-	-
67	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
67	11.3	National Parks	0	0	0	-	-
67	**11.4**	**Listed Buildings**	0	0	5	-	-
68	**11.5**	**Conservation Areas**	0	0	1	-	-
68	11.6	Scheduled Ancient Monuments	0	0	0	-	-
68	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
69	**12.1**	**Agricultural Land Classification**	Urban (within 250m)				
70	12.2	Open Access Land	0	0	0	-	-
70	12.3	Tree Felling Licences	0	0	0	-	-
70	12.4	Environmental Stewardship Schemes	0	0	0	-	-
70	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
71	**13.1**	**Priority Habitat Inventory**	0	0	1	-	-
72	**13.2**	**Habitat Networks**	1	0	1	-	-
72	**13.3**	**Open Mosaic Habitat**	0	0	1	-	-
72	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
74	**14.1**	**10k Availability**	Identified (within 500m)				
75	**14.2**	**Artificial and made ground (10k)**	0	0	3	4	-
77	14.3	Superficial geology (10k)	0	0	0	0	-

77	14.4	Landslip (10k)	0	0	0	0	-
78	14.5	Bedrock geology (10k)	1	2	3	5	-
79	14.6	Bedrock faults and other linear features (10k)	0	1	3	9	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
81	15.1	50k Availability	Identified (within 500m)				
82	15.2	Artificial and made ground (50k)	0	0	1	3	-
83	15.3	Artificial ground permeability (50k)	0	0	-	-	-
84	15.4	Superficial geology (50k)	0	0	0	0	-
84	15.5	Superficial permeability (50k)	None (within 50m)				
84	15.6	Landslip (50k)	0	0	0	0	-
84	15.7	Landslip permeability (50k)	None (within 50m)				
85	15.8	Bedrock geology (50k)	1	2	2	5	-
86	15.9	Bedrock permeability (50k)	Identified (within 50m)				
86	15.10	Bedrock faults and other linear features (50k)	0	1	2	7	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
88	16.1	BGS Boreholes	0	1	0	-	-
Page	Section	Natural ground subsidence					
89	17.1	Shrink swell clays	Very low (within 50m)				
90	17.2	Running sands	Negligible (within 50m)				
91	17.3	Compressible deposits	Negligible (within 50m)				
92	17.4	Collapsible deposits	Very low (within 50m)				
93	17.5	Landslides	Low (within 50m)				
95	17.6	Ground dissolution of soluble rocks	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
96	18.1	Natural cavities	0	0	0	0	-
97	18.2	BritPits	0	1	0	6	-
98	18.3	Surface ground workings	0	0	28	-	-
99	18.4	Underground workings	0	0	0	0	3
99	18.5	Historical Mineral Planning Areas	0	0	0	0	-

100	**18.6**	**Non-coal mining**	0	1	0	0	0
100	18.7	Mining cavities	0	0	0	0	0
100	18.8	JPB mining areas	None (within 0m)				
100	**18.9**	**Coal mining**	Identified (within 0m)				
101	18.10	Brine areas	None (within 0m)				
101	18.11	Gypsum areas	None (within 0m)				
101	18.12	Tin mining	None (within 0m)				
101	18.13	Clay mining	None (within 0m)				

Page	Section	Radon					
102	**19.1**	**Radon**	Less than 1% (within 0m)				

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
103	**20.1**	**BGS Estimated Background Soil Chemistry**	1	2	-	-	-
103	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
103	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

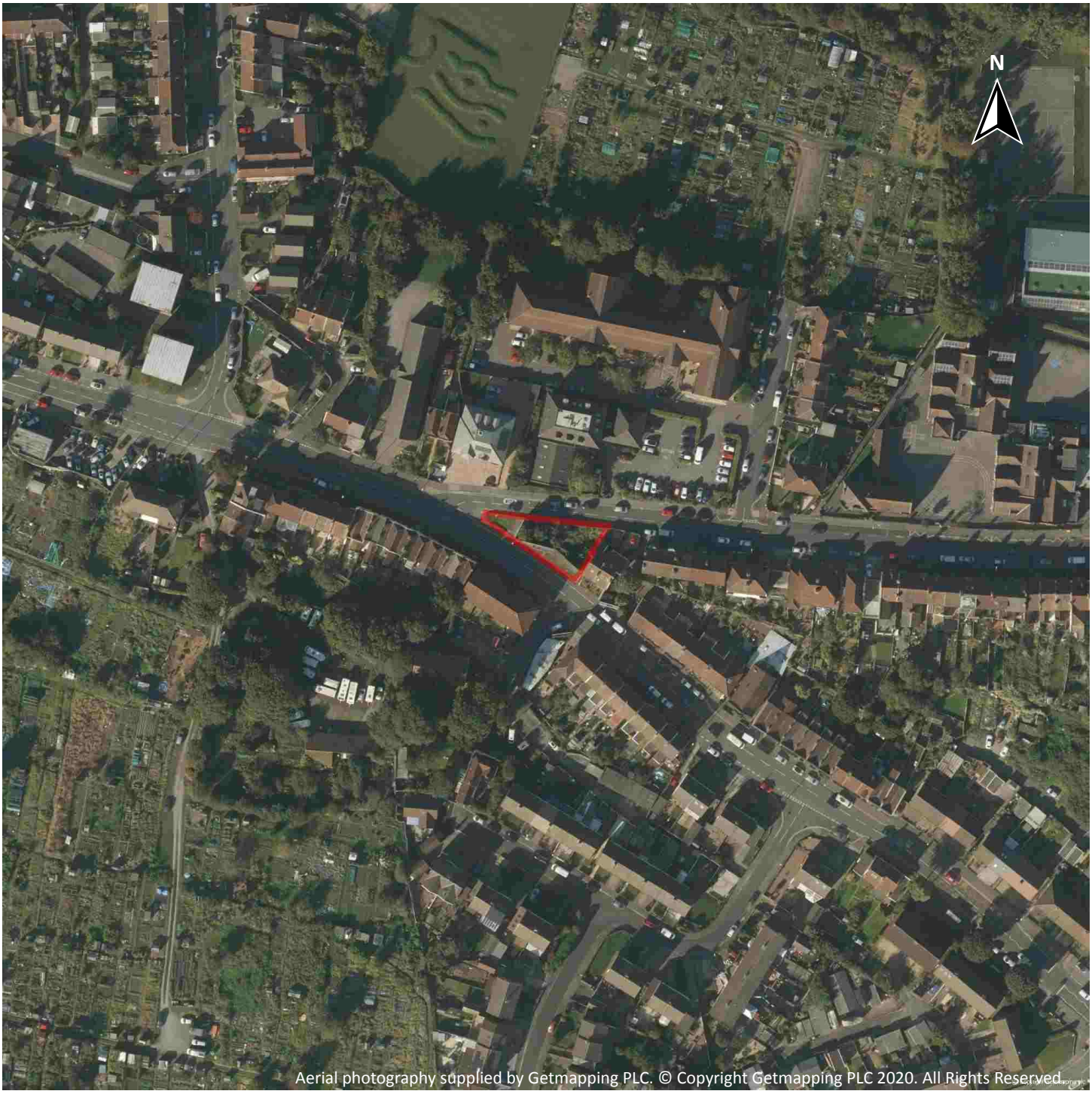
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
104	21.1	Underground railways (London)	0	0	0	-	-
104	21.2	Underground railways (Non-London)	0	0	0	-	-
104	21.3	Railway tunnels	0	0	0	-	-
104	21.4	Historical railway and tunnel features	0	0	0	-	-
104	21.5	Royal Mail tunnels	0	0	0	-	-
105	21.6	Historical railways	0	0	0	-	-
105	21.7	Railways	0	0	0	-	-
105	21.8	Crossrail 1	0	0	0	0	-
105	21.9	Crossrail 2	0	0	0	0	-
105	21.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 14/06/2017

Site Area: 0.04ha

Recent site history - 2016 aerial photograph



Capture Date: 05/10/2016

Site Area: 0.04ha

Recent site history - 2009 aerial photograph

Capture Date: 01/06/2009

Site Area: 0.04ha

Recent site history - 2006 aerial photograph

Capture Date: 05/06/2006

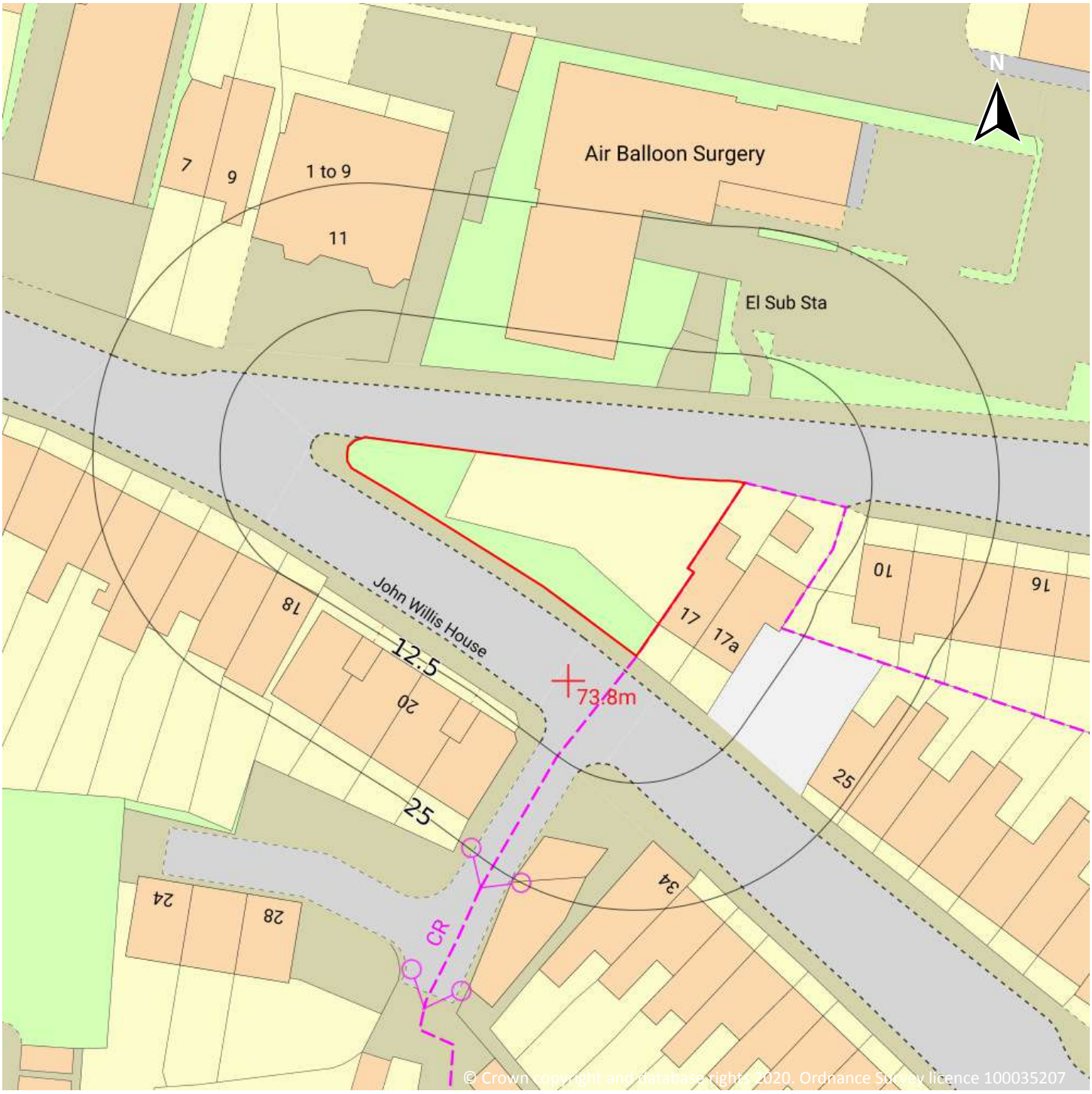
Site Area: 0.04ha

Recent site history - 1999 aerial photograph

Capture Date: 24/07/1999

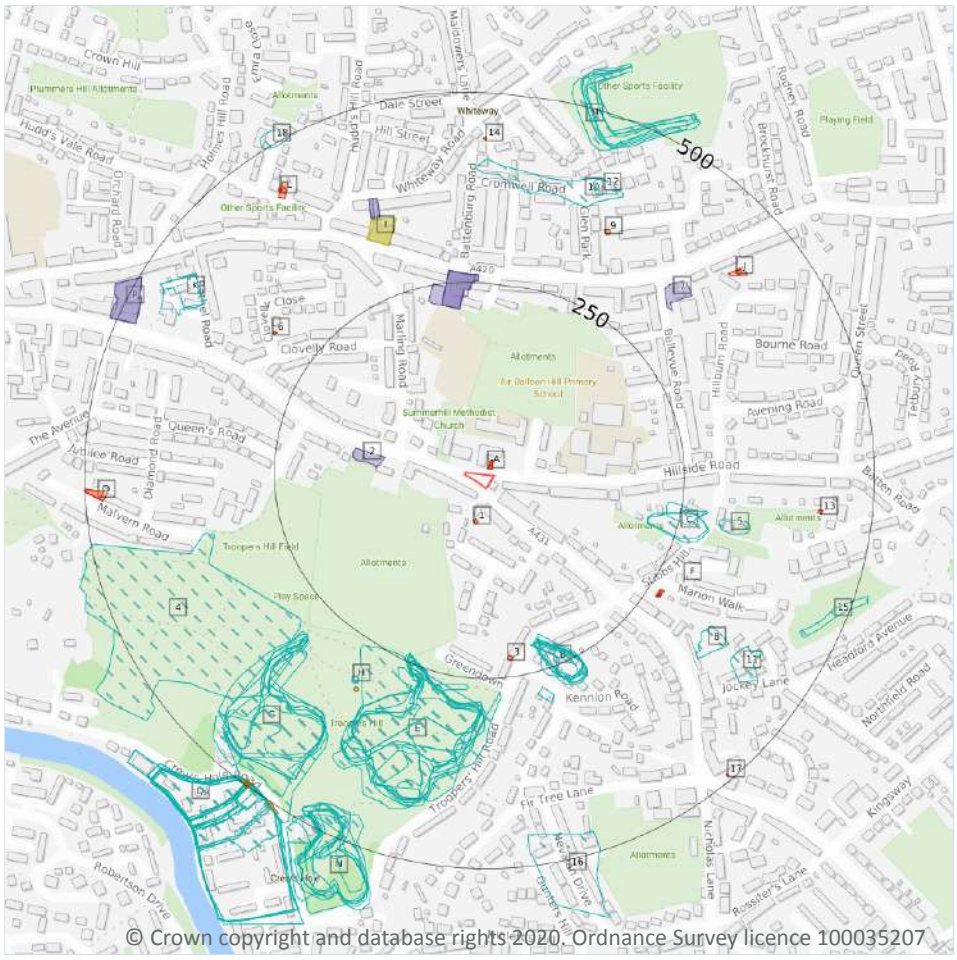
Site Area: 0.04ha

OS MasterMap site plan



Site Area: 0.04ha

1 Past land use



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Site Outline

Search buffers in metres (m)

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

1.1 Historical industrial land uses

Records within 500m	87

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 14**

ID	Location	Land use	Dates present	Group ID
B	203m S	Unspecified Pit	1955	1200360

ID	Location	Land use	Dates present	Group ID
B	208m S	Unspecified Pit	1921 - 1938	1192074
B	208m S	Unspecified Old Quarry	1902	1195007
B	209m S	Unspecified Pit	1938	1264298
C	210m E	Unspecified Old Quarry	1902	1234697
C	210m E	Old Quarry	1900	1212887
B	212m S	Unspecified Pit	1921	1209106
B	212m S	Unspecified Pit	1938	1250955
B	212m S	Old Quarry	1882	1259491
B	215m S	Old Quarry	1900	1215542
B	218m S	Unspecified Ground Workings	1913	1161143
C	230m E	Old Quarry	1882	1205490
E	239m SW	Unspecified Quarry	1921 - 1930	1194806
E	239m SW	Unspecified Quarry	1902	1222848
E	239m SW	Unspecified Old Quarry	1938	1262615
E	241m SW	Unspecified Old Quarry	1938	1249916
E	243m SW	Unspecified Quarry	1902	1190792
E	243m SW	Unspecified Old Quarry	1938	1212616
E	246m SW	Quarry	1900	1255950
E	246m SW	Unspecified Ground Workings	1955 - 1986	1270576
E	247m S	Unspecified Old Quarry	1938	1196377
E	248m SW	Unspecified Old Quarry	1913 - 1921	1247207
E	258m S	Quarry	1882	1253565
E	269m S	Unspecified Ground Workings	1882	1209166
B	271m S	Iron Room	1913	1180091
4	288m SW	Refuse Heap	1973 - 1986	1203629
G	294m SW	Unspecified Old Quarry	1921 - 1938	1266091
G	296m SW	Unspecified Ground Workings	1955 - 1986	1262939
G	298m SW	Unspecified Old Quarry	1921	1202423

ID	Location	Land use	Dates present	Group ID
G	298m SW	Unspecified Old Quarry	1938	1216856
G	298m SW	Unspecified Old Quarry	1902	1252619
H	300m SW	Chimney	1955	1182827
G	300m SW	Old Quarry	1900	1222420
H	301m SW	Disused Chimney	1973 - 1986	1247950
5	302m E	Old Quarry	1882	1250371
G	313m SW	Unspecified Old Quarry	1938	1250571
8	340m SE	Nursery	1955	1179831
E	351m S	Refuse	1938	1162106
E	351m S	Refuse Heap	1902	1178412
E	356m S	Unspecified Ground Workings and Heap	1900	1207085
G	371m SW	Unspecified Old Quarry	1913	1245947
10	374m N	Unspecified Pit	1882	1190191
G	378m SW	Quarry	1882	1190659
11	392m SE	Foundry	1882	1262247
12	394m N	Unspecified Pit	1955	1216246
K	409m NW	Boot Factory	1921 - 1938	1217888
K	409m NW	Boot Factory	1913	1229290
M	450m N	Unspecified Heap	1921	1256621
15	451m SE	Unspecified Ground Workings	1986	1161142
M	458m N	Unspecified Heap	1938	1201643
16	459m S	Nursery	1955	1179832
M	460m N	Unspecified Ground Workings	1900	1201017
M	460m N	Unspecified Disused Shed	1955	1189372
M	462m N	Unspecified Heap	1902	1211411
N	462m S	Unspecified Ground Workings	1973 - 1986	1236847
N	462m SW	Unspecified Ground Workings	1955 - 1965	1214347
N	465m SW	Unspecified Old Quarry	1938	1237973

ID	Location	Land use	Dates present	Group ID
N	467m SW	Unspecified Old Quarry	1938	1245906
N	469m SW	Unspecified Ground Workings	1938	1197134
N	469m SW	Unspecified Ground Workings	1902	1217015
N	470m SW	Unspecified Quarry	1902	1169969
N	470m SW	Unspecified Old Quarry	1921 - 1930	1272523
N	471m SW	Unspecified Old Quarry	1913	1248820
N	473m SW	Unspecified Ground Workings	1900	1202737
N	477m SW	Unspecified Old Quarry	1938	1246995
N	486m SW	Unspecified Old Quarry	1921	1258975
Q	493m SW	Fire Clay Works	1938	1236893
Q	493m SW	Chemical Works	1902	1253796
Q	493m SW	Chemical Works	1921 - 1938	1255432
Q	493m SW	Fire Clay Works	1902	1245445
Q	493m SW	Fire Clay Works	1921 - 1938	1269512
Q	495m SW	Unspecified Works	1938	1209811
Q	495m SW	Fire Clay Works	1921	1218863
Q	495m SW	Unspecified Works	1902	1251078
Q	495m SW	Brick and Tile Works	1882	1243023
Q	495m SW	Chemical Works	1882	1270717
Q	495m SW	Tar and Resin Works	1938	1219940
18	496m NW	Unspecified Pit	1882	1207282
Q	496m SW	Unspecified Commercial/Industrial	1955	1159192
Q	496m SW	Unspecified Works	1965 - 1973	1226290
Q	496m SW	Fireclay Works	1913	1224272
N	497m S	Gravel Pit	1955	1164792
Q	497m SW	Chemical Works	1913	1265745
Q	498m SW	Fireclay Works	1900	1248105
Q	498m SW	Chemical Works	1900	1260519

ID	Location	Land use	Dates present	Group ID
Q	500m SW	Tar and Resin Works	1921 - 1938	1230851
Q	500m SW	Unspecified Works	1902	1255277

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**11**

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 14**

ID	Location	Land use	Dates present	Group ID
F	286m SE	Unspecified Tank	1883	175063
H	311m SW	Unspecified Tank	1883	175064
Q	493m SW	Unspecified Tank	1949 - 1968	178532
Q	493m SW	Tanks	1968	181781
Q	493m SW	Tanks	1949 - 1969	192104
Q	493m SW	Tanks	1969	180726
Q	494m SW	Tanks	1968 - 1969	193579
Q	496m SW	Tanks	1949	185753
Q	496m SW	Tanks	1968	181487
Q	497m SW	Tanks	1949 - 1969	184948
Q	500m SW	Tanks	1948	169952

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	25

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'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	8m N	Electricity Substation	1986 - 1990	107165
A	8m N	Electricity Substation	1956	107295
A	8m N	Electricity Substation	1949	100083
A	8m N	Electricity Substation	1949	100810
A	8m N	Electricity Substation	1968	100830
A	14m N	Electricity Substation	1969	100205
1	42m S	Electricity Substation	1968 - 1990	111730
3	222m S	Electricity Substation	1968 - 1990	105300
F	264m SE	Electricity Substation	1986	100554
F	264m SE	Electricity Substation	1990	101955
F	265m SE	Electricity Substation	1968	100828
F	266m SE	Electricity Substation	1956	100824
F	267m SE	Electricity Substation	1969	101519
6	308m NW	Electricity Substation	1988 - 1991	111334
9	350m NE	Electricity Substation	1969 - 1992	104625
J	407m NE	Electricity Substation	1949	107049
J	415m NE	Electricity Substation	1968 - 1992	111014
13	429m E	Electricity Substation	1968 - 1990	112881
L	431m NW	Electricity Substation	1954	100364
L	437m NW	Electricity Substation	1949	100766
14	438m N	Electricity Substation	1990 - 1992	107737

ID	Location	Land use	Dates present	Group ID
L	442m NW	Electricity Substation	1988 - 1991	112474
O	470m W	Electricity Substation	1949	108347
O	475m W	Electricity Substation	1968 - 1995	103845
17	490m SE	Electricity Substation	1990	98311

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	**1**

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 14**

ID	Location	Land use	Dates present	Group ID
I	315m N	Filling Station	1991	2191

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	**12**

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 14**

ID	Location	Land use	Dates present	Group ID
2	106m W	Garage	1968 - 1969	36607
D	215m N	Garage	1992	32662
D	215m N	Garage	1961 - 1969	35035

ID	Location	Land use	Dates present	Group ID
D	215m N	Garage	1989 - 1990	36637
D	215m N	Garage	1968	33292
I	315m N	Garage	1964 - 1968	35669
I	315m N	Garage	1988 - 1990	35902
7	318m NE	Garage	1961	32230
I	351m N	Garage	1964 - 1991	35580
I	353m N	Garage	1954	32808
P	475m NW	Garage	1991	34037
P	475m NW	Garage	1988 - 1990	35984

This data is sourced from Ordnance Survey / Groundsure.

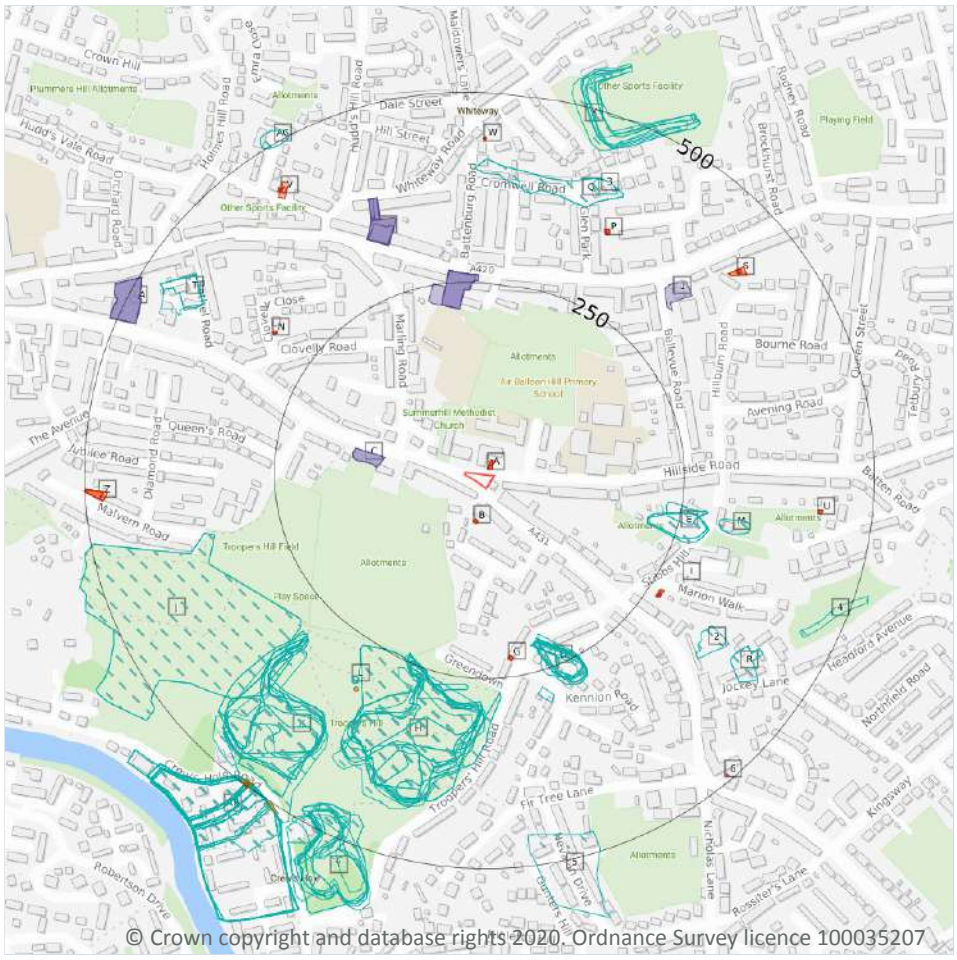
1.6 Historical military land

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



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Site Outline

Search buffers in metres (m)

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

2.1 Historical industrial land uses

Records within 500m	144

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 22**

ID	Location	Land Use	Date	Group ID
D	203m S	Unspecified Pit	1955	1200360
D	208m S	Unspecified Old Quarry	1902	1195007
D	208m S	Unspecified Pit	1930	1192074

ID	Location	Land Use	Date	Group ID
D	208m S	Unspecified Pit	1938	1192074
D	208m S	Unspecified Pit	1921	1192074
D	209m S	Unspecified Pit	1938	1264298
D	209m S	Unspecified Pit	1938	1264298
E	210m E	Unspecified Old Quarry	1902	1234697
E	210m E	Old Quarry	1900	1212887
E	210m E	Old Quarry	1900	1212887
E	211m E	Unspecified Old Quarry	1902	1234697
D	212m S	Unspecified Pit	1938	1250955
D	212m S	Unspecified Pit	1921	1209106
D	212m S	Old Quarry	1882	1259491
D	212m S	Old Quarry	1882	1259491
D	212m S	Unspecified Old Quarry	1902	1195007
D	215m S	Old Quarry	1900	1215542
D	215m S	Old Quarry	1900	1215542
D	218m S	Unspecified Ground Workings	1913	1161143
D	221m S	Unspecified Pit	1938	1250955
D	221m S	Unspecified Pit	1938	1250955
E	230m E	Old Quarry	1882	1205490
E	230m E	Old Quarry	1882	1205490
H	239m SW	Unspecified Quarry	1930	1194806
H	239m SW	Unspecified Quarry	1902	1222848
H	239m SW	Unspecified Old Quarry	1938	1262615
H	239m SW	Unspecified Quarry	1921	1194806
H	241m SW	Unspecified Old Quarry	1938	1249916
H	243m SW	Unspecified Old Quarry	1938	1212616
H	243m SW	Unspecified Quarry	1902	1190792
H	246m SW	Quarry	1900	1255950

ID	Location	Land Use	Date	Group ID
H	246m SW	Quarry	1900	1255950
H	246m SW	Unspecified Ground Workings	1973	1270576
H	246m SW	Unspecified Ground Workings	1965	1270576
H	246m SW	Unspecified Ground Workings	1986	1270576
H	246m SW	Unspecified Ground Workings	1955	1270576
H	247m S	Unspecified Old Quarry	1938	1196377
H	248m SW	Unspecified Old Quarry	1913	1247207
H	258m S	Quarry	1882	1253565
H	258m S	Quarry	1882	1253565
H	259m SW	Unspecified Old Quarry	1921	1247207
H	269m S	Unspecified Ground Workings	1882	1209166
H	269m S	Unspecified Ground Workings	1882	1209166
D	271m S	Iron Room	1913	1180091
J	288m SW	Refuse Heap	1973	1203629
J	288m SW	Refuse Heap	1986	1203629
K	294m SW	Unspecified Old Quarry	1938	1266091
K	296m SW	Unspecified Ground Workings	1965	1262939
K	296m SW	Unspecified Ground Workings	1955	1262939
K	298m SW	Unspecified Old Quarry	1938	1216856
K	298m SW	Unspecified Old Quarry	1902	1252619
K	298m SW	Unspecified Old Quarry	1921	1202423
L	300m SW	Chimney	1955	1182827
K	300m SW	Old Quarry	1900	1222420
K	300m SW	Old Quarry	1900	1222420
L	301m SW	Disused Chimney	1973	1247950
L	301m SW	Disused Chimney	1986	1247950
M	302m E	Old Quarry	1882	1250371
M	302m E	Old Quarry	1882	1250371

ID	Location	Land Use	Date	Group ID
K	306m SW	Unspecified Old Quarry	1930	1266091
K	306m SW	Unspecified Old Quarry	1902	1252619
K	306m SW	Unspecified Old Quarry	1938	1266091
K	306m SW	Unspecified Old Quarry	1921	1266091
K	313m SW	Unspecified Old Quarry	1938	1250571
2	340m SE	Nursery	1955	1179831
H	351m S	Refuse	1938	1162106
H	351m S	Refuse Heap	1902	1178412
H	356m S	Unspecified Ground Workings and Heap	1900	1207085
H	356m S	Unspecified Ground Workings and Heap	1900	1207085
K	371m SW	Unspecified Old Quarry	1913	1245947
Q	374m N	Unspecified Pit	1882	1190191
Q	374m N	Unspecified Pit	1882	1190191
K	378m SW	Quarry	1882	1190659
K	378m SW	Quarry	1882	1190659
K	390m SW	Unspecified Ground Workings	1973	1262939
K	390m SW	Unspecified Ground Workings	1986	1262939
R	392m SE	Foundry	1882	1262247
R	392m SE	Foundry	1882	1262247
3	394m N	Unspecified Pit	1955	1216246
T	409m NW	Boot Factory	1938	1217888
T	409m NW	Boot Factory	1921	1217888
T	409m NW	Boot Factory	1913	1229290
X	450m N	Unspecified Heap	1921	1256621
4	451m SE	Unspecified Ground Workings	1986	1161142
X	458m N	Unspecified Heap	1938	1201643
X	458m N	Unspecified Heap	1938	1201643
5	459m S	Nursery	1955	1179832

ID	Location	Land Use	Date	Group ID
X	460m N	Unspecified Ground Workings	1900	1201017
X	460m N	Unspecified Ground Workings	1900	1201017
X	460m N	Unspecified Disused Shed	1955	1189372
X	462m N	Unspecified Heap	1902	1211411
Y	462m S	Unspecified Ground Workings	1973	1236847
Y	462m S	Unspecified Ground Workings	1986	1236847
Y	462m SW	Unspecified Ground Workings	1965	1214347
Y	462m SW	Unspecified Ground Workings	1955	1214347
Y	465m SW	Unspecified Old Quarry	1938	1237973
Y	467m SW	Unspecified Old Quarry	1938	1245906
Y	469m SW	Unspecified Ground Workings	1938	1197134
Y	469m SW	Unspecified Ground Workings	1902	1217015
Y	470m SW	Unspecified Old Quarry	1930	1272523
Y	470m SW	Unspecified Quarry	1902	1169969
Y	470m SW	Unspecified Old Quarry	1921	1272523
Y	471m SW	Unspecified Old Quarry	1913	1248820
Y	473m SW	Unspecified Ground Workings	1900	1202737
Y	473m SW	Unspecified Ground Workings	1900	1202737
Y	477m SW	Unspecified Old Quarry	1938	1246995
Y	486m SW	Unspecified Old Quarry	1921	1258975
AB	493m SW	Chemical Works	1930	1255432
AB	493m SW	Chemical Works	1902	1253796
AB	493m SW	Fire Clay Works	1938	1236893
AB	493m SW	Chemical Works	1938	1255432
AB	493m SW	Chemical Works	1921	1255432
AB	493m SW	Fire Clay Works	1930	1269512
AB	493m SW	Fire Clay Works	1902	1245445
AB	493m SW	Fire Clay Works	1921	1269512

ID	Location	Land Use	Date	Group ID
AB	494m SW	Fire Clay Works	1938	1269512
AB	495m SW	Chemical Works	1938	1255432
AB	495m SW	Unspecified Works	1938	1209811
AB	495m SW	Unspecified Works	1902	1251078
AB	495m SW	Chemical Works	1902	1253796
AB	495m SW	Fire Clay Works	1921	1218863
AB	495m SW	Chemical Works	1921	1255432
AB	495m SW	Chemical Works	1938	1255432
AB	495m SW	Brick and Tile Works	1882	1243023
AB	495m SW	Brick and Tile Works	1882	1243023
AB	495m SW	Chemical Works	1882	1270717
AB	495m SW	Chemical Works	1882	1270717
AB	495m SW	Tar and Resin Works	1938	1219940
AC	496m NW	Unspecified Pit	1882	1207282
AC	496m NW	Unspecified Pit	1882	1207282
AB	496m SW	Unspecified Works	1973	1226290
AB	496m SW	Unspecified Works	1965	1226290
AB	496m SW	Unspecified Commercial/Industrial	1955	1159192
AB	496m SW	Fireclay Works	1913	1224272
Y	497m S	Gravel Pit	1955	1164792
AB	497m SW	Chemical Works	1913	1265745
AB	498m SW	Fireclay Works	1900	1248105
AB	498m SW	Chemical Works	1900	1260519
AB	498m SW	Fireclay Works	1900	1248105
AB	498m SW	Chemical Works	1900	1260519
AB	500m SW	Tar and Resin Works	1930	1230851
AB	500m SW	Unspecified Works	1902	1255277
AB	500m SW	Tar and Resin Works	1938	1230851

ID	Location	Land Use	Date	Group ID
AB	500m SW	Tar and Resin Works	1921	1230851

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**16**

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 22**

ID	Location	Land Use	Date	Group ID
I	286m SE	Unspecified Tank	1883	175063
L	311m SW	Unspecified Tank	1883	175064
AB	493m SW	Unspecified Tank	1949	178532
AB	493m SW	Unspecified Tank	1968	178532
AB	493m SW	Tanks	1949	192104
AB	493m SW	Tanks	1969	192104
AB	493m SW	Tanks	1968	181781
AB	493m SW	Tanks	1969	180726
AB	494m SW	Tanks	1968	193579
AB	494m SW	Tanks	1969	193579
AB	496m SW	Tanks	1949	185753
AB	496m SW	Tanks	1968	181487
AB	497m SW	Tanks	1949	184948
AB	497m SW	Tanks	1969	184948
AB	497m SW	Tanks	1949	185753
AB	500m SW	Tanks	1948	169952

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**60**

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'.

Features are displayed on the Past land use - un-grouped map on **page 22**

ID	Location	Land Use	Date	Group ID
A	8m N	Electricity Substation	1956	107295
A	8m N	Electricity Substation	1986	107165
A	8m N	Electricity Substation	1990	107165
A	8m N	Electricity Substation	1949	100810
A	8m N	Electricity Substation	1949	100083
A	8m N	Electricity Substation	1968	100830
A	14m N	Electricity Substation	1969	100205
B	42m S	Electricity Substation	1969	111730
B	42m S	Electricity Substation	1968	111730
B	42m S	Electricity Substation	1986	111730
B	42m S	Electricity Substation	1990	111730
G	222m S	Electricity Substation	1986	105300
G	222m S	Electricity Substation	1990	105300
G	222m S	Electricity Substation	1969	105300
G	222m S	Electricity Substation	1968	105300
I	264m SE	Electricity Substation	1986	100554
I	264m SE	Electricity Substation	1990	101955
I	265m SE	Electricity Substation	1968	100828
I	266m SE	Electricity Substation	1956	100824
I	267m SE	Electricity Substation	1969	101519
N	308m NW	Electricity Substation	1988	111334
N	308m NW	Electricity Substation	1990	111334
N	308m NW	Electricity Substation	1990	111334

ID	Location	Land Use	Date	Group ID
N	308m NW	Electricity Substation	1991	111334
N	308m NW	Electricity Substation	1991	111334
N	308m NW	Electricity Substation	1988	111334
P	350m NE	Electricity Substation	1992	104625
P	351m NE	Electricity Substation	1989	104625
P	351m NE	Electricity Substation	1990	104625
P	351m NE	Electricity Substation	1969	104625
S	407m NE	Electricity Substation	1949	107049
S	407m NE	Electricity Substation	1949	107049
S	415m NE	Electricity Substation	1989	111014
S	415m NE	Electricity Substation	1990	111014
S	417m NE	Electricity Substation	1992	111014
S	417m NE	Electricity Substation	1969	111014
S	417m NE	Electricity Substation	1968	111014
U	429m E	Electricity Substation	1976	112881
U	429m E	Electricity Substation	1969	112881
U	429m E	Electricity Substation	1985	112881
U	429m E	Electricity Substation	1990	112881
U	429m E	Electricity Substation	1968	112881
V	431m NW	Electricity Substation	1954	100364
V	437m NW	Electricity Substation	1949	100766
W	438m N	Electricity Substation	1990	107737
W	438m N	Electricity Substation	1992	107737
V	442m NW	Electricity Substation	1988	112474
V	442m NW	Electricity Substation	1990	112474
V	442m NW	Electricity Substation	1990	112474
V	442m NW	Electricity Substation	1991	112474
V	442m NW	Electricity Substation	1991	112474

ID	Location	Land Use	Date	Group ID
V	442m NW	Electricity Substation	1988	112474
Z	470m W	Electricity Substation	1949	108347
Z	470m W	Electricity Substation	1949	108347
Z	475m W	Electricity Substation	1969	103845
Z	475m W	Electricity Substation	1968	103845
Z	476m W	Electricity Substation	1995	103845
Z	476m W	Electricity Substation	1989	103845
Z	476m W	Electricity Substation	1991	103845
6	490m SE	Electricity Substation	1990	98311

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 22**

ID	Location	Land Use	Date	Group ID
O	315m N	Filling Station	1991	2191
O	315m N	Filling Station	1991	2191

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	**28**

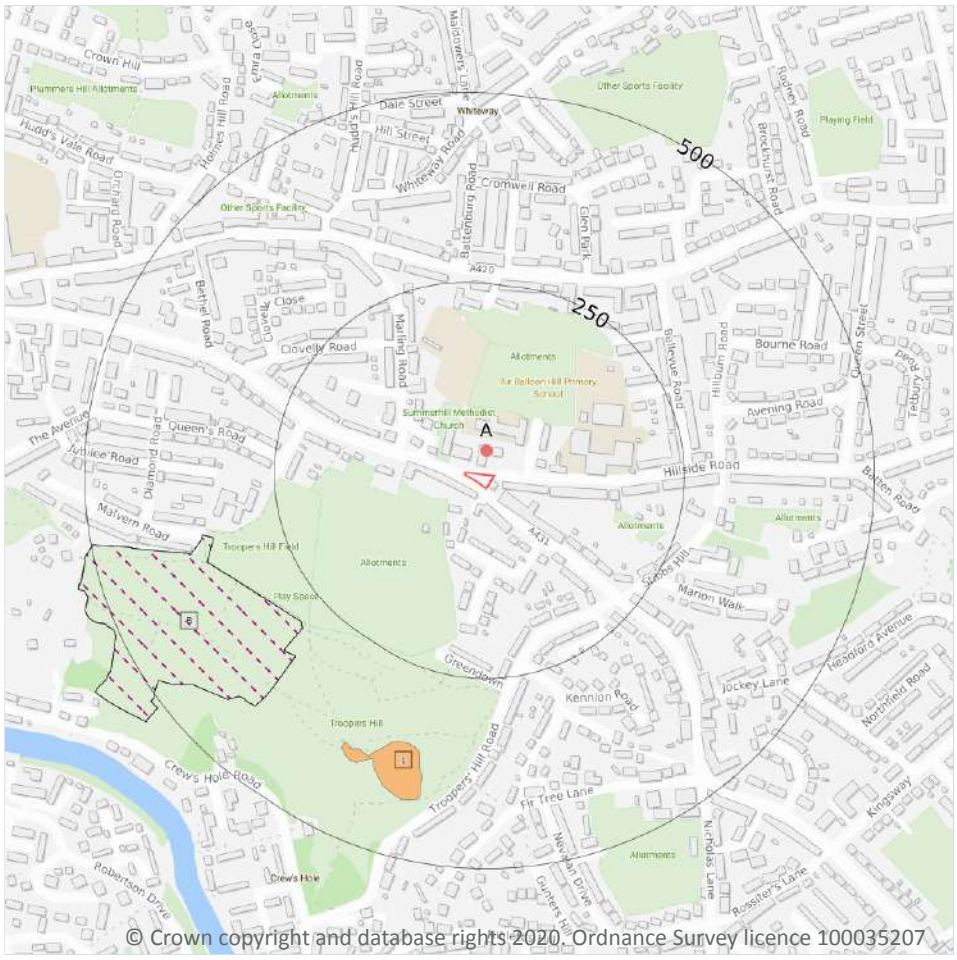
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 22**

ID	Location	Land Use	Date	Group ID
C	106m W	Garage	1968	36607
C	107m W	Garage	1969	36607
F	215m N	Garage	1989	36637
F	215m N	Garage	1990	36637
F	215m N	Garage	1992	32662
F	215m N	Garage	1961	35035
F	215m N	Garage	1969	35035
F	215m N	Garage	1968	33292
O	315m N	Garage	1968	35669
O	315m N	Garage	1988	35902
O	315m N	Garage	1990	35902
O	315m N	Garage	1990	35902
O	315m N	Garage	1988	35902
O	317m N	Garage	1964	35669
1	318m NE	Garage	1961	32230
O	351m N	Garage	1964	35580
O	351m N	Garage	1968	35580
O	352m N	Garage	1988	35580
O	352m N	Garage	1990	35580
O	352m N	Garage	1990	35580
O	352m N	Garage	1991	35580
O	352m N	Garage	1991	35580
O	352m N	Garage	1988	35580
O	353m N	Garage	1954	32808
AA	475m NW	Garage	1991	34037
AA	475m NW	Garage	1988	35984
AA	475m NW	Garage	1990	35984
AA	475m NW	Garage	1990	35984

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	2

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

Features are displayed on the Waste and landfill map on **page 33**

ID	Location	Site address	Source	Data type
B	289m SW	Refuse Tip	1968 mapping	Polygon
B	290m SW	Refuse Tip	1968 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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.

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

3.5 Historical waste sites

Records within 500m	1

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

Features are displayed on the Waste and landfill map on **page 33**

ID	Location	Address	Further Details	Date
1	350m S	Site Address: N/A	Type of Site: Refuse Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1938

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	2

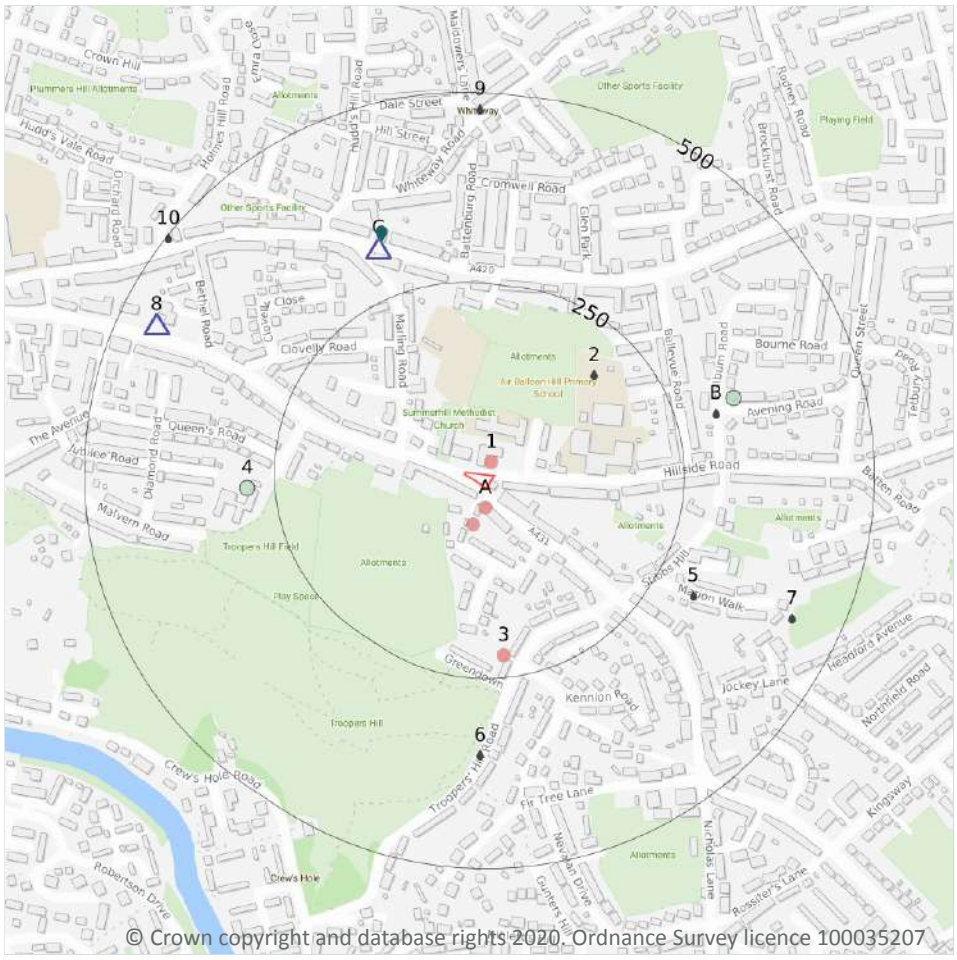
Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 33**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	31m N	KENN ROAD, BRISTOL, BS5 7PD	WEX133612	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	31m N	KENN ROAD, BRISTOL, BS5 7PD	WEX082560	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal

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

4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m	4

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 36**

ID	Location	Company	Address	Activity	Category
1	18m N	Electricity Sub Station	Bristol, BS5	Electrical Features	Infrastructure and Facilities
A	25m S	Air Balloon Road Garage	34, Air Balloon Road, Bristol, Bristol, BS5 8LA	Vehicle Repair, Testing and Servicing	Repair and Servicing

ID	Location	Company	Address	Activity	Category
A	50m S	Electricity Sub Station	Bristol, BS5	Electrical Features	Infrastructure and Facilities
3	220m S	Electricity Sub Station	Bristol, BS5	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**2**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 36**

ID	Location	Company	Address	LPG	Status
C	317m N	TEXACO	29, Bell Hill Road, St George, Bristol, Bristol, City Of, BS5 7LT	No	Open
8	450m NW	OBSOLETE	47-49, Summerhill Road, St George, Bristol, Bristol, City Of, BS5 8HG	Not Applicable	Obsolete

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 36**

ID	Location	Address	Details	
C	332m N	Whiteway Service Station, 19-29 Bell Hill Road, St George, Bristol, BS5 7LT	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notice Date of enforcement: No Enforcement Notice Comment: No Enforcement Notice

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	7

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 36**

ID	Location	Address	Details	
2	186m NE	BUDE AVENUE FOOTBALL PITCH CSO, ST GEORGES, BRISTOL	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 011180 Permit Version: 1 Receiving Water: UNKNOWN	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 12/09/1989 Revocation Date: 24/05/2005
B	302m E	HILLBURN ROAD CSO, JUNC AVENING ROAD, ST GEORGES, BRISTOL	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 011182 Permit Version: 1 Receiving Water: UNKNOWN	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 12/09/1989 Revocation Date: 11/08/2002
5	305m SE	OUTSIDE 36 MARION WALK, BRISTOL	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 011181 Permit Version: 1 Receiving Water: UNKNOWN	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: - Effective Date: 12/09/1989 Revocation Date: 06/03/2007
6	350m S	TROOPERS HILL ROAD, OUTSIDE MYRTLE HOUSE, BRISTOL	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 011177 Permit Version: 1 Receiving Water: UNKNOWN	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 12/09/1989 Revocation Date: 12/08/2002
7	434m SE	MARIOIN WALK, IN FIELD AT REAR OF NO22, BRISTOL	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 011237 Permit Version: 1 Receiving Water: UNKNOWN	Status: CONSENT REVOKED - DISCHARGE CEASED (WRA 91, SCHED 10 & 6) Issue date: - Effective Date: 12/09/1989 Revocation Date: 15/05/2006
9	478m N	OUTSIDE 65 WHITEWAY ROAD, BRISTOL	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 011176 Permit Version: 1 Receiving Water: UNKNOWN	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 12/09/1989 Revocation Date: 12/08/2002
10	497m NW	OPPOSITE 1 HOLMES HILL ROAD, BRISTOL	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 011170 Permit Version: 1 Receiving Water: UNKNOWN	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 12/09/1989 Revocation Date: 24/05/2005

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	2

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

Features are displayed on the Current industrial land use map on **page 36**

ID	Location	Details	
4	286m W	Incident Date: 15/01/2003 Incident Identification: 131119 Pollutant: Oils and Fuel Pollutant Description: Kerosene and Aviation Fuel	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	330m E	Incident Date: 07/04/2002 Incident Identification: 69512 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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 Hydrogeology - Superficial aquifer

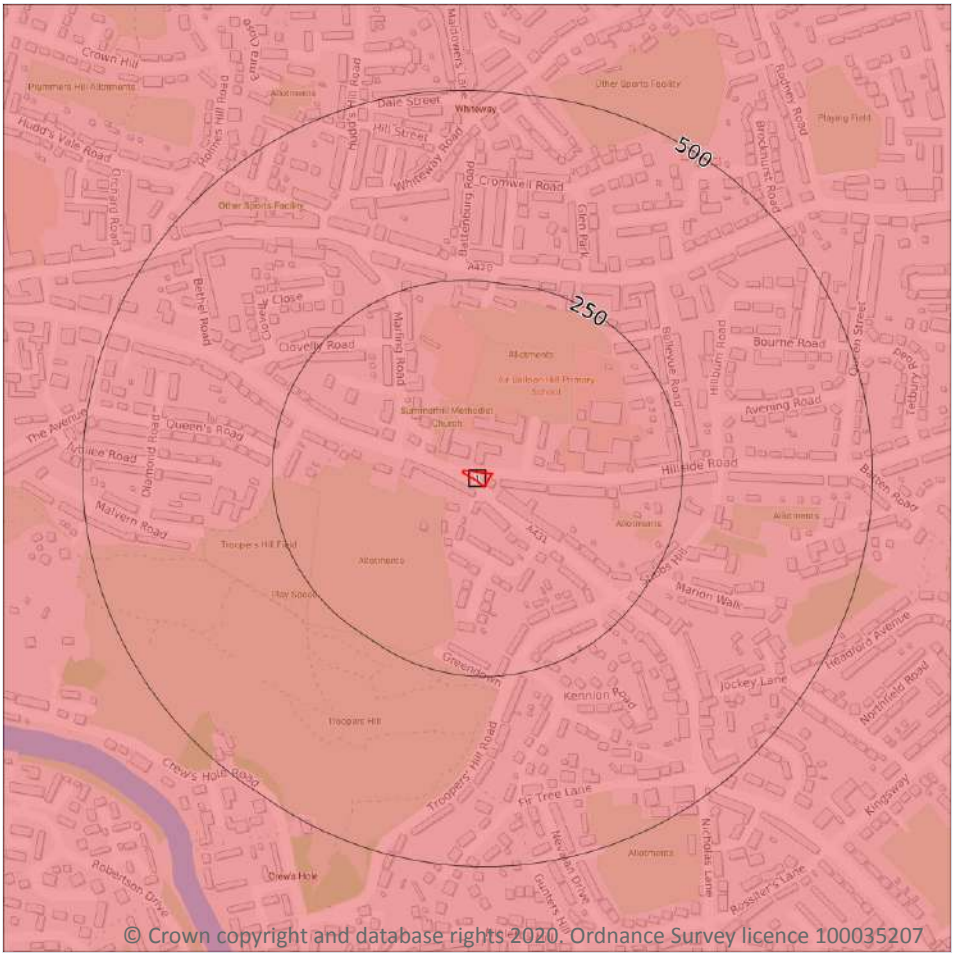
5.1 Superficial aquifer

Records within 500m	0

Aquifer status of groundwater held within superficial geology.

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m	1

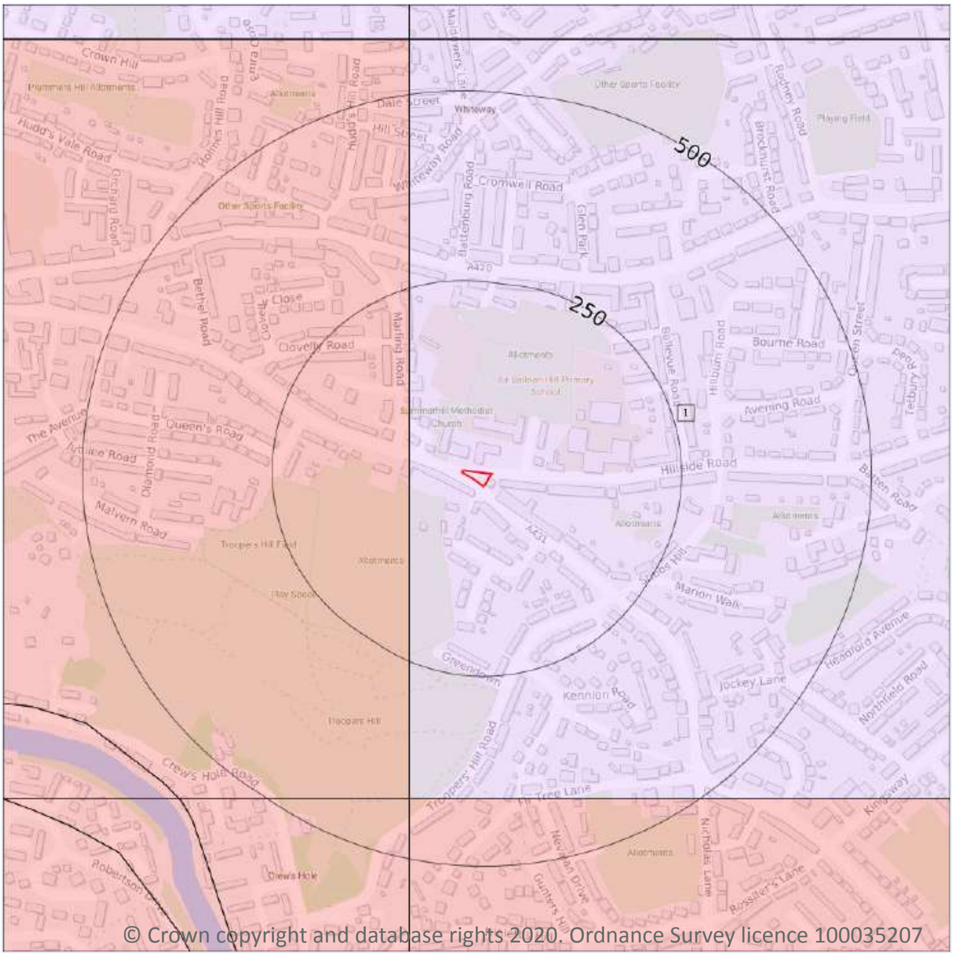
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 44**

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**

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	1

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 45**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year**	**Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures**

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	**0**

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

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

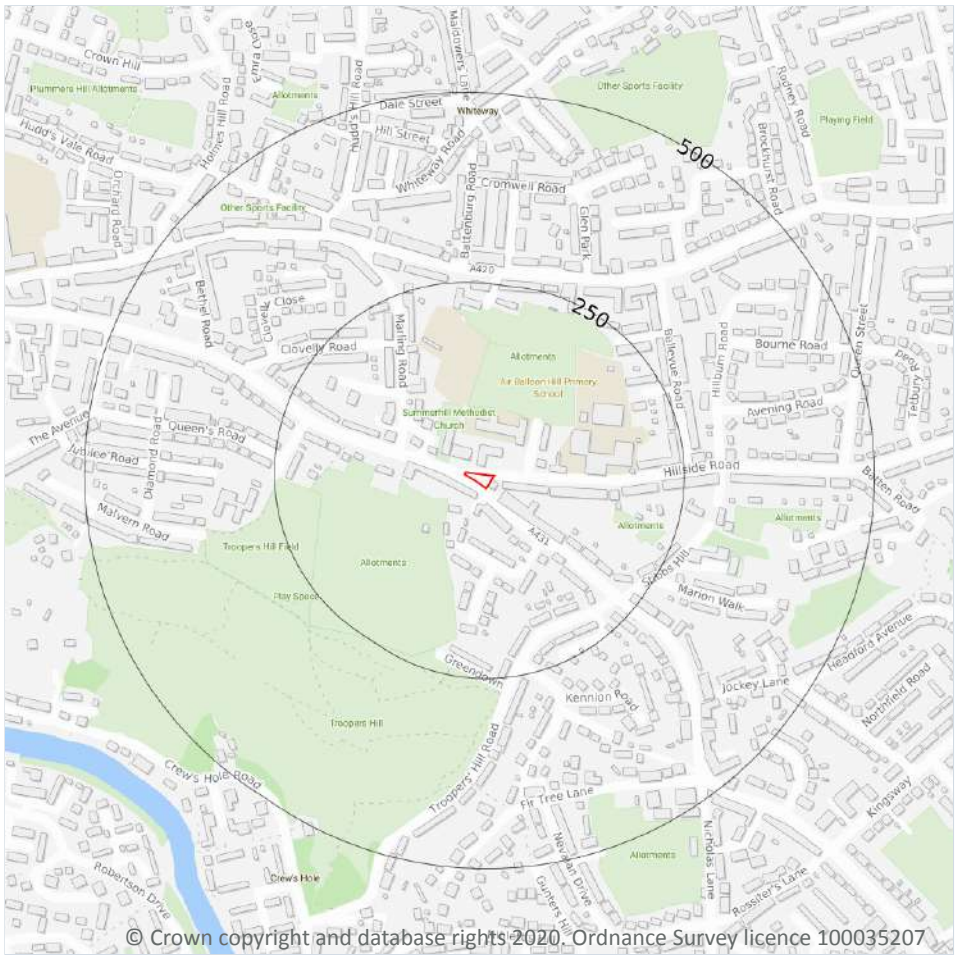
5.5 Groundwater vulnerability- local information

Records on site	**0**

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

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

Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m	0

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.

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

5.7 Surface water abstractions

Records within 2000m	1

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 47**

ID	Location	Details	
-	1740m SW	Status: Active Licence No: SW/053/0001/028 Details: Hydroelectric Power Generation Direct Source: Surface Water - Fresh Point: RIVER AVON AT NETHAM WEIR Data Type: Point Name: Bristol Community Energy Limited Easting: 361542 Northing: 172597	Annual Volume (m^3): 315,000,000 Max Daily Volume (m^3): 1,728,000 Original Application No: - Original Start Date: 21/03/2019 Expiry Date: 31/03/2029 Issue No: 1 Version Start Date: 21/03/2019 Version End Date: -

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

5.8 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.

5.9 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.

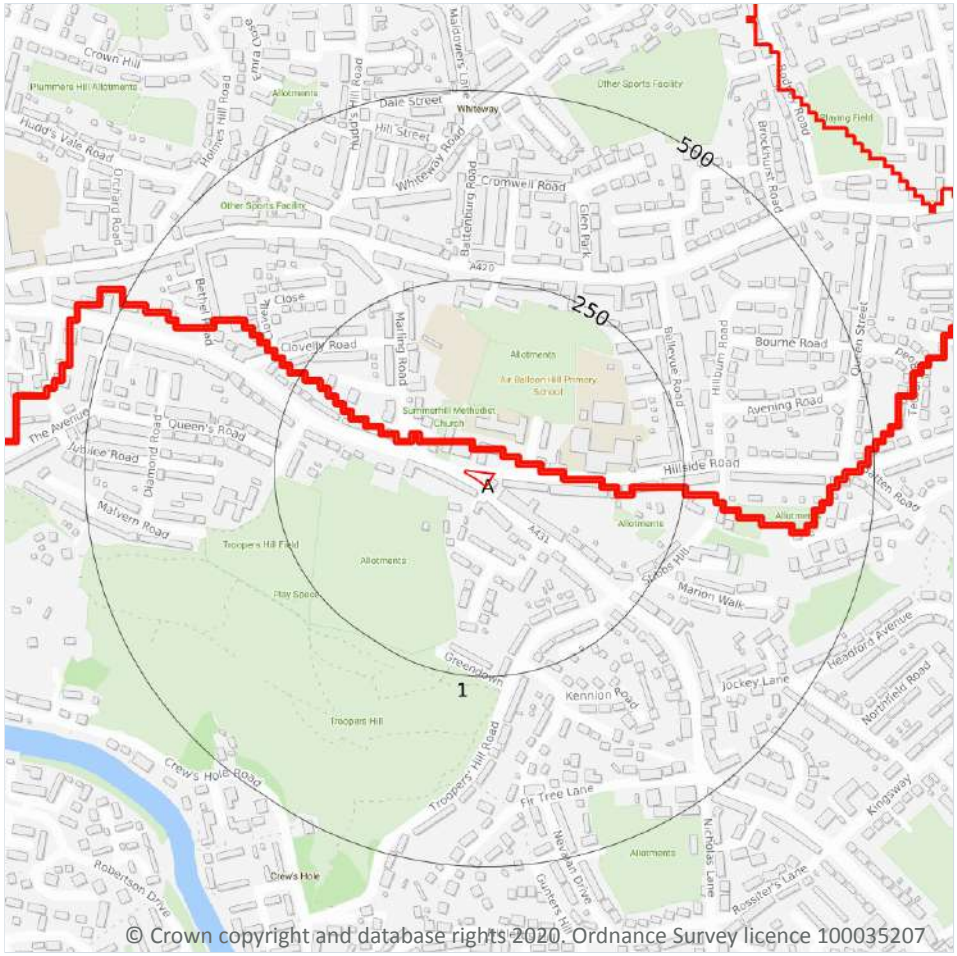
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



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Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	0

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.

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

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

Features are displayed on the Hydrology map on **page 50**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	**On site**	**River WB catchment**	**Bristol Avon (By Bk to Netham Weir)**	**GB109053027371**	**Bristol Avon Urban**	**Avon Bristol and North Somerset Streams**

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

6.4 WFD Surface water bodies

Records identified	1

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

Features are displayed on the Hydrology map on **page 50**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	595m SW	River	Bristol Avon (By Bk to Netham Weir)	GB109053027371	Moderate	Good	Moderate	2016

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

6.5 WFD Groundwater bodies

Records on site	2

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 50**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	**On site**	**Bristol Triassic**	**GB40902G804800**	**Poor**	**Poor**	**Good**	**2015**
A	**On site**	**Bristol Triassic**	**GB40902G804800**	**Poor**	**Poor**	**Good**	**2016**

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

7 River and coastal flooding

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m	0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

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

7.2 Historical Flood Events

Records within 250m	0

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

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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.

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

7.7 Flood Zone 3

Records within 50m	0

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.

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

8 Surface water flooding

8.1 Surface water flooding

Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

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.

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	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding

Site Outline

Search buffers in metres (m)

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

9.1 Groundwater flooding

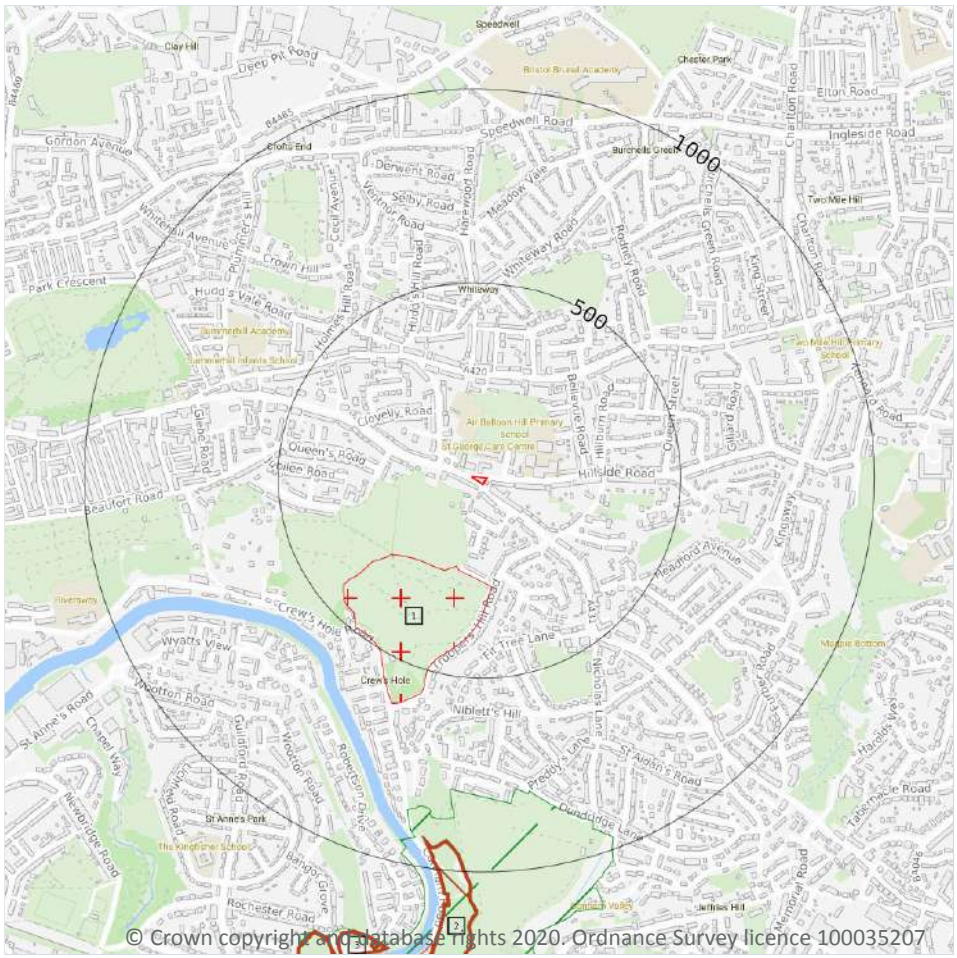
Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

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 57**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Local Nature Reserves (LNR)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	4

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

Features are displayed on the Environmental designations map on **page 58**

ID	Location	Name	Data source
1	221m S	Troopers Hill	Natural England
A	1193m S	Avon Valley Woodland	Natural England
-	1312m S	Avon Valley Woodland	Natural England
-	1674m NW	Royate Hill	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	5

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 58**

ID	Location	Name	Woodland Type
2	925m S	Unknown	Ancient & Semi-Natural Woodland
3	1200m S	BIRCH WOOD	Ancient & Semi-Natural Woodland
4	1233m S	BIRCH WOOD	Ancient & Semi-Natural Woodland
-	1625m S	Unknown	Ancient & Semi-Natural Woodland
-	1662m S	Unknown	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	2

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

Features are displayed on the Environmental designations map on **page 58**

ID	Location	Name	Local Authority name
A	789m S	Bath and Bristol	Bristol
-	1255m S	Bath and Bristol	South Gloucestershire

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	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.

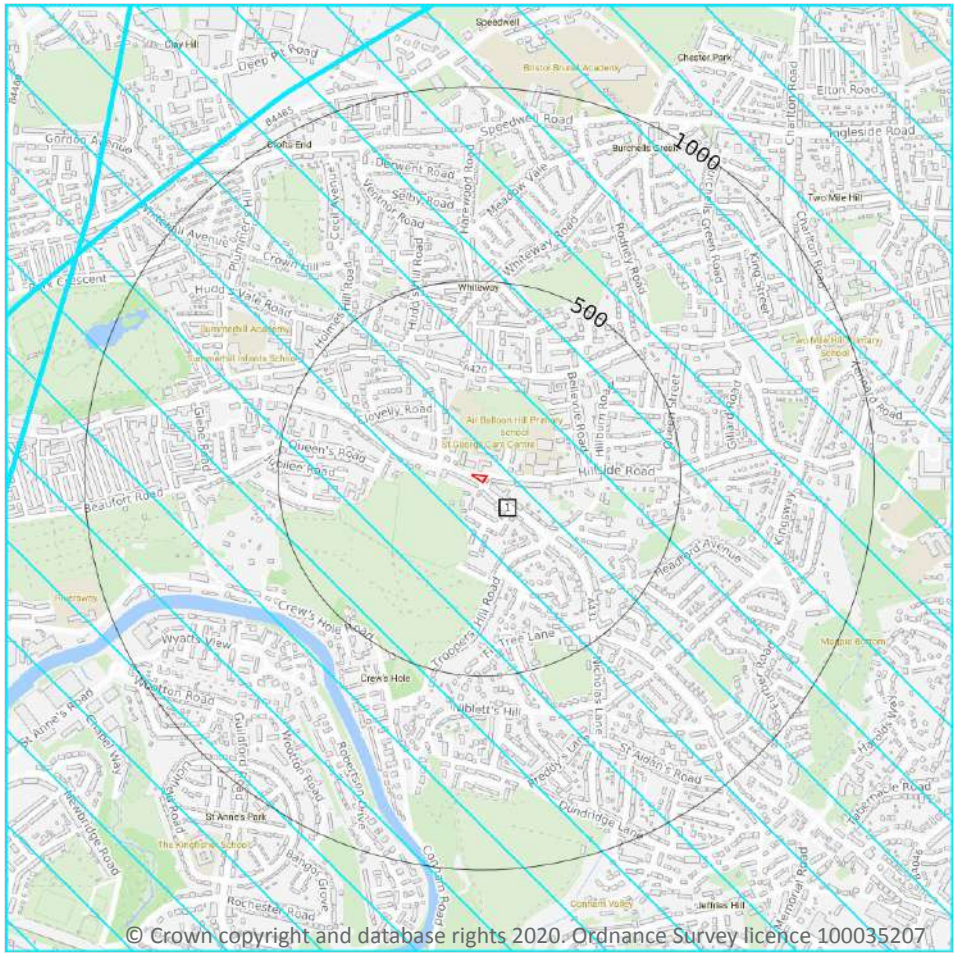
10.16 Nitrate Vulnerable Zones

Records within 2000m	0

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.

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

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 64**

ID	Location	Type of developments requiring consultation
1	**On site**	**Infrastructure - Airports, helipads and other aviation proposals.** **Minerals, Oil and Gas - Oil & gas exploration/extraction.** **Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t.** **Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.** **Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream (NB This does not include discharges to mains sewer which are unlikely to pose a risk at this location).**

This data is sourced from Natural England.

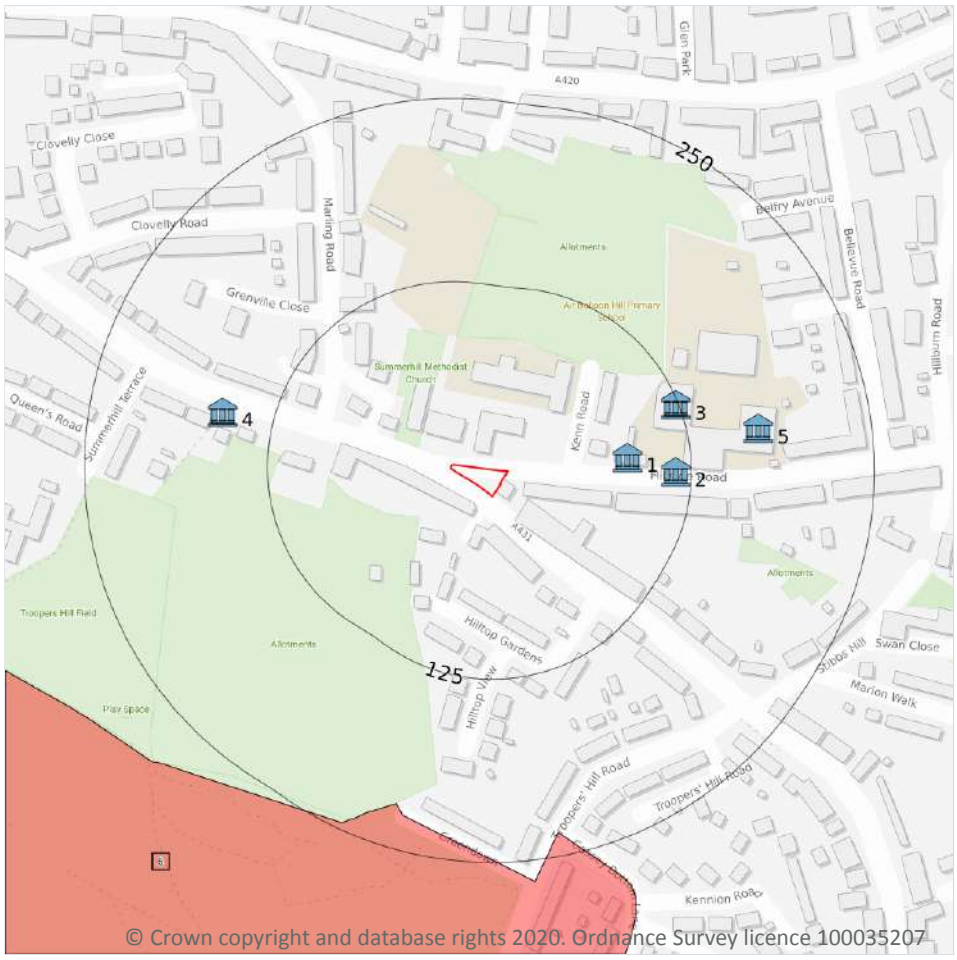
10.18 SSSI Units

Records within 2000m	**0**

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

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

11 Visual and cultural designations



Site Outline

Search buffers in metres (m)

- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	5

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

Features are displayed on the Visual and cultural designations map on **page 66**

ID	Location	Name	Grade	Reference Number	Listed date
1	82m E	Air Balloon Hill Council Schools Instruction Centre, Bristol, BS5	II	1208458	30/12/1994
2	114m E	Front Railings And Piers To Air Balloon Hill Council Schools, Bristol, BS5	II	1208471	30/12/1994
3	123m E	Air Balloon Hill Council Schools, Junior School, Bristol, BS5	II	1282264	30/12/1994
4	160m W	Milestone Between Numbers 124 And 126 (Numbers 124 And 126 Not Included), Bristol, BS5	II	1209012	04/03/1977
5	173m E	Air Balloon Hill Council Schools, Infant School, Bristol, BS5	II	1202299	30/12/1994

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

11.5 Conservation Areas

Records within 250m	1

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

Features are displayed on the Visual and cultural designations map on **page 66**

ID	Location	Name	District	Date of designation
6	220m S	Avon Valley	City of Bristol	18/02/1981

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

11.6 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 English Heritage, Cadw and Historic Environment Scotland.

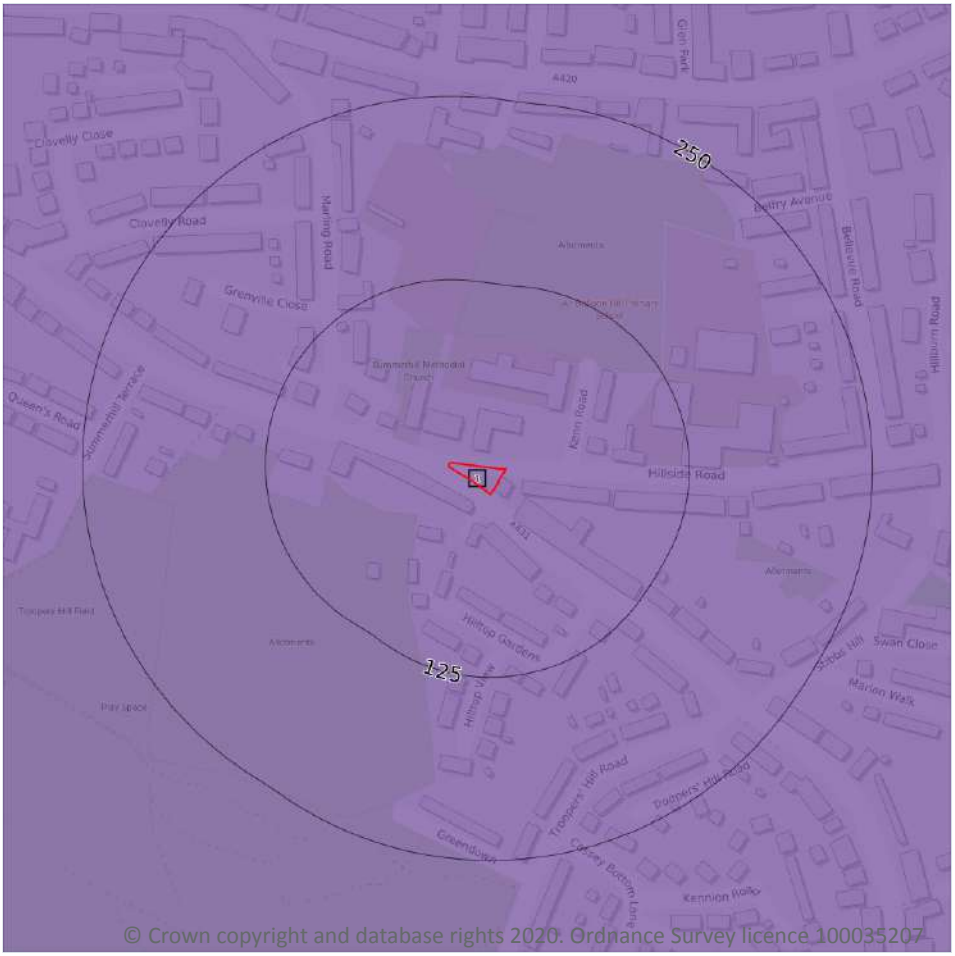
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	1

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 69**

ID	Location	Classification	Description
1	**On site**	**Urban**	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0

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

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

12.3 Tree Felling Licences

Records within 250m	0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

This data is sourced from Natural England.

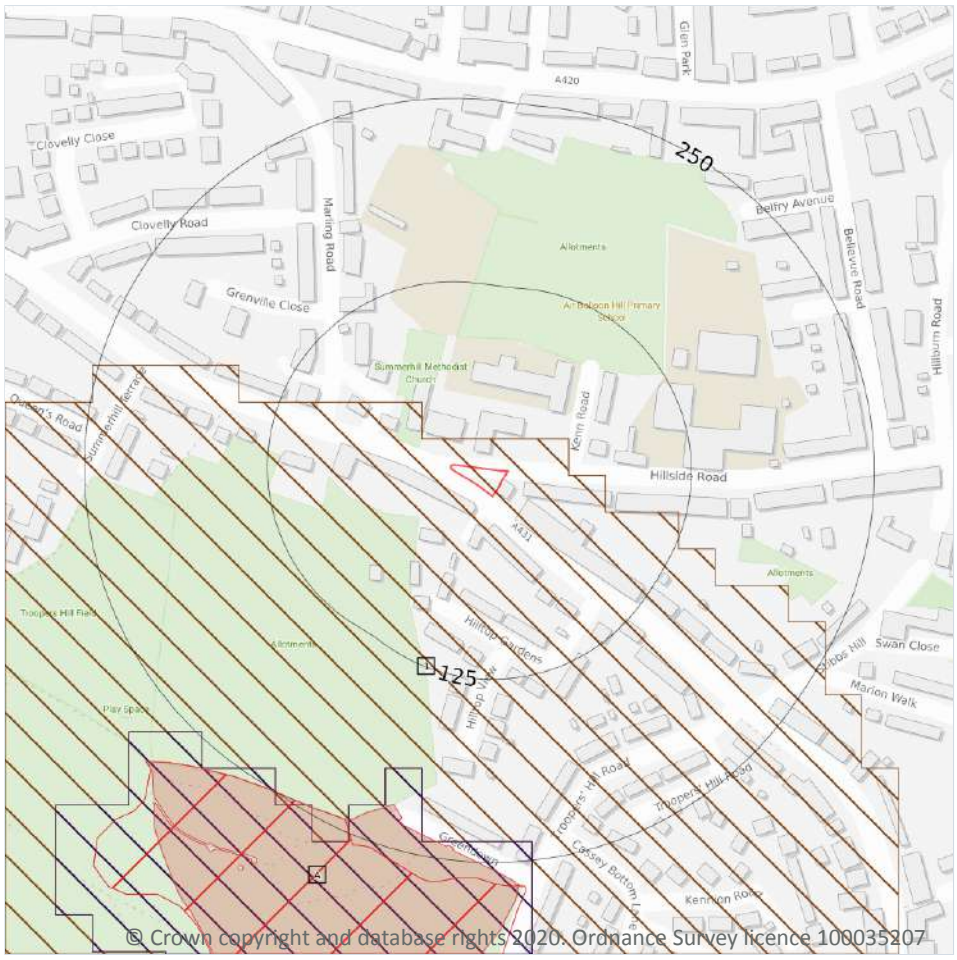
12.5 Countryside Stewardship Schemes

Records within 250m	0

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.

This data is sourced from Natural England.

13 Habitat designations



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks

Primary Habitat
Restorable Habitat
Associated Habitats
Habitat Restoration-Creation
Network Enhancement Zone 1
Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m	1

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 71**

ID	Location	Main Habitat	Other habitats
A	221m S	Lowland heathland	Main habitat: LHEAT (INV > 50%); LDAGR (INV > 50%)

This data is sourced from Natural England.

13.2 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 71**

ID	Location	Type	Habitat
1	**On site**	**Network Enhancement Zone 2**	**Not specified**
A	192m S	Primary Habitat	Lowland heathland

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	1

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.

Features are displayed on the Habitat designations map on **page 71**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
A	242m SW	BRITPITS ref: 19411	Low	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability

Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m	1

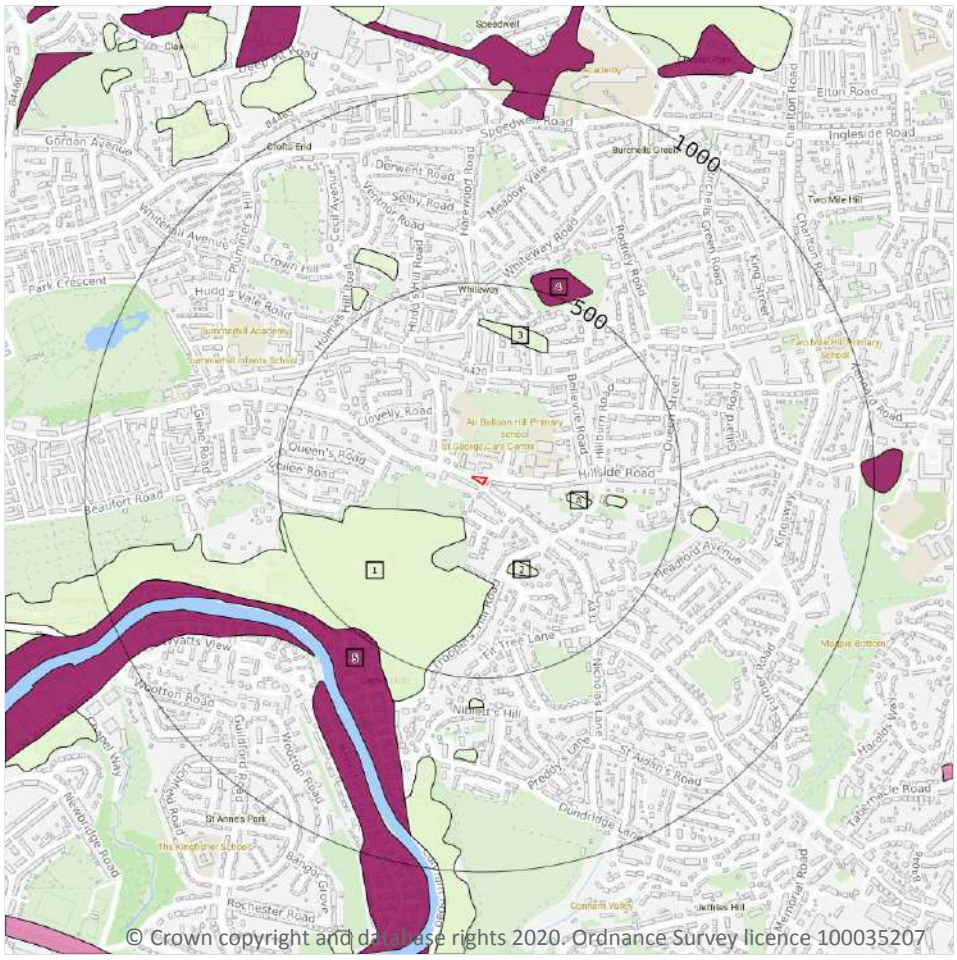
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 74**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**ST67SW**

This data is sourced from the British Geological Survey.

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



14.2 Artificial and made ground (10k)

Records within 500m **7**

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 75**

ID	Location	LEX Code	Description	Rock description
1	101m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	211m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
2	216m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	312m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
3	353m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
4	472m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
5	486m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

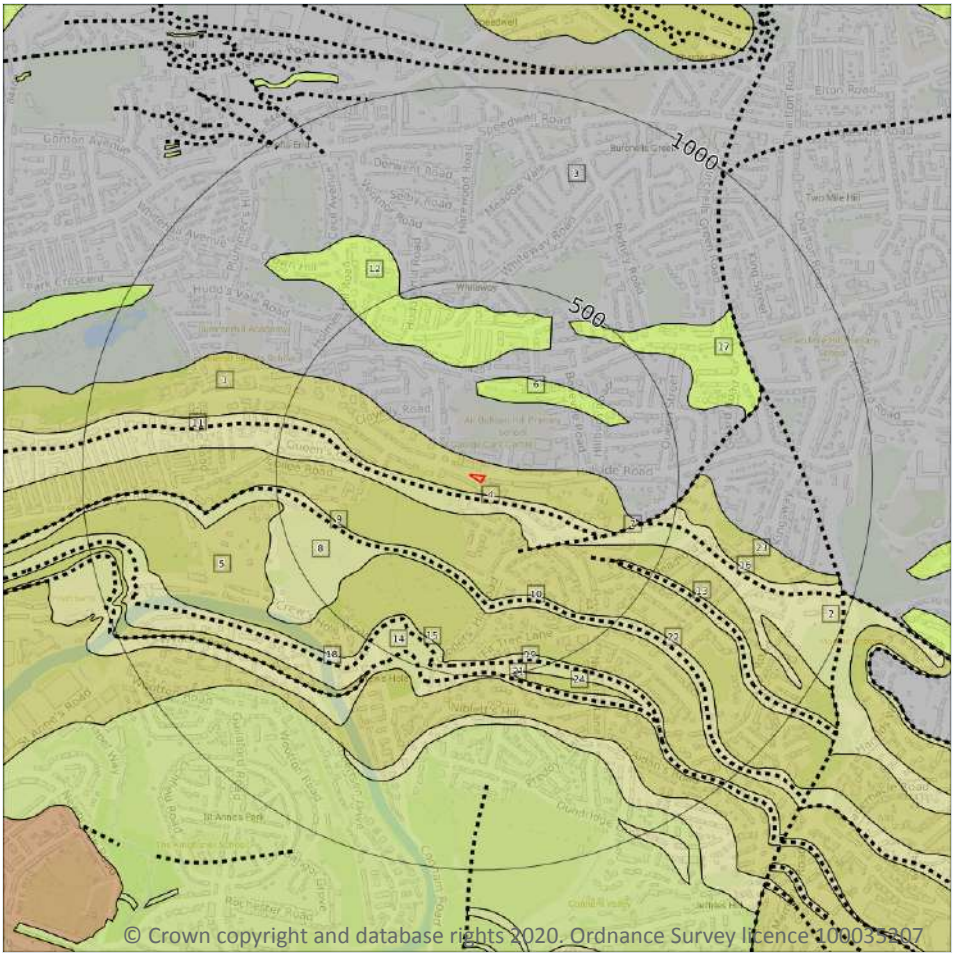
14.4 Landslip (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m **11**

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 78**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**DN-SDST**	**Downend Member - Sandstone**	**Bolsovian Sub-age**
2	30m S	DN-MDST	Downend Member - Mudstone	Bolsovian Sub-age
3	34m N	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age

ID	Location	LEX Code	Description	Rock age
5	82m S	DN-SDST	Downend Member - Sandstone	Bolsovian Sub-age
6	198m N	SWMCM-SDST	South Wales Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
8	224m SW	DN-MDST	Downend Member - Mudstone	Bolsovian Sub-age
12	278m N	SWMCM-SDST	South Wales Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
14	394m SW	DN-MDST	Downend Member - Mudstone	Bolsovian Sub-age
17	437m NE	SWMCM-SDST	South Wales Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
23	491m E	DN-SDST	Downend Member - Sandstone	Bolsovian Sub-age
24	496m S	DN-SDST	Downend Member - Sandstone	Bolsovian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	**13**

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 78**

ID	Location	Category	Description
4	44m S	ROCK	Coal seam, inferred
7	201m SE	FAULT	Normal fault, inferred
9	240m SW	ROCK	Coal seam, inferred
10	248m S	ROCK	Coal seam, inferred
11	271m W	ROCK	Coal seam, inferred
13	344m SE	ROCK	Coal seam, inferred
15	406m SW	ROCK	Coal seam, observed
16	416m E	ROCK	Coal seam, inferred
18	450m SW	ROCK	Coal seam, inferred
19	467m S	ROCK	Coal seam, inferred

ID	Location	Category	Description
20	477m SW	ROCK	Coal seam, observed
21	490m S	ROCK	Coal seam, inferred
22	490m SE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability

15.1 50k Availability

Records within 500m	1

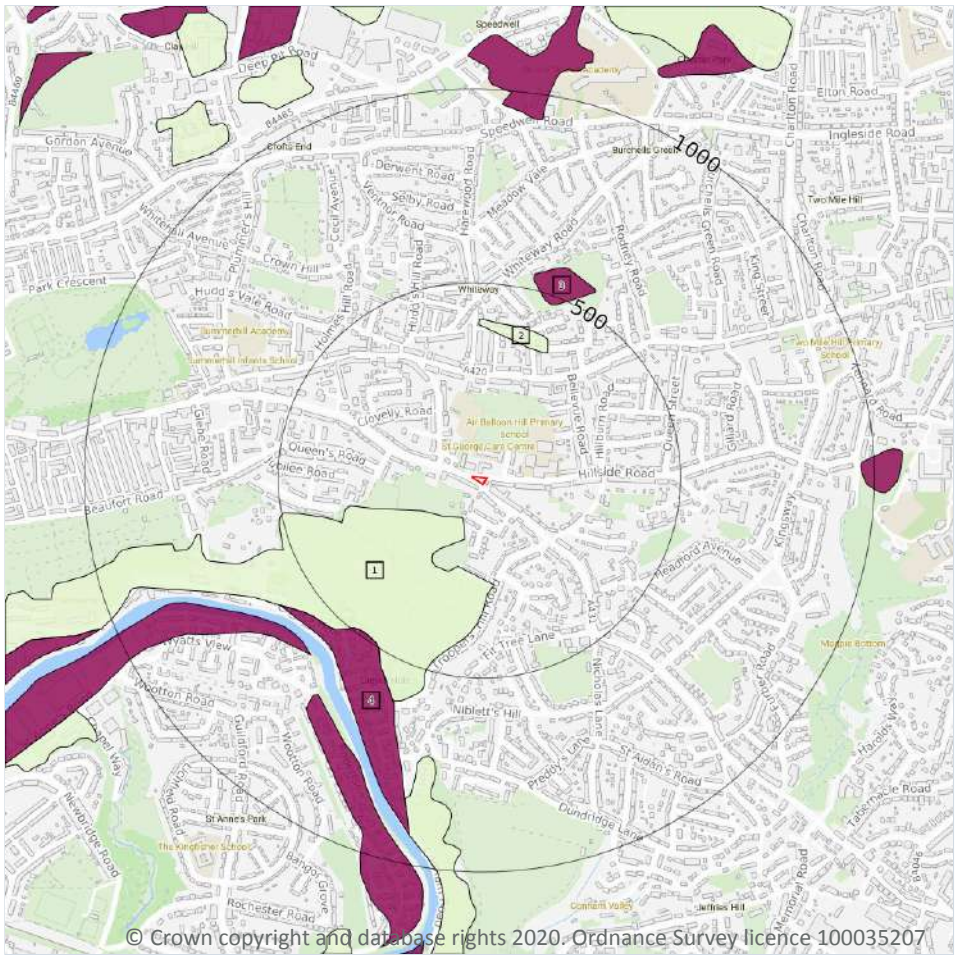
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 81**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW264_bristol_v4**

This data is sourced from the British Geological Survey.

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



15.2 Artificial and made ground (50k)

Records within 500m	4

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 82**

ID	Location	LEX Code	Description	Rock description
1	101m SW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
2	353m N	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
3	478m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	487m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial

15.4 Superficial geology (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

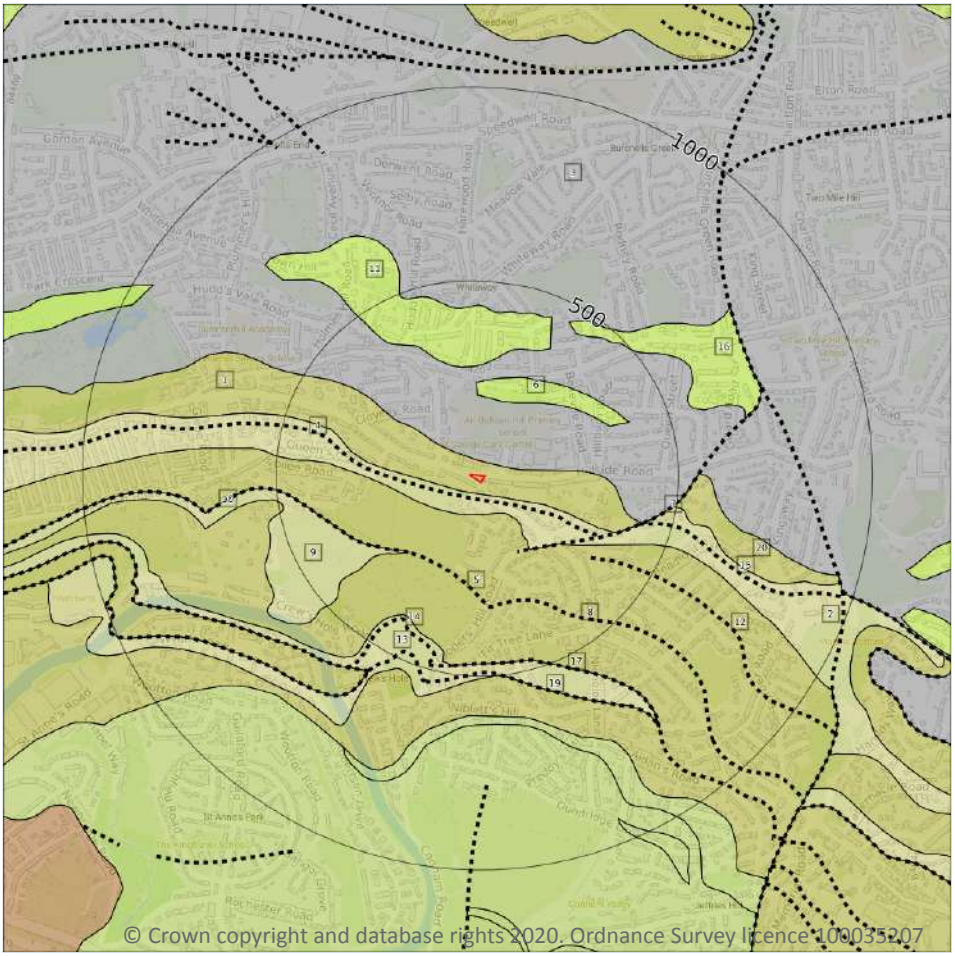
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m	10

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 85**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**DN-SDST**	**DOWNEND MEMBER - SANDSTONE**	**WESTPHALIAN**
2	30m S	DN-MDST	DOWNEND MEMBER - MUDSTONE	WESTPHALIAN
3	35m N	SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
5	83m S	DN-SDST	DOWNEND MEMBER - SANDSTONE	WESTPHALIAN
6	198m N	SWMCM-SDST	SOUTH WALES MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
9	255m SW	DN-MDST	DOWNEND MEMBER - MUDSTONE	WESTPHALIAN
11	278m N	SWMCM-SDST	SOUTH WALES MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
13	394m SW	DN-MDST	DOWNEND MEMBER - MUDSTONE	WESTPHALIAN
16	437m NE	SWMCM-SDST	SOUTH WALES MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
20	491m E	DN-SDST	DOWNEND MEMBER - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	**3**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**High**	**Moderate**
30m S	Fracture	Moderate	Low
35m NE	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	**10**

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 85**

ID	Location	Category	Description
4	44m S	ROCK	Coal seam, inferred

ID	Location	Category	Description
7	201m SE	FAULT	Fault, inferred, displacement unknown
8	239m SW	ROCK	Coal seam, inferred
10	255m SW	ROCK	Coal seam, inferred
12	344m SE	ROCK	Coal seam, inferred
14	406m SW	ROCK	Coal seam, observed
15	416m E	ROCK	Coal seam, inferred
17	467m S	ROCK	Coal seam, inferred
18	478m SW	ROCK	Coal seam, observed
19	490m S	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

16 Boreholes

Site Outline

Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m	1

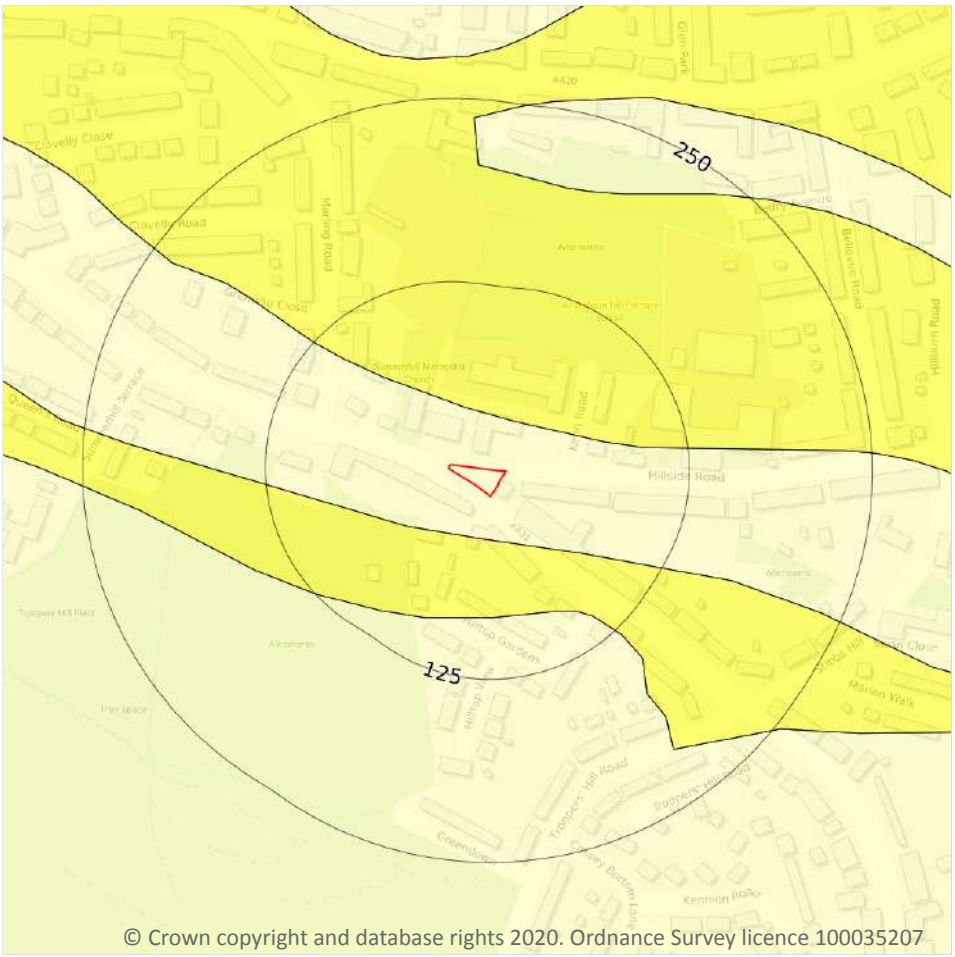
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several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

Features are displayed on the Boreholes map on **page 88**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	42m S	363090 173370	AIR BALLOON PIT ST GEORGE	120.7	N	391091

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m	2

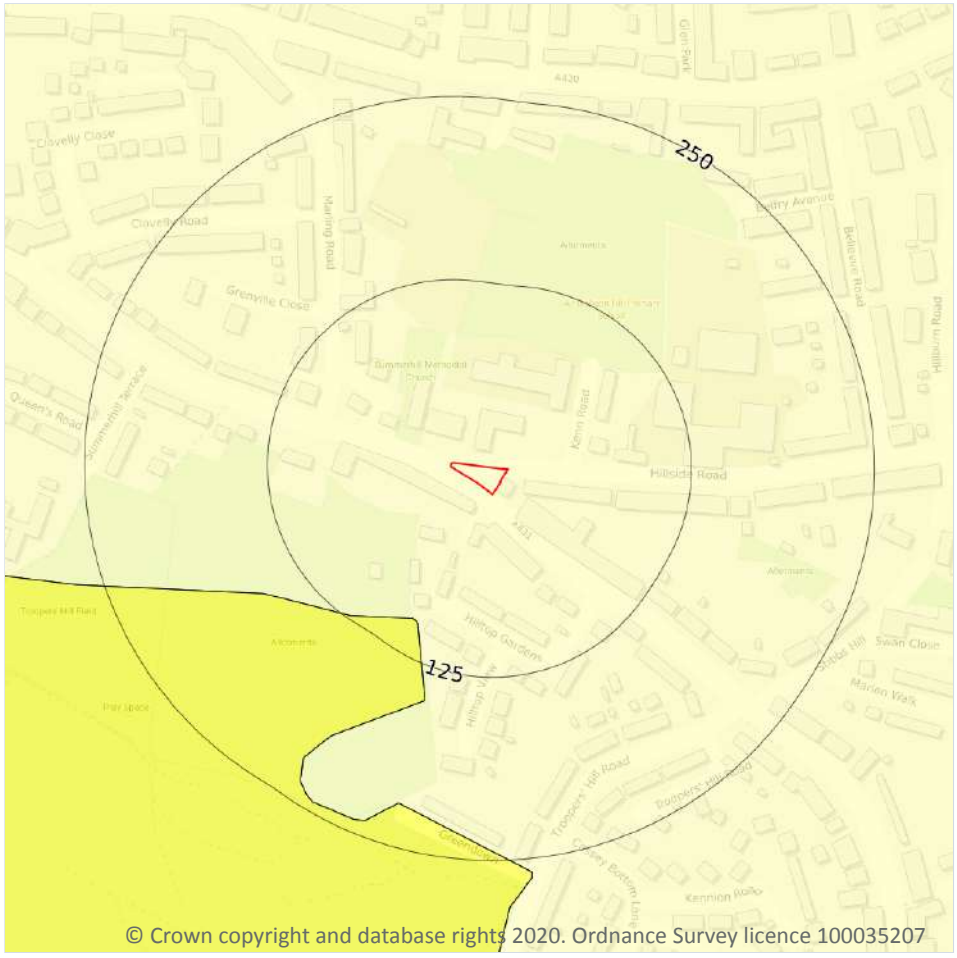
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 89**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
30m S	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m	1

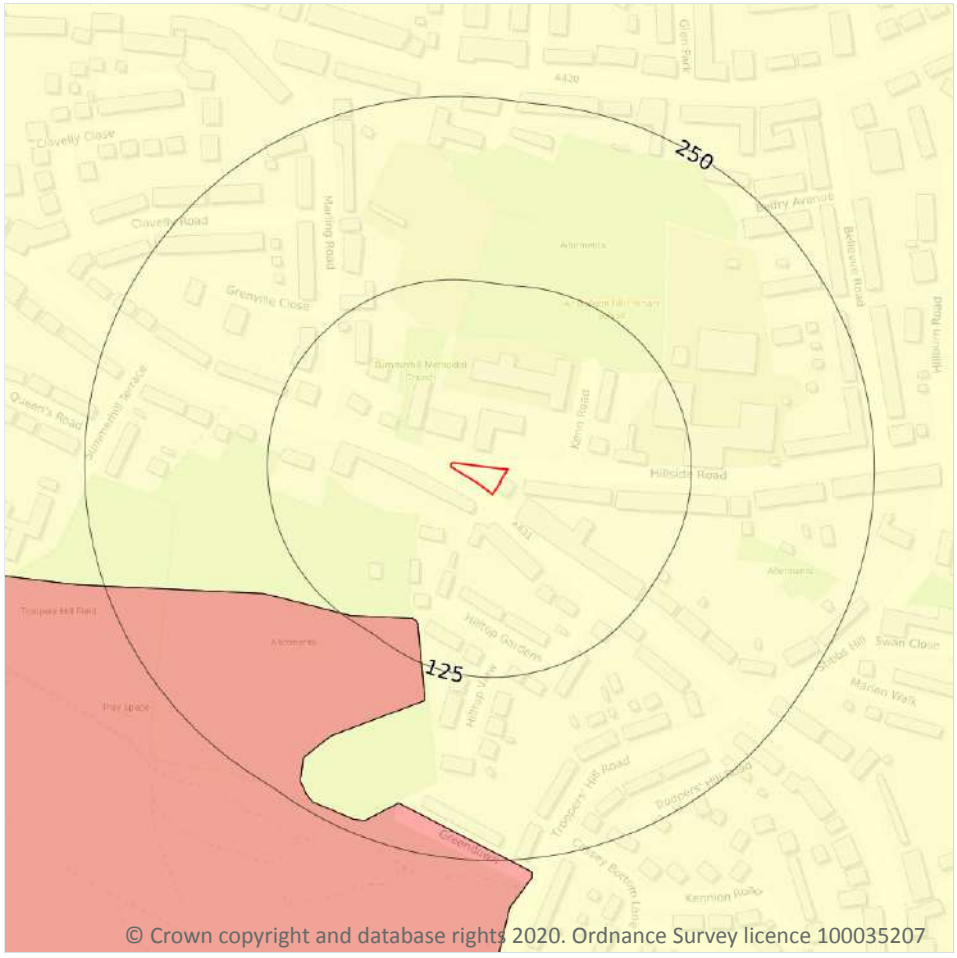
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 90**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m	1

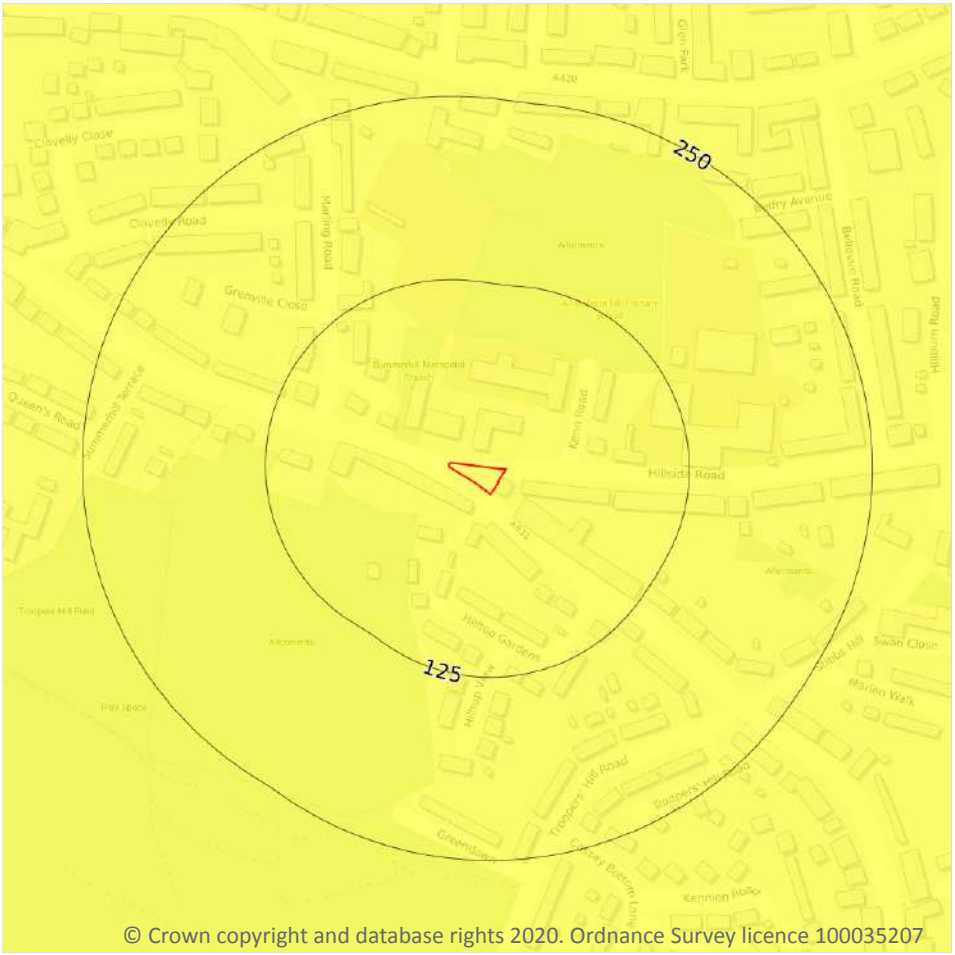
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 91**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m	1

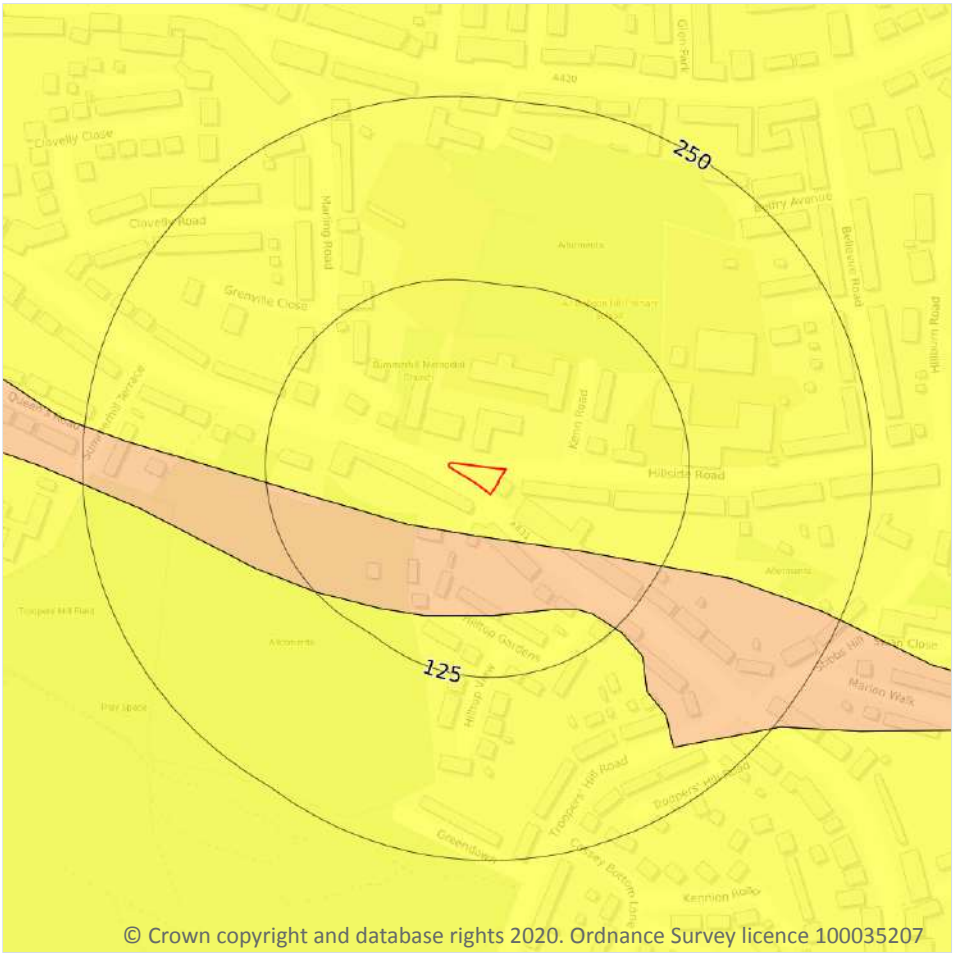
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 92**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m	2

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

Features are displayed on the Natural ground subsidence - Landslides map on **page 93**

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

Location	Hazard rating	Details
30m S	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks

Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	1

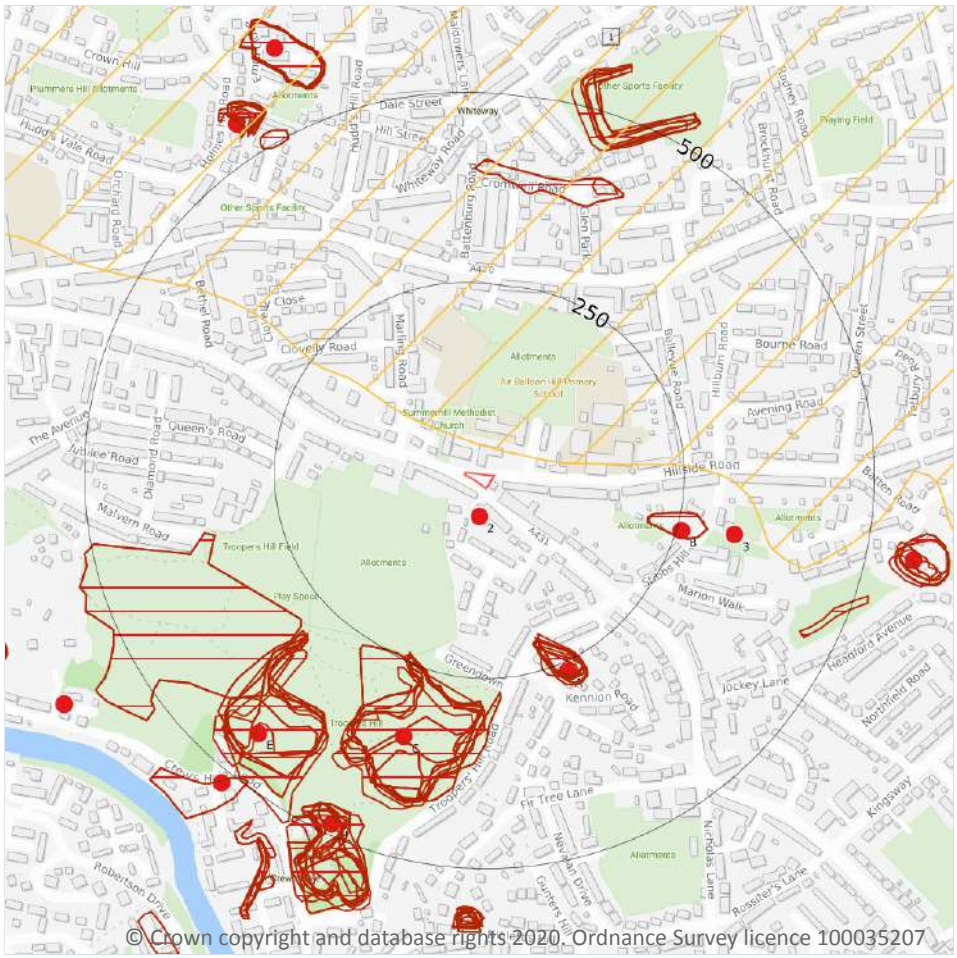
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 95**

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

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



18.1 Natural cavities

Records within 500m	0

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

This data is sourced from Peter Brett Associates (PBA).

18.2 BritPits

Records within 500m	7

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 96**

ID	Location	Details	Description
2	37m S	Name: Air Balloon Pit Address: St George, BRISTOL, Avon Commodity: Coal, Deep Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
B	256m E	Name: Air Balloon Hill Address: St George, BRISTOL, Avon Commodity: Sandstone Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
A	262m SE	Name: Nagshead Hill Address: Whites Hill, BRISTOL, Avon Commodity: Sandstone Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
3	325m E	Name: Air Balloon Hill Address: St George, BRISTOL, Avon Commodity: Sandstone Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
C	343m S	Name: Troopers' Hill Address: St George, BRISTOL, Avon Commodity: Sandstone Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
E	435m SW	Name: Troopers' Hill Address: BRISTOL, Avon Commodity: Sandstone Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

ID	Location	Details	Description
H	485m SW	Name: Troopers' Hill Address: St George, BRISTOL, Avon Commodity: Sandstone Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m **28**

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 96**

ID	Location	Land Use	Year of mapping	Mapping scale
A	203m S	Unspecified Pit	1955	1:10560
A	208m S	Unspecified Pit	1930	1:10560
A	208m S	Unspecified Pit	1938	1:10560
A	208m S	Unspecified Pit	1921	1:10560
A	208m S	Unspecified Old Quarry	1902	1:10560
A	209m S	Unspecified Pit	1938	1:10560
A	209m S	Unspecified Pit	1938	1:10560
B	210m E	Unspecified Old Quarry	1902	1:10560
B	211m E	Unspecified Old Quarry	1902	1:10560
A	212m S	Unspecified Pit	1938	1:10560
A	212m S	Unspecified Pit	1921	1:10560
A	212m S	Unspecified Old Quarry	1902	1:10560
A	218m S	Unspecified Ground Workings	1913	1:10560
A	221m S	Unspecified Pit	1938	1:10560
A	221m S	Unspecified Pit	1938	1:10560
C	239m SW	Unspecified Quarry	1930	1:10560
C	239m SW	Unspecified Quarry	1902	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
C	239m SW	Unspecified Old Quarry	1938	1:10560
C	239m SW	Unspecified Quarry	1921	1:10560
C	241m SW	Unspecified Old Quarry	1938	1:10560
C	243m SW	Unspecified Old Quarry	1938	1:10560
C	243m SW	Unspecified Quarry	1902	1:10560
C	246m SW	Unspecified Ground Workings	1973	1:10000
C	246m SW	Unspecified Ground Workings	1965	1:10560
C	246m SW	Unspecified Ground Workings	1986	1:10000
C	246m SW	Unspecified Ground Workings	1955	1:10560
C	247m S	Unspecified Old Quarry	1938	1:10560
C	248m SW	Unspecified Old Quarry	1913	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	**3**

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 96**

ID	Location	Land Use	Year of mapping	Mapping scale
-	941m N	Coal Pit	1938	1:10560
-	941m N	Coal Pit	1921	1:10560
-	995m N	Unspecified Old Shaft	1955	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	**0**

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	1

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 96**

ID	Location	Name	Commodity	Class	Likelihood
1	35m N	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	0

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

This data is sourced from Peter Brett Associates (PBA).

18.8 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	1

Areas which could be affected by past, current or future coal mining.

Location	Details
On site	**The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.**

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	**0**

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

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

18.11 Gypsum areas

Records on site	**0**

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	**0**

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

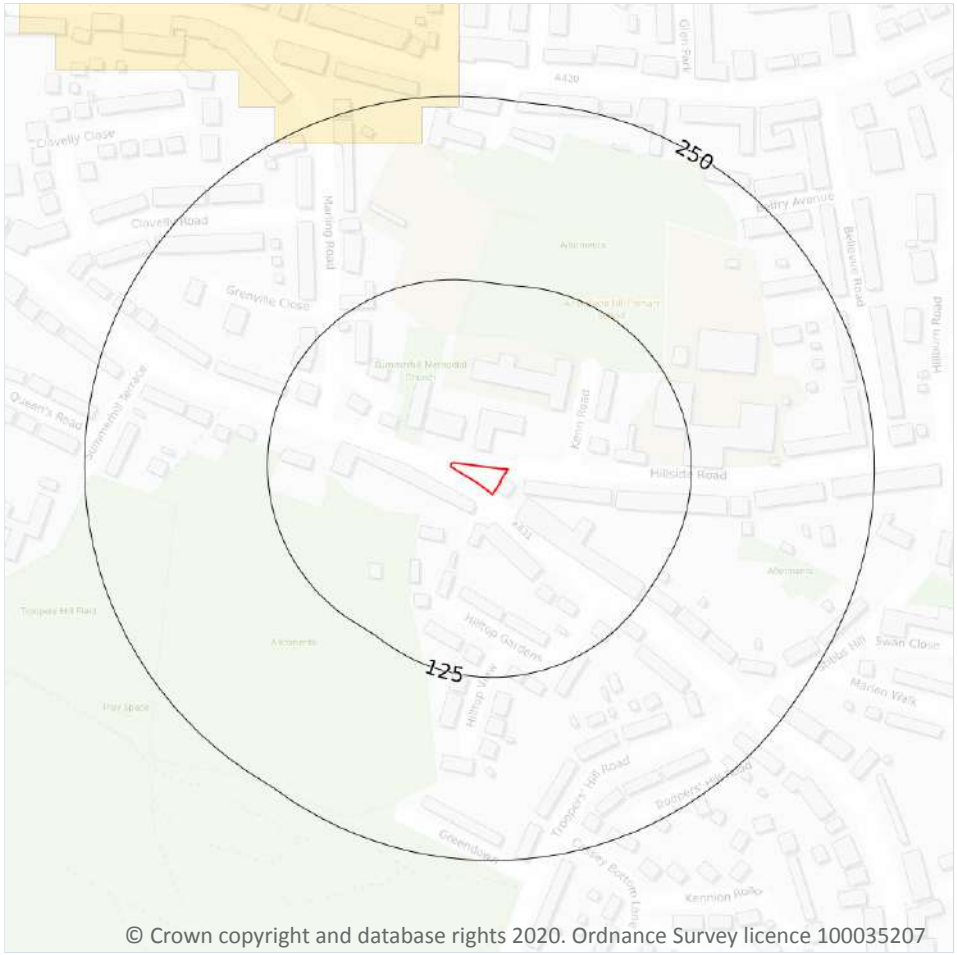
18.13 Clay mining

Records on site	**0**

Generalised areas that may be affected by kaolin and ball clay extraction.

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

19 Radon



19.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 102**

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

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

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m	3

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**200 - 300 mg/kg**	**120 - 240 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
30m SE	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
35m E	25 - 35 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km^2.

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	0

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

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

Data providers

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

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