

767, MARKET STREET, WHITWORTH, ROCHDALE, OL12 8LS

Order Details

Date: 10/10/2022
Your ref: Campbell
Our Ref: GS-9116590

Site Details

Location: 388804 419218
Area: 0.03 ha
Authority: [Rossendale Borough Council](#)



Summary of findings

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Aerial image

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OS MasterMap site plan

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groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
12	1.1	<u>Historical industrial land uses</u>	0	1	62	97	-
18	1.2	<u>Historical tanks</u>	0	0	6	1	-
19	1.3	<u>Historical energy features</u>	0	0	4	0	-
19	1.4	Historical petrol stations	0	0	0	0	-
20	1.5	Historical garages	0	0	0	0	-
20	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
21	2.1	<u>Historical industrial land uses</u>	0	1	74	114	-
28	2.2	<u>Historical tanks</u>	0	0	13	1	-
29	2.3	<u>Historical energy features</u>	0	0	9	0	-
30	2.4	Historical petrol stations	0	0	0	0	-
30	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
31	3.1	Active or recent landfill	0	0	0	0	-
31	3.2	<u>Historical landfill (BGS records)</u>	0	0	2	0	-
32	3.3	<u>Historical landfill (LA/mapping records)</u>	0	0	3	4	-
32	3.4	<u>Historical landfill (EA/NRW records)</u>	0	0	3	1	-
33	3.5	<u>Historical waste sites</u>	0	0	1	0	-
34	3.6	<u>Licensed waste sites</u>	0	0	1	0	-
34	3.7	Waste exemptions	0	0	0	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
35	4.1	<u>Recent industrial land uses</u>	0	0	13	-	-
36	4.2	Current or recent petrol stations	0	0	0	0	-
37	4.3	Electricity cables	0	0	0	0	-
37	4.4	Gas pipelines	0	0	0	0	-
37	4.5	Sites determined as Contaminated Land	0	0	0	0	-



37	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
37	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	-
38	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
38	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
38	4.12	Radioactive Substance Authorisations	0	0	0	0	-
39	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
39	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
39	4.15	<u>Pollutant release to public sewer</u>	0	0	1	0	-
39	4.16	<u>List 1 Dangerous Substances</u>	0	0	0	1	-
40	4.17	List 2 Dangerous Substances	0	0	0	0	-
40	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
40	4.19	Pollution inventory substances	0	0	0	0	-
40	4.20	Pollution inventory waste transfers	0	0	0	0	-
41	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
42	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
44	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
45	5.3	<u>Groundwater vulnerability</u>	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	<u>Groundwater abstractions</u>	0	0	2	0	12
51	5.7	<u>Surface water abstractions</u>	0	0	0	0	7
53	5.8	<u>Potable abstractions</u>	0	0	0	0	3
54	5.9	Source Protection Zones	0	0	0	0	-
54	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
55	6.1	<u>Water Network (OS MasterMap)</u>	0	0	7	-	-



56	6.2	<u>Surface water features</u>	0	0	3	-	-
56	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
57	6.4	<u>WFD Surface water bodies</u>	0	0	1	-	-
57	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-

Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
58	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
58	7.2	Historical Flood Events	0	0	0	-	-
58	7.3	Flood Defences	0	0	0	-	-
59	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
59	7.5	Flood Storage Areas	0	0	0	-	-
60	7.6	Flood Zone 2	None (within 50m)				
60	7.7	Flood Zone 3	None (within 50m)				

Page	Section	Surface water flooding					
61	8.1	Surface water flooding	Negligible (within 50m)				

Page	Section	Groundwater flooding					
62	9.1	<u>Groundwater flooding</u>	Low (within 50m)				

Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
63	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
64	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
64	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
64	10.4	Special Protection Areas (SPA)	0	0	0	0	0
64	10.5	National Nature Reserves (NNR)	0	0	0	0	0
65	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
65	10.7	Designated Ancient Woodland	0	0	0	0	0
65	10.8	Biosphere Reserves	0	0	0	0	0
65	10.9	Forest Parks	0	0	0	0	0
66	10.10	Marine Conservation Zones	0	0	0	0	0
66	10.11	<u>Green Belt</u>	0	1	0	0	3
66	10.12	Proposed Ramsar sites	0	0	0	0	0



66	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
67	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
67	10.15	Nitrate Sensitive Areas	0	0	0	0	0
67	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
68	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
69	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
70	11.1	World Heritage Sites	0	0	0	-	-
71	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
71	11.3	National Parks	0	0	0	-	-
71	11.4	<u>Listed Buildings</u>	0	0	1	-	-
72	11.5	Conservation Areas	0	0	0	-	-
72	11.6	Scheduled Ancient Monuments	0	0	0	-	-
72	11.7	Registered Parks and Gardens	0	0	0	-	-

Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
73	12.1	<u>Agricultural Land Classification</u>	Grade 5 (within 250m)				
74	12.2	Open Access Land	0	0	0	-	-
74	12.3	Tree Felling Licences	0	0	0	-	-
74	12.4	Environmental Stewardship Schemes	0	0	0	-	-
74	12.5	Countryside Stewardship Schemes	0	0	0	-	-

Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
75	13.1	<u>Priority Habitat Inventory</u>	0	0	1	-	-
76	13.2	Habitat Networks	0	0	0	-	-
76	13.3	<u>Open Mosaic Habitat</u>	0	0	3	-	-
76	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
77	14.1	<u>10k Availability</u>	Identified (within 500m)				
78	14.2	<u>Artificial and made ground (10k)</u>	0	0	4	7	-
80	14.3	<u>Superficial geology (10k)</u>	1	0	3	0	-

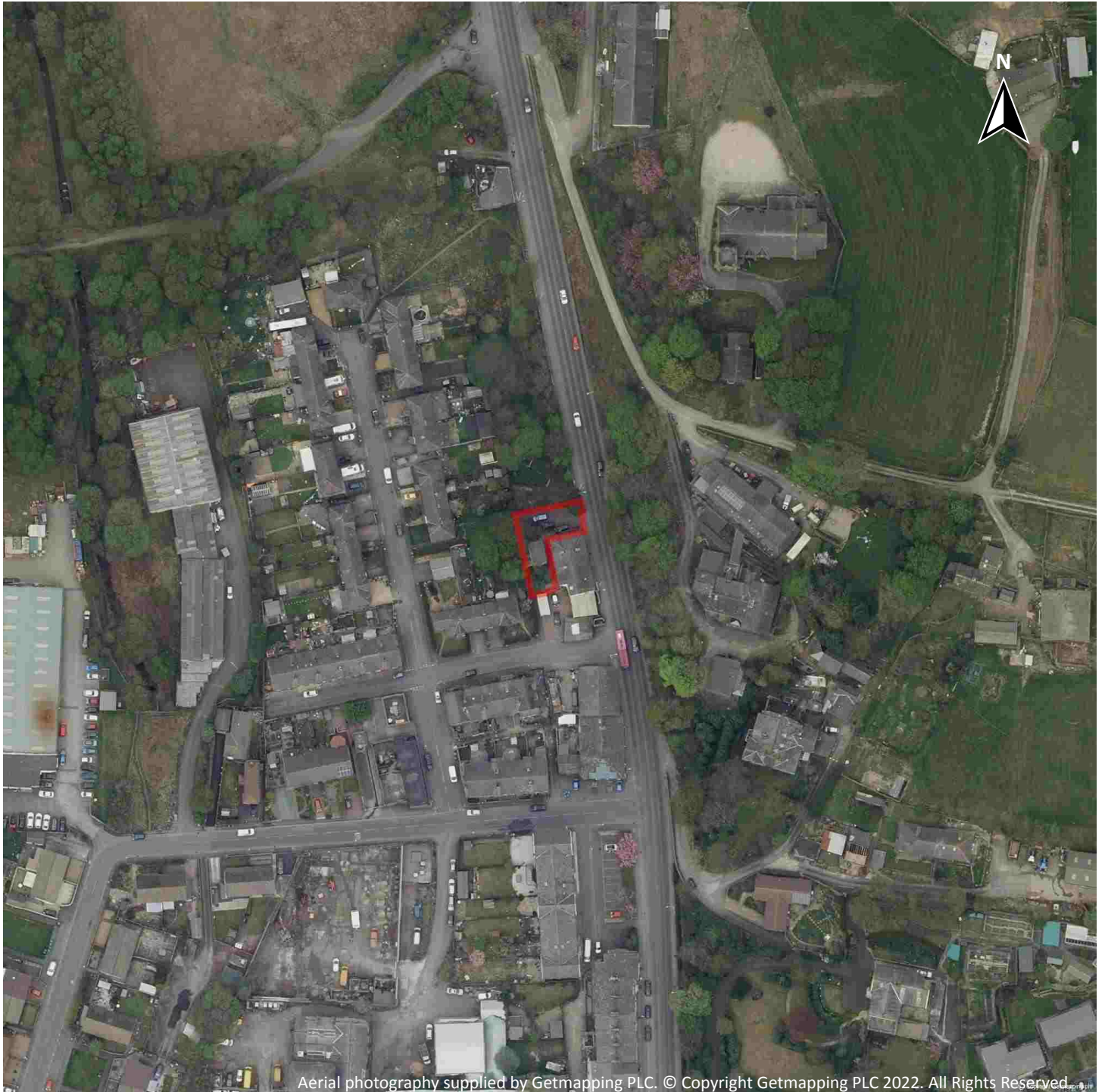


81	14.4	Landslip (10k)	0	0	0	0	-
82	14.5	<u>Bedrock geology (10k)</u>	1	1	11	12	-
84	14.6	<u>Bedrock faults and other linear features (10k)</u>	0	0	3	4	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
85	15.1	<u>50k Availability</u>	Identified (within 500m)				
86	15.2	<u>Artificial and made ground (50k)</u>	0	0	2	4	-
87	15.3	Artificial ground permeability (50k)	0	0	-	-	-
88	15.4	<u>Superficial geology (50k)</u>	1	0	3	0	-
89	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
89	15.6	Landslip (50k)	0	0	0	0	-
89	15.7	Landslip permeability (50k)	None (within 50m)				
90	15.8	<u>Bedrock geology (50k)</u>	1	1	7	5	-
91	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
91	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	0	2	3	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
93	16.1	<u>BGS Boreholes</u>	0	0	2	-	-
Page	Section	Natural ground subsidence					
94	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
95	17.2	<u>Running sands</u>	Very low (within 50m)				
97	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
98	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
99	17.5	<u>Landslides</u>	Moderate (within 50m)				
101	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
103	18.1	Natural cavities	0	0	0	0	-
104	18.2	<u>BritPits</u>	0	0	1	5	-
105	18.3	<u>Surface ground workings</u>	0	0	47	-	-
107	18.4	<u>Underground workings</u>	0	0	0	0	7
107	18.5	Historical Mineral Planning Areas	0	0	0	0	-



108	18.6	<u>Non-coal mining</u>	1	1	1	1	11
109	18.7	Mining cavities	0	0	0	0	0
110	18.8	JPB mining areas	None (within 0m)				
110	18.9	<u>Coal mining</u>	Identified (within 0m)				
110	18.10	Brine areas	None (within 0m)				
110	18.11	Gypsum areas	None (within 0m)				
110	18.12	Tin mining	None (within 0m)				
111	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
112	19.1	<u>Radon</u>	Between 5% and 10% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
113	20.1	<u>BGS Estimated Background Soil Chemistry</u>	1	2	-	-	-
113	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
113	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
114	21.1	Underground railways (London)	0	0	0	-	-
114	21.2	Underground railways (Non-London)	0	0	0	-	-
115	21.3	Railway tunnels	0	0	0	-	-
115	21.4	<u>Historical railway and tunnel features</u>	1	0	24	-	-
116	21.5	Royal Mail tunnels	0	0	0	-	-
116	21.6	<u>Historical railways</u>	0	0	2	-	-
117	21.7	Railways	0	0	0	-	-
117	21.8	Crossrail 1	0	0	0	0	-
117	21.9	Crossrail 2	0	0	0	0	-
117	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 23/05/2019

Site Area: 0.03ha



Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.03ha



Recent site history - 1999 aerial photograph



Capture Date: 10/09/1999

Site Area: 0.03ha



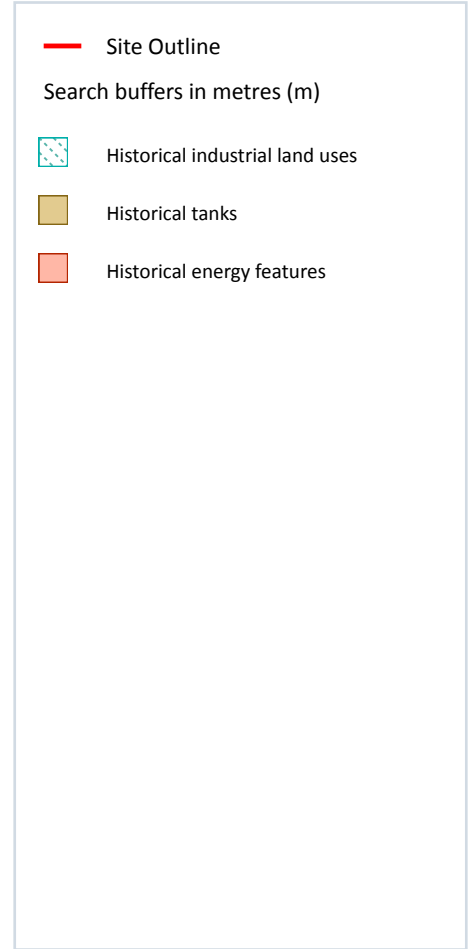
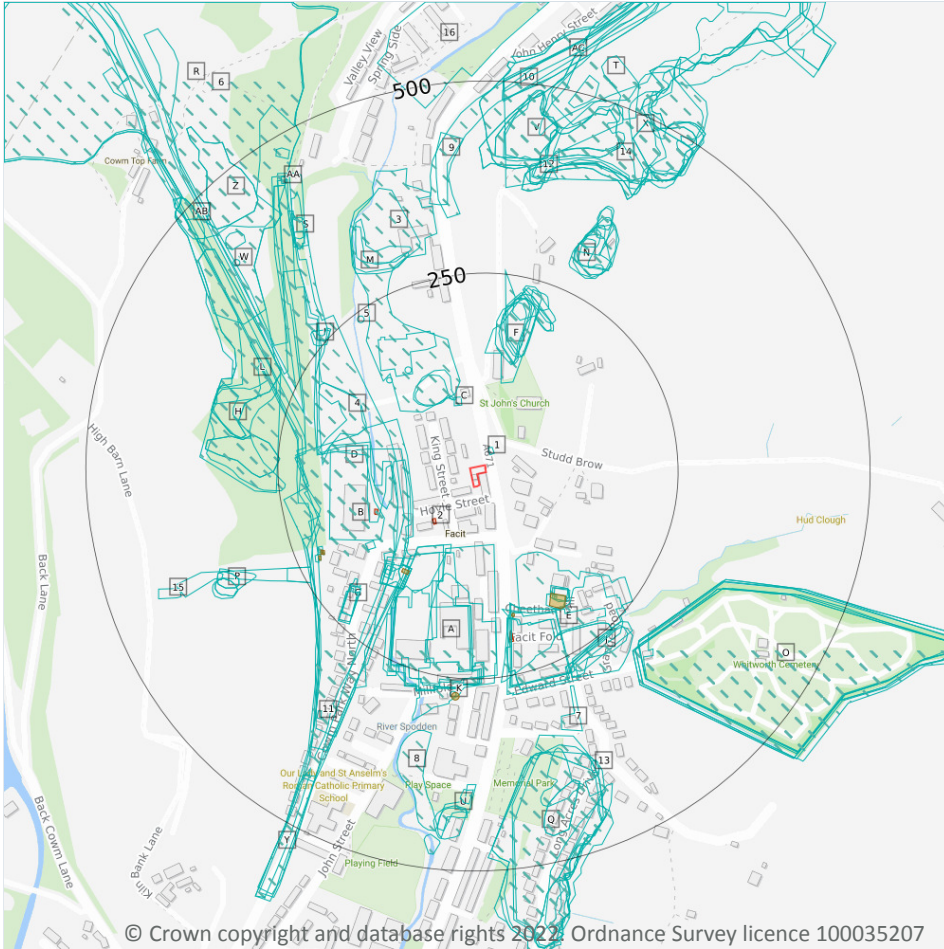
OS MasterMap site plan



Site Area: 0.03ha



1 Past land use



1.1 Historical industrial land uses

Records within 500m **160**

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 12**

ID	Location	Land use	Dates present	Group ID
1	15m NE	Smithy	1851	692931

ID	Location	Land use	Dates present	Group ID
A	77m S	Unspecified Mills	1891	781766
B	79m W	Railway Sidings	1967	699437
A	80m S	Unspecified Mill	1967 - 1979	734332
B	82m W	Railway Sidings	1949	695784
C	83m N	Unspecified Disused Mill	1909	675717
B	84m W	Mineral Railway Sidings	1938	770960
A	85m SW	Unspecified Mills	1949	746717
A	90m S	Unspecified Mills	1938	706579
C	91m N	Refuse Heap	1938 - 1949	771952
C	92m N	Refuse Heap	1928	749250
D	94m W	Railway Sidings	1891	737242
3	94m NW	Unspecified Disused Tip	1979	654669
A	96m SW	Unspecified Mills	1928	750004
D	99m W	Mineral Railway Sidings	1928	717636
D	101m W	Mineral Railway Sidings	1909	733079
E	106m SE	Unspecified Mills	1891 - 1892	727792
F	109m N	Unspecified Quarry	1891	736776
A	118m S	Cotton Mills	1851	659332
B	123m W	Unspecified Works	1979	678944
B	131m SW	Railway Station	1909	709428
B	134m SW	Railway Station	1891	747186
B	134m SW	Railway Station	1928 - 1938	772328
F	135m N	Unspecified Old Quarry	1909	751185
F	136m N	Unspecified Ground Workings	1938	647752
F	137m N	Unspecified Heaps	1928	712883
B	143m SW	Railway Building	1949	670132
C	144m NW	Cotton Mill	1851	644278
4	145m W	Unspecified Ground Workings	1967 - 1979	737578



ID	Location	Land use	Dates present	Group ID
C	147m NW	Gasometer	1851	655087
F	147m N	Unspecified Old Quarry	1938	769461
B	147m SW	Railway Station	1967	706690
B	149m SW	Railway Building	1909	670131
F	149m N	Unspecified Old Quarry	1912	737280
F	150m N	Unspecified Heaps	1949	775444
A	150m SW	Unspecified Mills	1909	780758
C	152m NW	Chimney	1979	684548
E	158m S	Unspecified Mill	1938	734352
E	159m S	Unspecified Mill	1912	701591
E	161m SE	Unspecified Tank	1949	789521
E	163m S	Cotton Mills	1851	659334
E	164m SE	Unspecified Tank	1938	747586
E	166m SE	Unspecified Tank	1912	772445
E	167m SE	Unspecified Tank	1928 - 1938	699220
E	171m S	Unspecified Mill	1967 - 1979	758364
E	176m S	Cotton Mill	1909	644275
E	176m S	Unspecified Mill	1928 - 1938	730084
F	192m NE	Unspecified Pit	1928	754008
G	193m SW	Goods Station	1949	670809
F	194m N	Unspecified Heap	1967 - 1979	733750
G	198m SW	Railway Building	1967	723866
G	202m SW	Railway Building	1938	785332
F	203m NE	Unspecified Pit	1949	748037
G	205m SW	Railway Building	1909 - 1928	725915
B	212m W	Unspecified Tank	1949	674533
F	214m N	Unspecified Quarry	1892	745358
B	218m SW	Unspecified Tank	1909 - 1938	772974



ID	Location	Land use	Dates present	Group ID
5	236m NW	Chimney	1979	684544
B	237m SW	Cuttings	1891	642516
H	241m W	Unspecified Quarry	1909	783945
I	246m NW	Unspecified Heap	1909	650617
H	248m W	Unspecified Heap	1967	694634
H	248m W	Unspecified Heap	1949	753887
I	251m NW	Unspecified Ground Workings	1928	647751
6	251m W	Unspecified Quarries	1928 - 1938	738540
J	252m SE	Refuse Heap	1949	721701
J	257m SE	Refuse Heap	1928	696996
J	259m SE	Refuse Heap	1938	725741
K	267m S	Gasometer	1851	655089
L	275m NW	Unspecified Quarry	1967	714951
L	275m NW	Unspecified Quarry	1949	765299
M	276m N	Refuse Heap	1928 - 1938	740088
N	276m NE	Unspecified Old Quarries	1909	741518
M	278m N	Unspecified Heap	1967	716171
N	278m NE	Unspecified Quarry	1928	667751
N	282m NE	Unspecified Ground Workings	1938	647754
M	286m N	Unspecified Heap	1949	717058
7	287m SE	Unspecified Mill	1949	657070
H	288m W	Unspecified Quarry	1979	747791
N	288m NE	Unspecified Old Quarries	1912	704441
N	289m NE	Unspecified Old Quarries	1938	746496
O	290m SE	Cemetery	1967 - 1979	706101
O	290m SE	Cemetery	1949	727734
O	291m SE	Cemetery	1938	768143
O	294m SE	Cemetery	1909	721298



ID	Location	Land use	Dates present	Group ID
O	294m SE	Cemetery	1928	734641
O	295m SE	Cemetery	1912	759275
O	295m SE	Cemetery	1891 - 1892	721571
O	295m SE	Cemetery	1938	781532
N	303m NE	Unspecified Heap	1967	763135
P	306m W	Unspecified Heap	1909 - 1928	702418
N	312m NE	Unspecified Heap	1949	731695
8	324m S	Unspecified Heap	1967	650620
9	326m N	Tramway Sidings	1891	697810
P	329m W	Unspecified Heap	1967	739036
P	329m W	Unspecified Heap	1949	743359
N	331m NE	Unspecified Old Quarries	1909	715511
Q	334m S	Unspecified Quarry	1891	703009
P	335m SW	Unspecified Heap	1891	747059
P	335m SW	Unspecified Heap	1938	782331
R	337m NW	Unspecified Quarries	1909	772182
N	343m NE	Unspecified Old Quarries	1938	769973
10	343m N	Tramway Sidings	1909	778103
11	353m SW	Railway Building	1938	670134
Q	353m S	Unspecified Quarry	1912	696560
Q	356m S	Sandstone Quarry	1851	687501
Q	356m S	Unspecified Quarry	1909	731038
Q	356m S	Unspecified Disused Quarry	1928 - 1938	765742
Q	358m S	Unspecified Quarry	1938	772694
S	358m NW	Unspecified Works	1967 - 1979	727929
S	361m NW	Railway Building	1949	670130
S	361m NW	Refuse Heap	1909	737440
T	361m N	Unspecified Quarry	1928	780492



ID	Location	Land use	Dates present	Group ID
T	361m N	Unspecified Quarry	1909	787030
T	362m N	Colliery	1912	754212
S	371m NW	Refuse Heap	1928 - 1938	748372
T	371m N	Unspecified Quarry	1891	761676
T	371m N	Unspecified Quarry	1938	767554
T	373m N	Unspecified Quarry	1938	741079
12	379m N	Unspecified Heap	1949	650618
T	381m N	Unspecified Quarry	1912	748922
U	388m S	Refuse Heap	1949	718369
13	388m SE	Unspecified Heap	1949	650619
U	394m S	Refuse Heap	1928 - 1938	721866
V	398m N	Unspecified Quarry	1938	730180
W	400m NW	Chimney	1967	684541
V	401m N	Unspecified Quarry	1967 - 1979	714792
V	401m N	Unspecified Quarry	1949	748926
V	402m N	Unspecified Quarry	1912	778015
Q	402m S	Unspecified Heap	1949	735999
Q	402m S	Unspecified Heap	1967	776090
14	405m N	Unspecified Pit	1967 - 1979	762682
15	405m W	Unspecified Pit	1909 - 1928	745060
X	406m N	Unspecified Quarry	1949	718951
R	412m NW	Unspecified Quarries	1891	695604
W	415m NW	Refuse Heap	1938	677463
U	416m S	Refuse Heap	1928	730788
U	419m S	Refuse Heap	1938	730778
Y	424m SW	Railway Sidings	1928	701988
Q	424m SE	Unspecified Quarry	1892	705654
Y	429m SW	Railway Sidings	1949	705830



ID	Location	Land use	Dates present	Group ID
X	434m NE	Unspecified Quarry	1892	776809
X	434m NE	Unspecified Quarry	1967	723226
X	434m NE	Unspecified Quarry	1979	764934
T	435m N	Sandstone Quarry	1851	687489
Z	437m NW	Unspecified Quarries	1949	699553
Z	437m NW	Unspecified Quarries	1967 - 1979	765701
AA	442m NW	Railway Building	1949	670126
Q	442m S	Unspecified Disused Quarry	1967	737295
AB	452m NW	Unspecified Quarry	1949	778284
U	455m S	Unspecified Heap	1928	650621
AA	467m NW	Unspecified Pit	1909	690745
16	471m N	Unspecified Mill	1891	720297
Q	471m S	Unspecified Disused Quarry	1949	758798
AC	474m N	Tramway Sidings	1938	788905
T	476m N	Tramway Sidings	1892	694013
T	479m N	Unspecified Heap	1967 - 1979	755058
AB	481m NW	Unspecified Quarry	1967 - 1979	741048
T	485m N	Unspecified Heaps	1967 - 1979	759191
AC	487m N	Tramway Sidings	1912	693937

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

7

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 ungrouped 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 12**



ID	Location	Land use	Dates present	Group ID
B	138m SW	Unspecified Tank	1976 - 1993	102695
E	169m SE	Unspecified Tank	1910 - 1929	88978
E	172m S	Unspecified Tank	1976 - 1993	91851
B	211m SW	Unspecified Tank	1962	84104
B	213m SW	Unspecified Tank	1983 - 1987	89548
B	219m SW	Unspecified Tank	1891 - 1929	98737
K	269m S	Unspecified Tank	1891	84103

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

4

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 ungrouped 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 12**

ID	Location	Land use	Dates present	Group ID
2	65m SW	Electricity Substation	1976 - 1993	57539
B	128m W	Electricity Substation	1976 - 1993	53098
E	193m S	Electricity Substation	1976	53962
E	194m S	Electricity Substation	1993	49820

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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 ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.



This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

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 ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

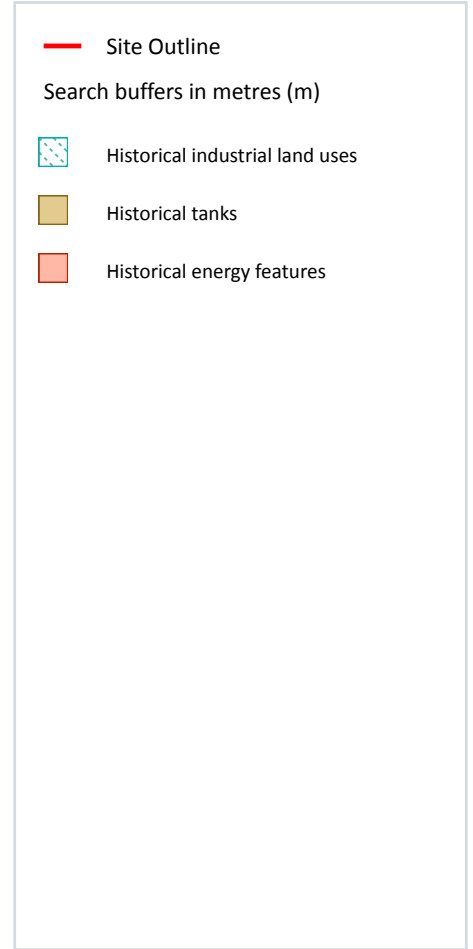
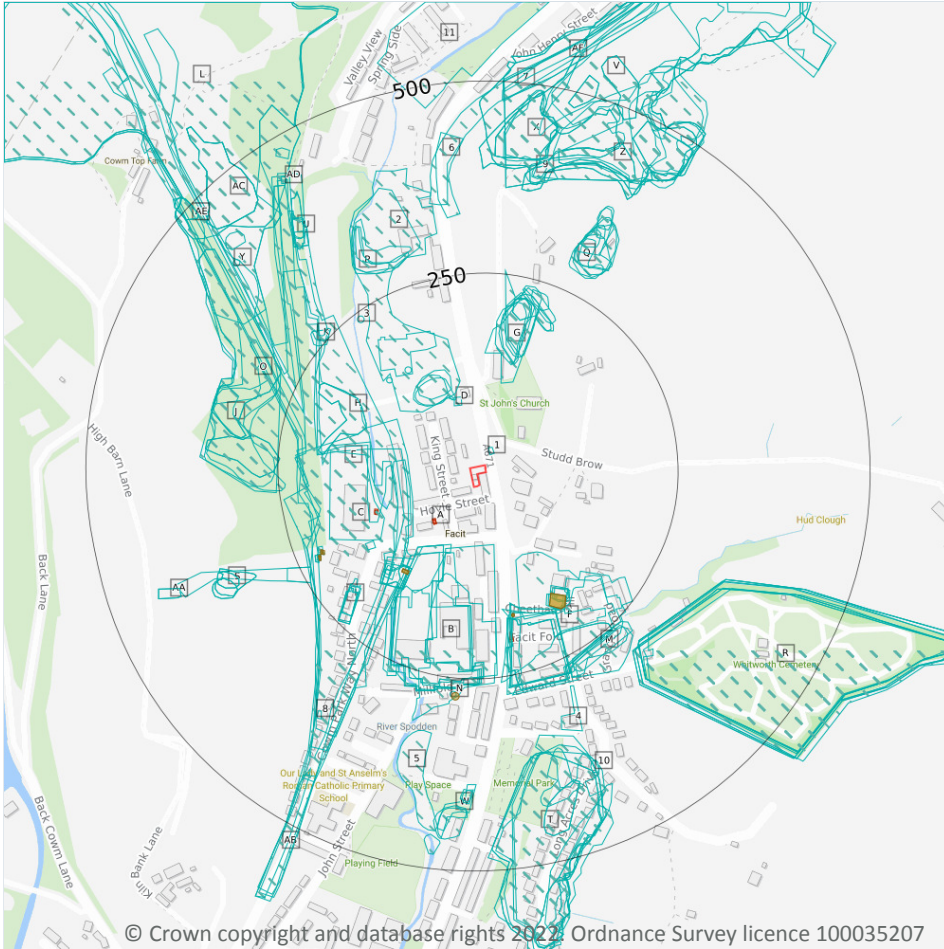
0

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



2.1 Historical industrial land uses

Records within 500m

189

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 21**

ID	Location	Land Use	Date	Group ID
1	15m NE	Smithy	1851	692931
B	77m S	Unspecified Mills	1891	781766
C	79m W	Railway Sidings	1967	699437

ID	Location	Land Use	Date	Group ID
B	80m S	Unspecified Mill	1979	734332
C	82m W	Railway Sidings	1949	695784
D	83m N	Unspecified Disused Mill	1909	675717
C	84m W	Mineral Railway Sidings	1938	770960
B	85m SW	Unspecified Mill	1967	734332
B	85m SW	Unspecified Mills	1949	746717
B	90m S	Unspecified Mills	1938	706579
D	91m N	Refuse Heap	1938	771952
D	92m N	Refuse Heap	1928	749250
E	94m W	Railway Sidings	1891	737242
2	94m NW	Unspecified Disused Tip	1979	654669
B	96m SW	Unspecified Mills	1928	750004
E	99m W	Mineral Railway Sidings	1928	717636
E	101m W	Mineral Railway Sidings	1909	733079
D	101m N	Refuse Heap	1949	771952
F	106m SE	Unspecified Mills	1892	727792
G	109m N	Unspecified Quarry	1891	736776
B	118m S	Cotton Mills	1851	659332
C	123m W	Unspecified Works	1979	678944
C	131m SW	Railway Station	1909	709428
C	134m SW	Railway Station	1938	772328
C	134m SW	Railway Station	1891	747186
C	135m SW	Railway Station	1928	772328
G	135m N	Unspecified Old Quarry	1909	751185
G	136m N	Unspecified Ground Workings	1938	647752
G	137m N	Unspecified Heaps	1928	712883
C	143m SW	Railway Building	1949	670132
D	144m NW	Cotton Mill	1851	644278



ID	Location	Land Use	Date	Group ID
H	145m W	Unspecified Ground Workings	1967	737578
H	145m W	Unspecified Ground Workings	1979	737578
D	147m NW	Gasometer	1851	655087
G	147m N	Unspecified Old Quarry	1938	769461
C	147m SW	Railway Station	1967	706690
C	149m SW	Railway Building	1909	670131
G	149m N	Unspecified Old Quarry	1912	737280
G	150m N	Unspecified Heaps	1949	775444
B	150m SW	Unspecified Mills	1909	780758
D	152m NW	Chimney	1979	684548
F	158m S	Unspecified Mill	1938	734352
F	159m S	Unspecified Mill	1912	701591
F	161m SE	Unspecified Tank	1949	789521
F	163m S	Cotton Mills	1851	659334
F	164m SE	Unspecified Tank	1938	747586
F	166m SE	Unspecified Tank	1912	772445
F	166m SE	Unspecified Mills	1891	727792
F	167m SE	Unspecified Tank	1928	699220
F	168m SE	Unspecified Tank	1938	699220
F	171m S	Unspecified Mill	1967	758364
F	176m S	Unspecified Mill	1928	730084
F	176m S	Cotton Mill	1909	644275
F	176m S	Unspecified Mill	1938	730084
F	178m S	Unspecified Mill	1979	758364
G	192m NE	Unspecified Pit	1928	754008
I	193m SW	Goods Station	1949	670809
G	194m N	Unspecified Heap	1967	733750
G	194m N	Unspecified Heap	1979	733750



ID	Location	Land Use	Date	Group ID
I	198m SW	Railway Building	1967	723866
I	202m SW	Railway Building	1938	785332
G	203m NE	Unspecified Pit	1949	748037
I	205m SW	Railway Building	1928	725915
I	205m SW	Railway Building	1909	725915
C	212m W	Unspecified Tank	1949	674533
G	214m N	Unspecified Quarry	1892	745358
C	218m SW	Unspecified Tank	1938	772974
C	221m SW	Unspecified Tank	1928	772974
C	221m SW	Unspecified Tank	1909	772974
3	236m NW	Chimney	1979	684544
C	237m SW	Cuttings	1891	642516
J	241m W	Unspecified Quarry	1909	783945
K	246m NW	Unspecified Heap	1909	650617
J	248m W	Unspecified Heap	1967	694634
J	248m W	Unspecified Heap	1949	753887
K	251m NW	Unspecified Ground Workings	1928	647751
L	251m W	Unspecified Quarries	1928	738540
M	252m SE	Refuse Heap	1949	721701
L	254m W	Unspecified Quarries	1938	738540
M	257m SE	Refuse Heap	1928	696996
M	259m SE	Refuse Heap	1938	725741
N	267m S	Gasometer	1851	655089
O	275m NW	Unspecified Quarry	1967	714951
O	275m NW	Unspecified Quarry	1949	765299
P	276m N	Refuse Heap	1928	740088
Q	276m NE	Unspecified Old Quarries	1909	741518
P	278m N	Unspecified Heap	1967	716171



ID	Location	Land Use	Date	Group ID
Q	278m NE	Unspecified Quarry	1928	667751
P	279m NW	Refuse Heap	1938	740088
Q	282m NE	Unspecified Ground Workings	1938	647754
P	286m N	Unspecified Heap	1949	717058
4	287m SE	Unspecified Mill	1949	657070
J	288m W	Unspecified Quarry	1979	747791
Q	288m NE	Unspecified Old Quarries	1912	704441
Q	289m NE	Unspecified Old Quarries	1938	746496
R	290m SE	Cemetery	1967	706101
R	290m SE	Cemetery	1979	706101
R	290m SE	Cemetery	1949	727734
R	291m SE	Cemetery	1938	768143
R	294m SE	Cemetery	1909	721298
R	294m SE	Cemetery	1928	734641
R	295m SE	Cemetery	1912	759275
R	295m SE	Cemetery	1938	781532
R	295m SE	Cemetery	1891	721571
R	303m SE	Cemetery	1892	721571
Q	303m NE	Unspecified Heap	1967	763135
S	306m W	Unspecified Heap	1928	702418
S	306m W	Unspecified Heap	1909	702418
Q	312m NE	Unspecified Heap	1949	731695
5	324m S	Unspecified Heap	1967	650620
6	326m N	Tramway Sidings	1891	697810
S	329m W	Unspecified Heap	1967	739036
S	329m W	Unspecified Heap	1949	743359
Q	331m NE	Unspecified Old Quarries	1909	715511
T	334m S	Unspecified Quarry	1891	703009



ID	Location	Land Use	Date	Group ID
S	335m SW	Unspecified Heap	1938	782331
S	335m SW	Unspecified Heap	1891	747059
L	337m NW	Unspecified Quarries	1909	772182
Q	343m NE	Unspecified Old Quarries	1938	769973
7	343m N	Tramway Sidings	1909	778103
8	353m SW	Railway Building	1938	670134
T	353m S	Unspecified Quarry	1912	696560
T	356m S	Unspecified Quarry	1909	731038
T	356m S	Sandstone Quarry	1851	687501
T	356m S	Unspecified Disused Quarry	1928	765742
T	357m S	Unspecified Disused Quarry	1938	765742
T	358m S	Unspecified Quarry	1938	772694
U	358m NW	Unspecified Works	1967	727929
U	358m NW	Unspecified Works	1979	727929
U	361m NW	Railway Building	1949	670130
U	361m NW	Refuse Heap	1909	737440
V	361m N	Unspecified Quarry	1909	787030
V	361m N	Unspecified Quarry	1928	780492
V	362m N	Colliery	1912	754212
V	362m N	Colliery	1912	754212
U	371m NW	Refuse Heap	1938	748372
U	371m NW	Refuse Heap	1928	748372
V	371m N	Unspecified Quarry	1938	767554
V	371m N	Unspecified Quarry	1891	761676
V	373m N	Unspecified Quarry	1938	741079
9	379m N	Unspecified Heap	1949	650618
V	381m N	Unspecified Quarry	1912	748922
W	388m S	Refuse Heap	1949	718369



ID	Location	Land Use	Date	Group ID
10	388m SE	Unspecified Heap	1949	650619
W	394m S	Refuse Heap	1928	721866
W	394m S	Refuse Heap	1938	721866
X	398m N	Unspecified Quarry	1938	730180
Y	400m NW	Chimney	1967	684541
X	401m N	Unspecified Quarry	1967	714792
X	401m N	Unspecified Quarry	1979	714792
X	401m N	Unspecified Quarry	1949	748926
X	402m N	Unspecified Quarry	1912	778015
T	402m S	Unspecified Heap	1967	776090
T	402m S	Unspecified Heap	1949	735999
Z	405m N	Unspecified Pit	1967	762682
Z	405m N	Unspecified Pit	1979	762682
AA	405m W	Unspecified Pit	1928	745060
AA	405m W	Unspecified Pit	1909	745060
V	406m N	Unspecified Quarry	1949	718951
L	412m NW	Unspecified Quarries	1891	695604
Y	415m NW	Refuse Heap	1938	677463
W	416m S	Refuse Heap	1928	730788
W	419m S	Refuse Heap	1938	730778
AB	424m SW	Railway Sidings	1928	701988
T	424m SE	Unspecified Quarry	1892	705654
AB	429m SW	Railway Sidings	1949	705830
V	434m NE	Unspecified Quarry	1892	776809
V	434m NE	Unspecified Quarry	1967	723226
V	434m NE	Unspecified Quarry	1979	764934
V	435m N	Sandstone Quarry	1851	687489
AC	437m NW	Unspecified Quarries	1967	765701



ID	Location	Land Use	Date	Group ID
AC	437m NW	Unspecified Quarries	1979	765701
AC	437m NW	Unspecified Quarries	1949	699553
AD	442m NW	Railway Building	1949	670126
T	442m S	Unspecified Disused Quarry	1967	737295
AE	452m NW	Unspecified Quarry	1949	778284
W	455m S	Unspecified Heap	1928	650621
AD	467m NW	Unspecified Pit	1909	690745
11	471m N	Unspecified Mill	1891	720297
T	471m S	Unspecified Disused Quarry	1949	758798
AF	474m N	Tramway Sidings	1938	788905
V	476m N	Tramway Sidings	1892	694013
V	479m N	Unspecified Heap	1967	755058
V	479m N	Unspecified Heap	1979	755058
AE	481m NW	Unspecified Quarry	1967	741048
AE	481m NW	Unspecified Quarry	1979	741048
V	485m N	Unspecified Heaps	1967	759191
V	485m N	Unspecified Heaps	1979	759191
AF	487m N	Tramway Sidings	1912	693937

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

14

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 21**

ID	Location	Land Use	Date	Group ID
C	138m SW	Unspecified Tank	1976	102695
C	139m SW	Unspecified Tank	1993	102695



ID	Location	Land Use	Date	Group ID
F	169m SE	Unspecified Tank	1910	88978
F	169m SE	Unspecified Tank	1929	88978
F	172m S	Unspecified Tank	1976	91851
F	172m S	Unspecified Tank	1993	91851
F	173m S	Unspecified Tank	1993	91851
C	211m SW	Unspecified Tank	1962	84104
C	213m SW	Unspecified Tank	1983	89548
C	213m SW	Unspecified Tank	1987	89548
C	219m SW	Unspecified Tank	1891	98737
C	219m SW	Unspecified Tank	1910	98737
C	219m SW	Unspecified Tank	1929	98737
N	269m S	Unspecified Tank	1891	84103

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

9

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 21**

ID	Location	Land Use	Date	Group ID
A	65m SW	Electricity Substation	1976	57539
A	66m SW	Electricity Substation	1993	57539
A	66m SW	Electricity Substation	1993	57539
C	128m W	Electricity Substation	1976	53098
C	128m W	Electricity Substation	1993	53098
C	128m W	Electricity Substation	1993	53098
F	193m S	Electricity Substation	1976	53962
F	194m S	Electricity Substation	1993	49820



ID	Location	Land Use	Date	Group ID
F	194m S	Electricity Substation	1993	49820

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

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'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

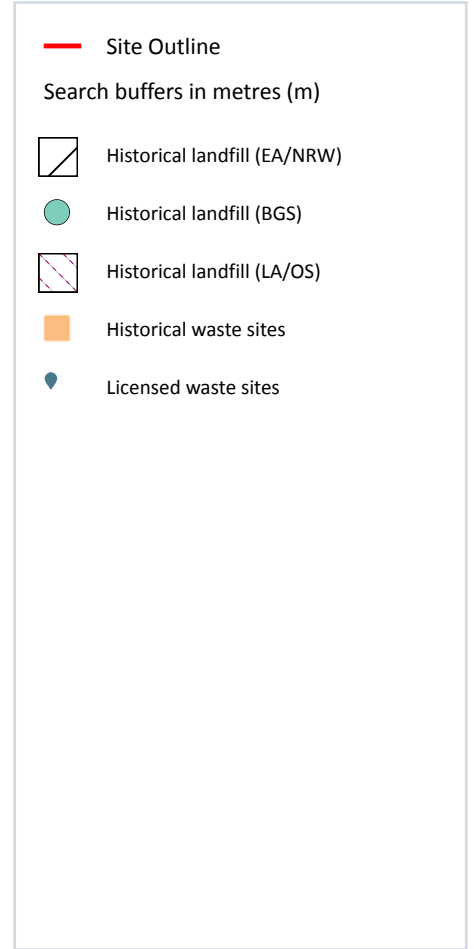
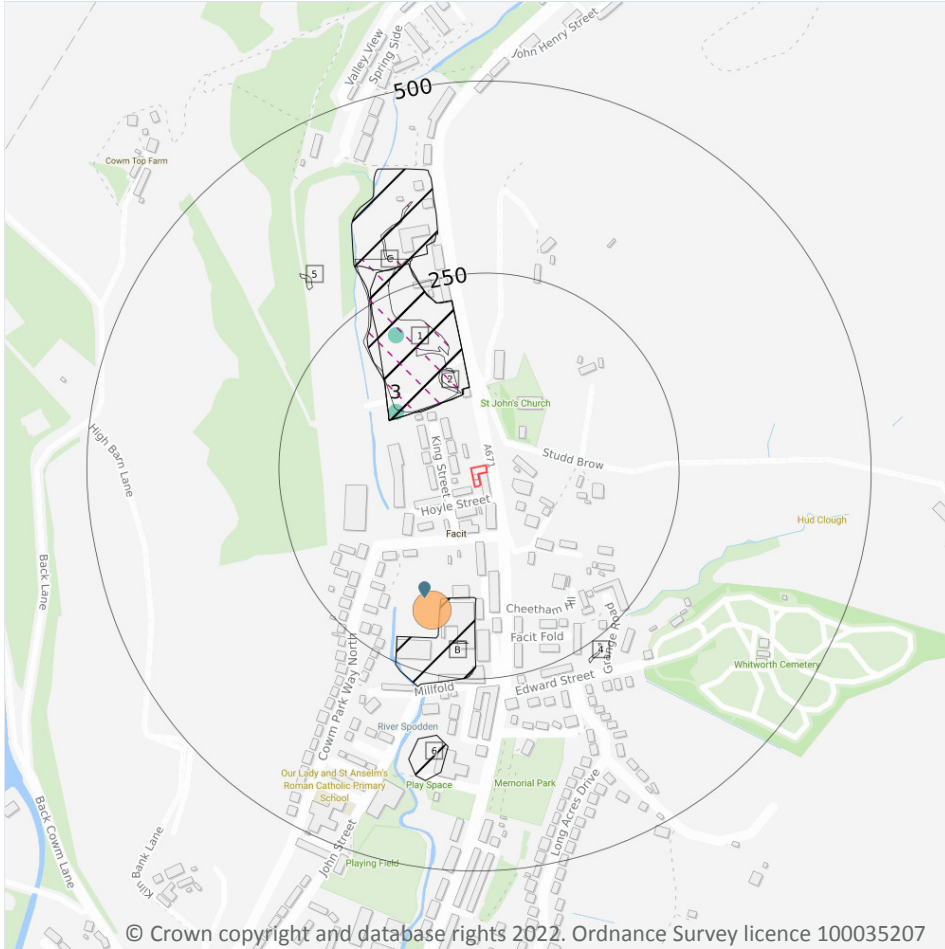
0

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'.

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

2

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.

Features are displayed on the Waste and landfill map on **page 31**

ID	Location	Address	BGS Number	Risk	Waste Type
3	122m NW	Leaven Greave Fold, Market St, Whitworth, Rochdale	2733	No risk to aquifer	N/A
A	198m NW	Leavengrave Fold, Market St, Whitworth	2738	No risk to aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

7

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

Features are displayed on the Waste and landfill map on **page 31**

ID	Location	Site address	Source	Data type
A	94m NW	Refuse Tip	1975 mapping	Polygon
2	98m N	Refuse Tip	1962 mapping	Polygon
B	202m S	Refuse Tip	1975 mapping	Polygon
4	257m SE	Refuse Tip	1962 mapping	Polygon
C	278m N	Disused Refuse Tip	1975 mapping	Polygon
C	291m N	Refuse Tip	1962 mapping	Polygon
5	313m NW	Refuse Tips	1962 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

4

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

Features are displayed on the Waste and landfill map on **page 31**



ID	Location	Details		
1	92m NW	Site Address: Leavengreave, Off Market Street, Facit, Whitworth, Lancashire Licence Holder Address: -	Waste Licence: - Site Reference: R021, K1/14/021 Waste Type: Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Whitworth Urban District Council Licence Holder: Whitworth Urban District Council First Recorded 01/01/1960 Last Recorded: 31/12/1973
A	93m N	Site Address: Trains - Barlow Bottoms, Off Market Street, Facit, Whitworth, Lancashire Licence Holder Address: -	Waste Licence: Yes Site Reference: R033, WD 100/33, K1/14/033, Licence No 21 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 03/05/1977 Licence Surrender: -	Operator: - Licence Holder: A Train and Sons Limited First Recorded - Last Recorded: -
B	143m S	Site Address: Festival Park, Off Millfold, Facit, Whitworth, Lancashire Licence Holder Address: -	Waste Licence: - Site Reference: K1/14/22, R022 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
6	327m S	Site Address: Mill Lodge, Off John Street, Facit, Whitworth, Lancashire Licence Holder Address: -	Waste Licence: - Site Reference: K1/14/010, R 010 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

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 31**



ID	Location	Address	Further Details	Date
B	144m S	Site Address: Spodden Mill, Station Road, Facit, ROCHDALE, Greater Manchester, OL12 8LJ	Type of Site: Waste Transfer Station (Conversion) Planning application reference: 2007/672 Description: Scheme comprises change of use of part of mill to a waste transfer station including proposed canopy associated with it. Construction - canopy roof. An application (ref: 2007/672) for detailed planning permission was submitted to Rossendale B.C. Data source: Historic Planning Application Data Type: Point	-

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

3.6 Licensed waste sites

Records within 500m	1
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 31**

ID	Location	Details		
B	149m SW	Site Name: Northwest Parts Site Address: Spodden Mill, 8, Station Road, Facit, Rochdale, Lancashire, OL12 8LJ Correspondence Address: -	Type of Site: 75kte Vehicle Depollution Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AHM001 EPR reference: EA/EPR/BP3891LD/A001 Operator: Ahmed Irfan Waste Management licence No: 100585 Annual Tonnage: 2499	Issue Date: 16/10/2008 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

3.7 Waste exemptions

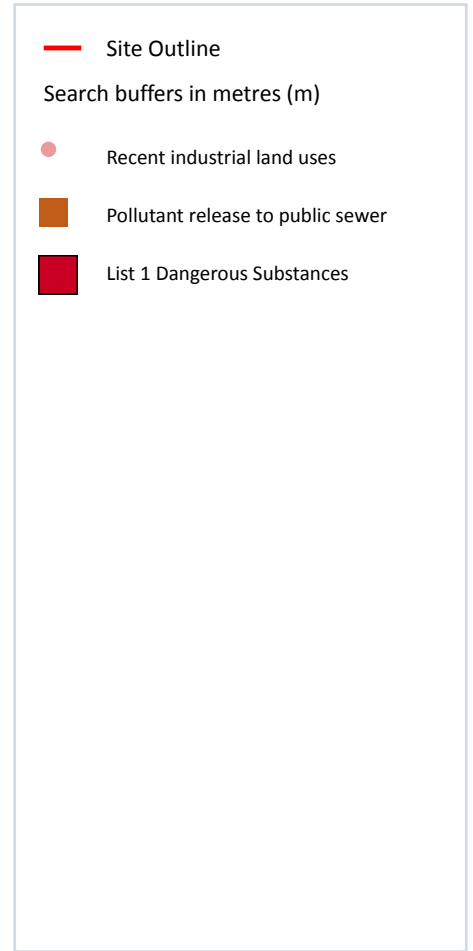
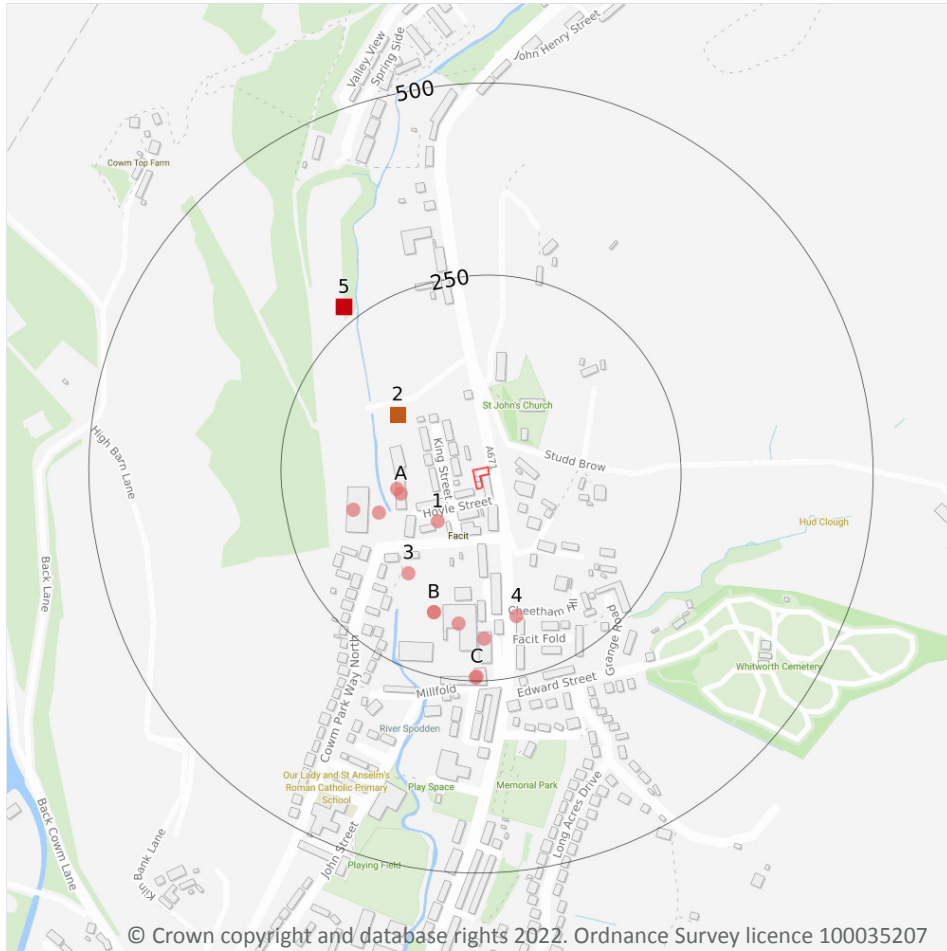
Records within 500m	0
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

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

13

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Company	Address	Activity	Category
1	67m SW	Electricity Sub Station	Lancashire, OL12	Electrical Features	Infrastructure and Facilities
A	98m W	GB Ductwork Ltd	Station Road, Facit, Rochdale, Lancashire, OL12 8LJ	Cooling and Refrigeration	Industrial Products

ID	Location	Company	Address	Activity	Category
A	102m W	Works	Lancashire, OL12	Unspecified Works Or Factories	Industrial Features
A	131m W	Electricity Sub Station	Lancashire, OL12	Electrical Features	Infrastructure and Facilities
3	141m SW	Tank	Lancashire, OL12	Tanks (Generic)	Industrial Features
A	163m W	Works	Lancashire, OL12	Unspecified Works Or Factories	Industrial Features
B	170m S	Studio Studio	Unit 4 Spodden Mill, Station Road, Facit, Rochdale, Lancashire, OL12 8LJ	Recording Studios and Record Companies	IT, Advertising, Marketing and Media Services
B	170m S	Vale Garden Sheds & Garages	Ground Floor Office Block, Spodden Mill, Station Road, Facit, Rochdale, Lancashire, OL12 8LJ	Garden Goods	Consumer Products
4	173m S	Tank	Lancashire, OL12	Tanks (Generic)	Industrial Features
B	177m S	Works	Lancashire, OL12	Unspecified Works Or Factories	Industrial Features
B	196m S	The Fudge Factory	Spring Place, Facit, Rochdale, Lancashire, OL12 8DN	Baking and Confectionery	Foodstuffs
C	244m S	Works	Lancashire, OL12	Unspecified Works Or Factories	Industrial Features
C	245m S	B C H Rochdale Ltd	Coates Engineering (Int) Ltd, Millfold, Facit, Rochdale, Lancashire, OL12 8DN	Instrumentation Engineers	Engineering Services

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.



4.3 Electricity cables

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

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

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

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

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

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

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

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

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

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

0

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.

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

0

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

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

1

Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Address	Details	
2	121m NW	BARDON AGGREGATES LTD, BRITANNIA QUARRY, WHITWORTH, ROCHDALE, LANCASHIRE	Permission reference: AY6686 Local Authority: ROCHDALE METROPOLITAN BOROUGH COUNCIL First received date: 01/06/2001	Last received date: 01/01/2018 Status: RECEIVED

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

4.16 List 1 Dangerous Substances

Records within 500m

1

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.

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Name	Status	Receiving Water	Authorised Substances
5	271m NW	Bardon (england) Ltd., Britannia Quarry, Whitworth	Not Active	River Roch, Manchester Ship Canal	Mercury (other), Cadmium

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

4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

0

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

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

4.19 Pollution inventory substances

Records within 500m

0

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

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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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



4.21 Pollution inventory radioactive waste

Records within 500m

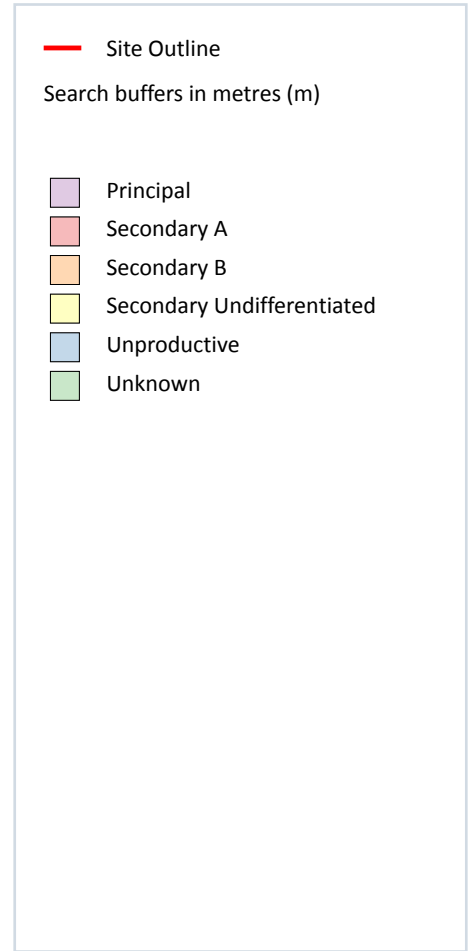
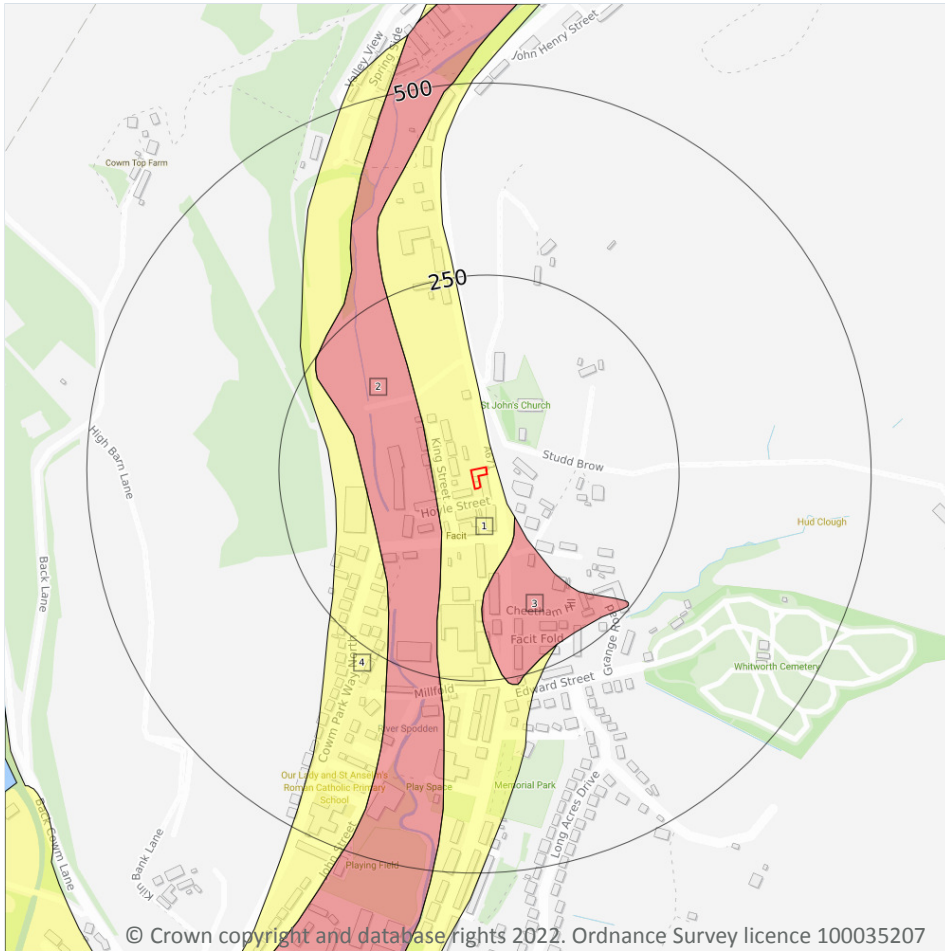
0

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

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



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

4

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 42**

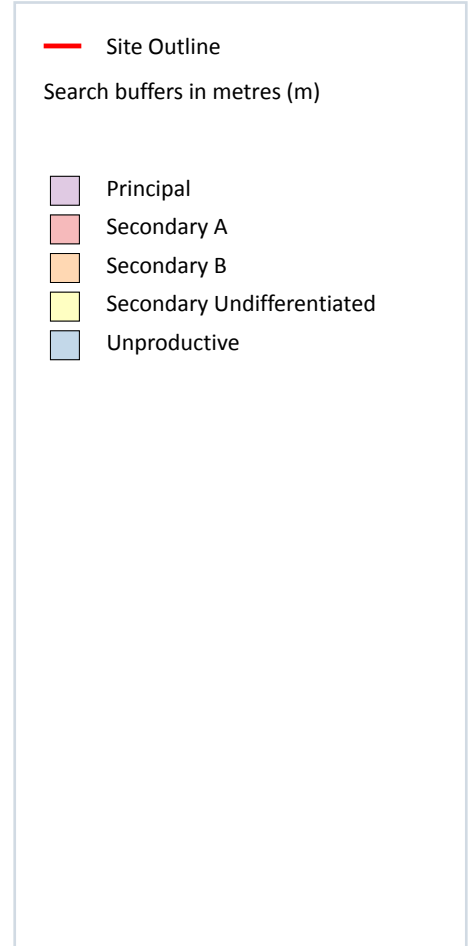
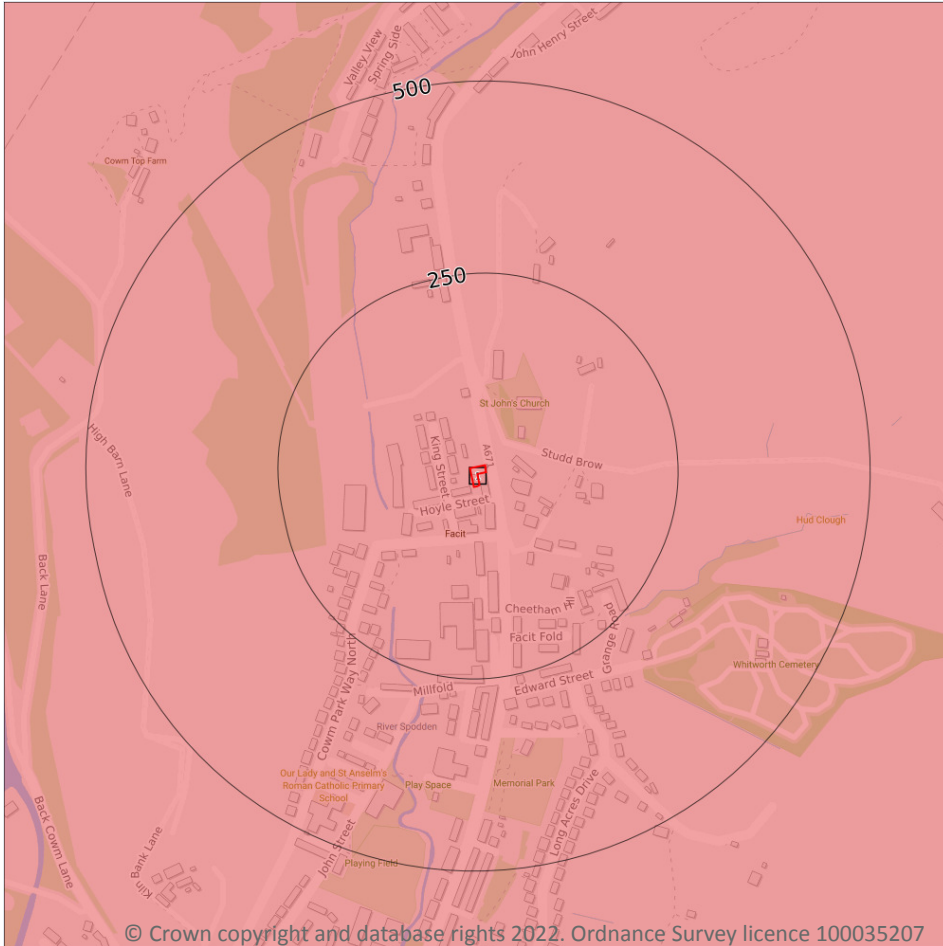
ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	51m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	59m SE	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
4	138m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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



Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

1

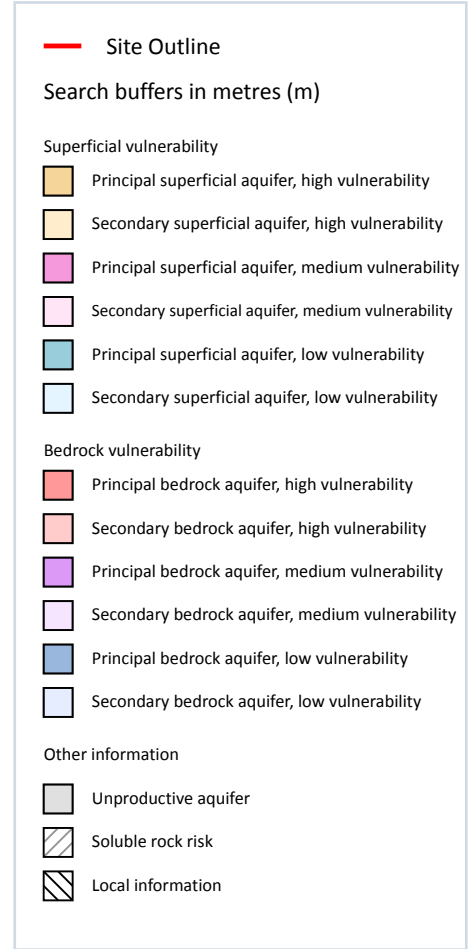
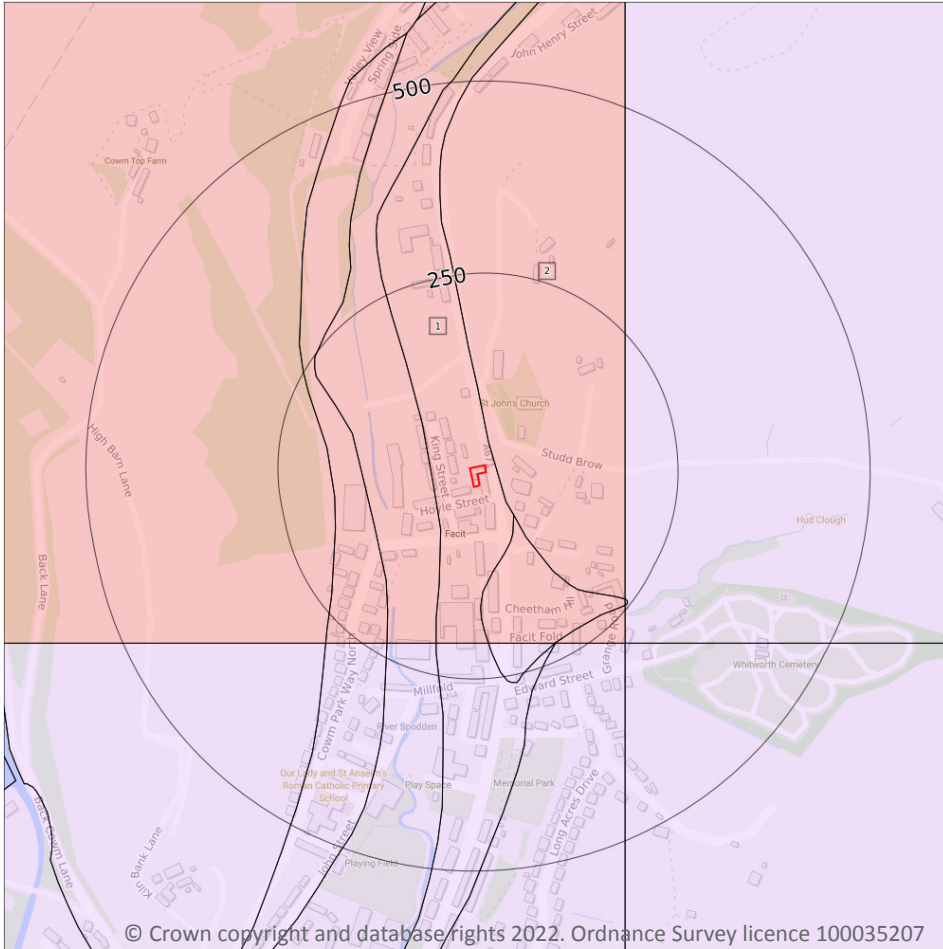
Aquifer status of groundwater held within bedrock geology.

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



5.3 Groundwater vulnerability

Records within 50m

2

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 - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	12m E	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

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

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.

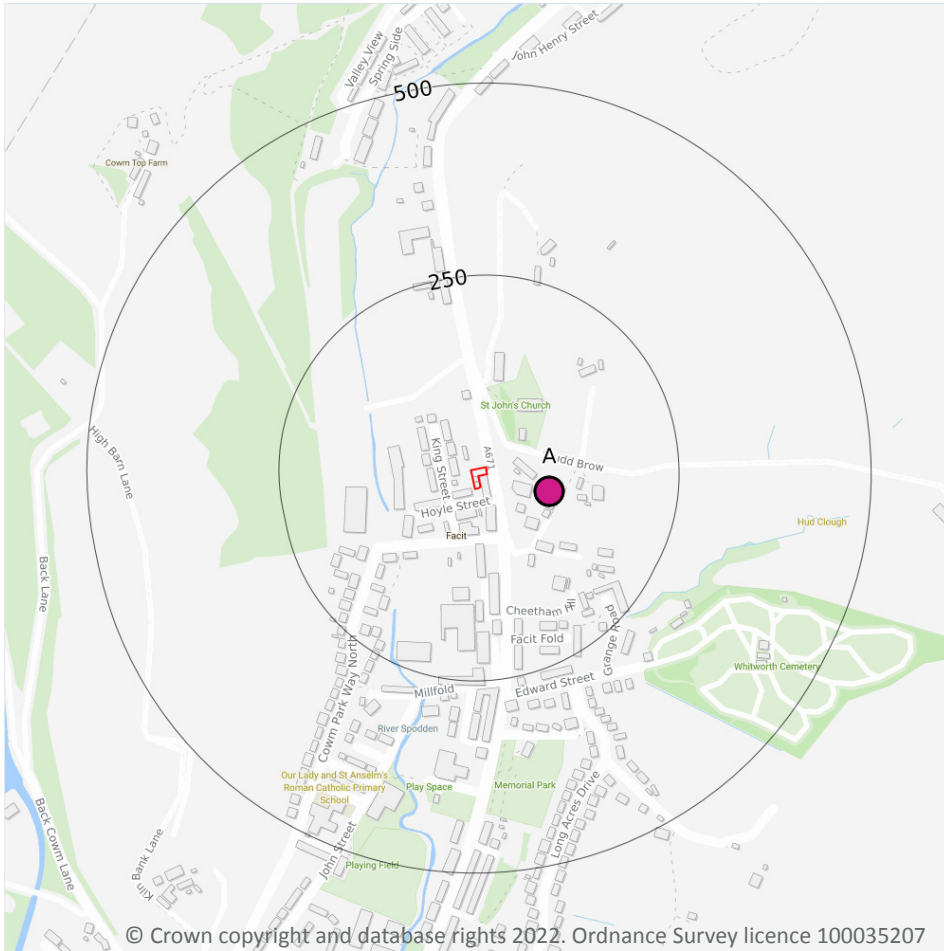
5.5 Groundwater vulnerability- local information

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



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5.6 Groundwater abstractions

Records within 2000m

14

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 47**

ID	Location	Details	
A	84m E	Status: Historical Licence No: 2569002118 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "SPRING FED CATCHPIT AT NEW BARN, WHITWORTH" Data Type: Point Name: JACKSON Easting: 388900 Northing: 419200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -
A	84m E	Status: Historical Licence No: 2569002118 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: SPRING FED CATCHPIT AT NEW BARN, WHITWORTH Data Type: Point Name: JACKSON Easting: 388900 Northing: 419200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -
-	757m S	Status: Historical Licence No: 2569002265 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "A BOREHOLE AT TONG LANE, WHITWORTH, ROCHDALE" Data Type: Point Name: ANGLO FELT INDUSTRIES LTD Easting: 388550 Northing: 418490	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/01/1998 Expiry Date: - Issue No: 100 Version Start Date: 28/01/1998 Version End Date: -
-	757m S	Status: Historical Licence No: 2569002265 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: A BOREHOLE AT TONG LANE, WHITWORTH, ROCHDALE Data Type: Point Name: ANGLO FELT INDUSTRIES LTD Easting: 388550 Northing: 418490	Annual Volume (m ³): 4546 Max Daily Volume (m ³): 18.9 Original Application No: - Original Start Date: 28/01/1998 Expiry Date: - Issue No: 100 Version Start Date: 28/01/1998 Version End Date: -

ID	Location	Details	
-	1048m S	Status: Historical Licence No: 2569002067 Details: Process water Direct Source: Ground Water - North West Region Point: "WELL AT BRIDGE MILLS, WHITWORTH NEAR ROCHDALE" Data Type: Point Name: MATTHEW STUTTARD & BROS LTD Easting: 388500 Northing: 418200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/02/1966 Version End Date: -
-	1048m S	Status: Historical Licence No: 2569002067 Details: Process water Direct Source: Ground Water - North West Region Point: WELL AT BRIDGE MILLS, WHITWORTH NEAR ROCHDALE Data Type: Point Name: MATTHEW STUTTARD & BROS LTD Easting: 388500 Northing: 418200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/02/1966 Version End Date: -
-	1307m S	Status: Historical Licence No: 2569002115 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "SPRING FED WELL AT HIGH BARN FARM, WHITWORTH, ROCHDALE" Data Type: Point Name: JACKSON Easting: 388700 Northing: 417900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 03/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/03/1966 Version End Date: -
-	1307m S	Status: Historical Licence No: 2569002115 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: SPRING FED WELL AT HIGH BARN FARM, WHITWORTH, ROCHDALE Data Type: Point Name: JACKSON Easting: 388700 Northing: 417900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 03/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/03/1966 Version End Date: -

ID	Location	Details	
-	1418m S	Status: Historical Licence No: 2569002119 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "SPRING FED CATCHPIT AT HORSE CROFT FARM, WHITWORTH, ROCHDAL" Data Type: Point Name: JACKSON Easting: 388600 Northing: 417800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/01/1966 Version End Date: -
-	1418m S	Status: Historical Licence No: 2569002119 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: SPRING FED CATCHPIT AT HORSE CROFT FARM, WHITWORTH, ROCHDAL Data Type: Point Name: JACKSON Easting: 388600 Northing: 417800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/01/1966 Version End Date: -
-	1579m N	Status: Historical Licence No: 2569002131 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "SPRING AT WINTERBUTLEE FARM, SHAWFORTH, ROCHDALE, LAN" Data Type: Point Name: HAWORTH Easting: 389400 Northing: 420700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/02/1966 Version End Date: -
-	1579m N	Status: Historical Licence No: 2569002131 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: SPRING AT WINTERBUTLEE FARM, SHAWFORTH, ROCHDALE, LAN Data Type: Point Name: HAWORTH Easting: 389400 Northing: 420700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/02/1966 Version End Date: -

ID	Location	Details	
-	1616m S	Status: Historical Licence No: 2569002084 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "SPRING FED CATCHPIT AT WAINGAP FARM, WHITWORTH, ROCHDALE" Data Type: Point Name: ROYMIC CONSTRUCTION CO LTD Easting: 388600 Northing: 417600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 03/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/02/1966 Version End Date: -
-	1616m S	Status: Historical Licence No: 2569002084 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: SPRING FED CATCHPIT AT WAINGAP FARM, WHITWORTH, ROCHDALE Data Type: Point Name: ROYMIC CONSTRUCTION CO LTD Easting: 388600 Northing: 417600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 03/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/02/1966 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

7

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 47**

ID	Location	Details	
-	864m SW	Status: Historical Licence No: 2569002127 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SPRING MILL RESERVOIR AND COWM RESERVOIR AT WHITWO101 Data Type: Point Name: NORTH WEST WATER LTD Easting: 388100 Northing: 418700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -



ID	Location	Details	
-	864m SW	Status: Historical Licence No: 2569002127 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SPRING MILL RESERVOIR AND COWM RESERVOIR AT WHITWOŞ101 Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 388100 Northing: 418700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -
-	864m SW	Status: Active Licence No: 2569002127 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SPRING MILL RESERVOIR AND COWM RESERVOIR AT WHITWORTH Data Type: Point Name: United Utilities Water Ltd Easting: 388100 Northing: 418700	Annual Volume (m ³): 4,318,700 Max Daily Volume (m ³): 4,318,700 Original Application No: 1781 Original Start Date: 24/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -
-	1023m S	Status: Historical Licence No: 2569002068 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR AT BRIDGE MILLS, WHITWORTHROCHDALE" Data Type: Point Name: MATTHEW STUTTARD & BROS LTD Easting: 388600 Northing: 418200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/02/1966 Version End Date: -
-	1023m S	Status: Historical Licence No: 2569002068 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR AT BRIDGE MILLS, WHITWORTHROCHDALE Data Type: Point Name: MATTHEW STUTTARD & BROS LTD Easting: 388600 Northing: 418200	Annual Volume (m ³): 3636.8 Max Daily Volume (m ³): 36.368 Original Application No: - Original Start Date: 04/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 04/02/1966 Version End Date: -



ID	Location	Details	
-	1847m S	Status: Historical Licence No: 2569002066 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: R SPODDEN AT WHITWORTH, LANCS Data Type: Point Name: GUARDIAN CONTRACTS LTD Easting: 388400 Northing: 417400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 03/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 19/10/2000 Version End Date: -
-	1847m S	Status: Historical Licence No: 2569002066 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "R SPODDEN AT WHITWORTH, LANCS" Data Type: Point Name: GUARDIAN CONTRACTS LTD Easting: 388400 Northing: 417400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 03/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 19/10/2000 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	3
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Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 47**

ID	Location	Details	
-	864m SW	Status: Historical Licence No: 2569002127 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SPRING MILL RESERVOIR AND COWM RESERVOIR AT WHITWO101 Data Type: Point Name: NORTH WEST WATER LTD Easting: 388100 Northing: 418700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -

ID	Location	Details	
-	864m SW	Status: Historical Licence No: 2569002127 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SPRING MILL RESERVOIR AND COWM RESERVOIR AT WHITWO\$101 Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 388100 Northing: 418700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -
-	864m SW	Status: Active Licence No: 2569002127 Details: Potable Water Supply - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SPRING MILL RESERVOIR AND COWM RESERVOIR AT WHITWORTH Data Type: Point Name: United Utilities Water Ltd Easting: 388100 Northing: 418700	Annual Volume (m ³): 4,318,700 Max Daily Volume (m ³): 4,318,700 Original Application No: 1781 Original Start Date: 24/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -

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)

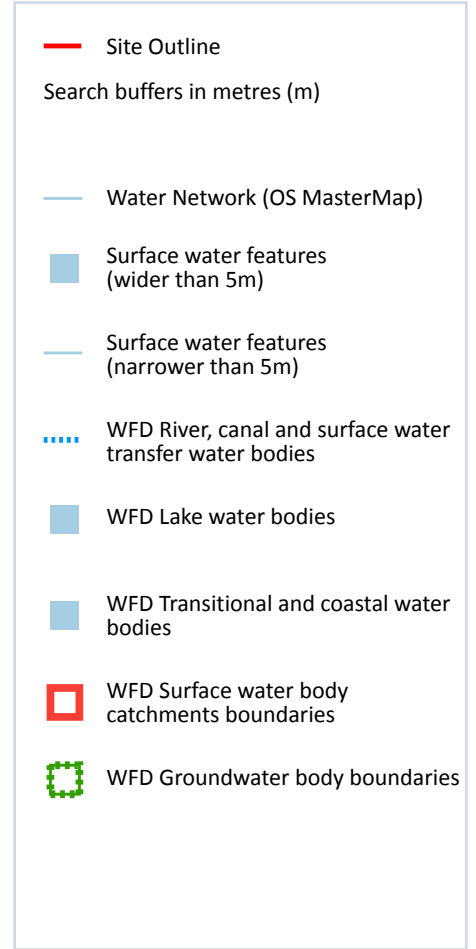
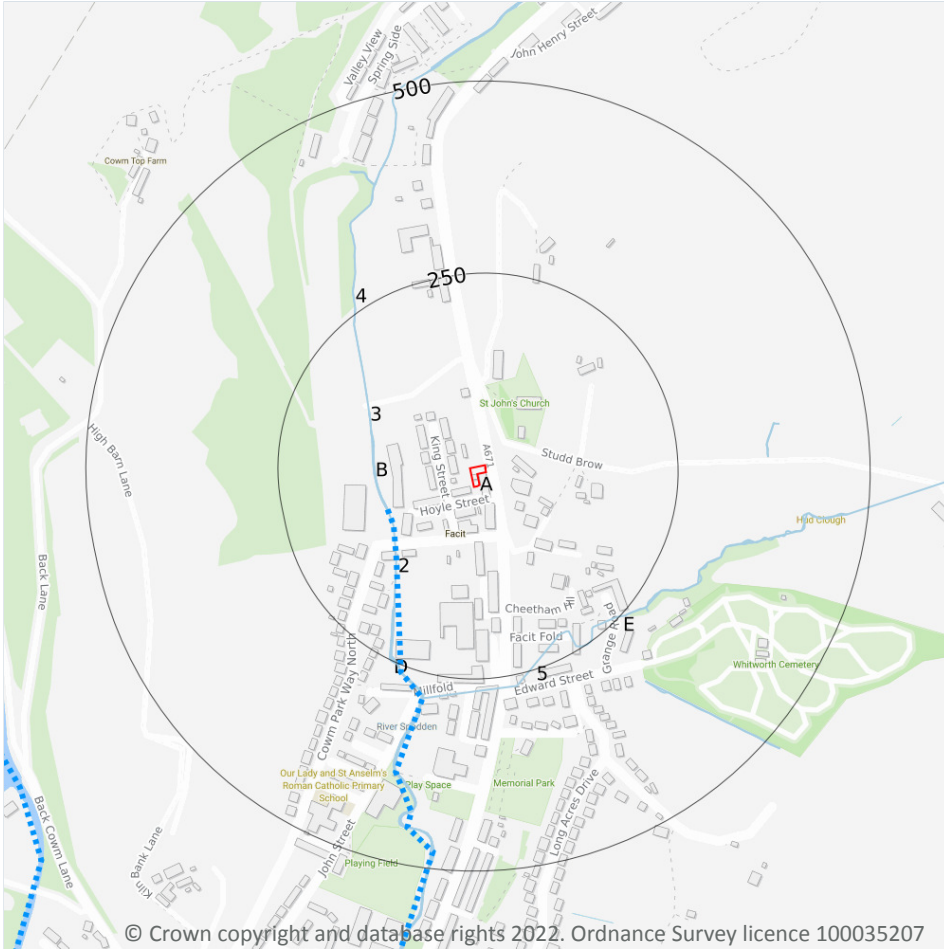
Records within 500m

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



6.1 Water Network (OS MasterMap)

Records within 250m

7

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

Features are displayed on the Hydrology map on **page 55**

ID	Location	Type of water feature	Ground level	Permanence	Name
2	115m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Spodden

ID	Location	Type of water feature	Ground level	Permanence	Name
B	116m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Spodden
3	150m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	River Spodden
4	161m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Spodden
D	187m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Spodden
5	220m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	247m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	3
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Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 55**

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 55**



ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Spodden	GB112069064730	Roch Irk Medlock	Irwell

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 55**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	115m W	River	Spodden	GB112069064730	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

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

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

Features are displayed on the Hydrology map on **page 55**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Northern Manchester Carboniferous Aquifers	GB41202G101800	Poor	Poor	Good	2019

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 the sea

Records within 50m

0

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

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

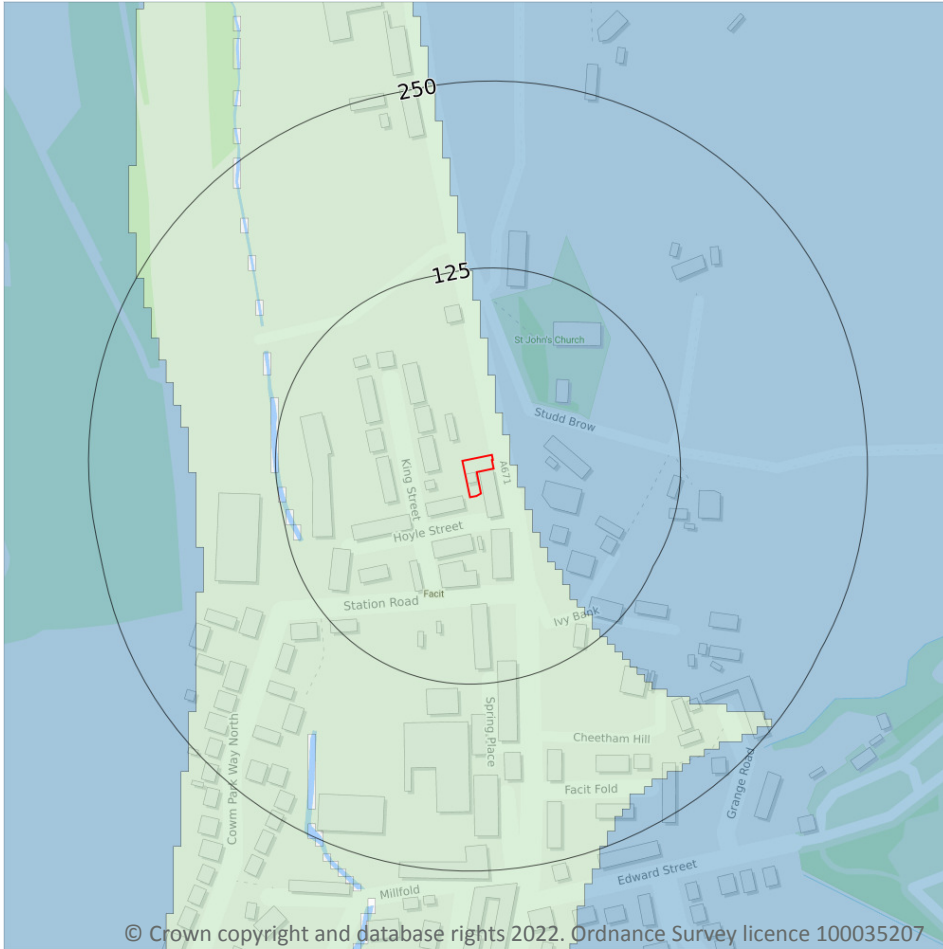
Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year 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



9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

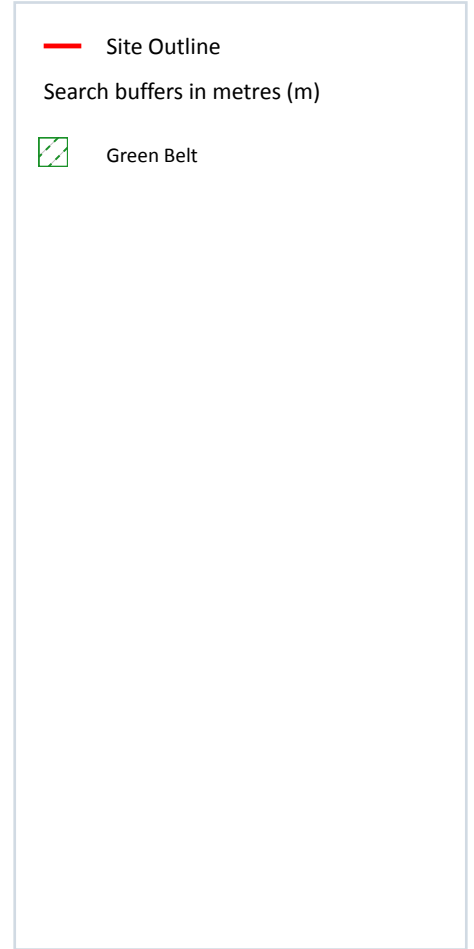
Low

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

Features are displayed on the Groundwater flooding map on **page 62**

This data is sourced from Ambient Risk Analytics.

10 Environmental designations



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

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

0

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.

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
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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	4
-----------------------------	----------

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

Features are displayed on the Environmental designations map on **page 63**

ID	Location	Name	Local Authority name
1	8m N	Merseyside and Greater Manchester	Rossendale
2	641m W	Merseyside and Greater Manchester	Rossendale
3	1067m N	Merseyside and Greater Manchester	Rossendale
4	1125m E	Merseyside and Greater Manchester	Rochdale

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

10.12 Proposed Ramsar sites

Records within 2000m	0
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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

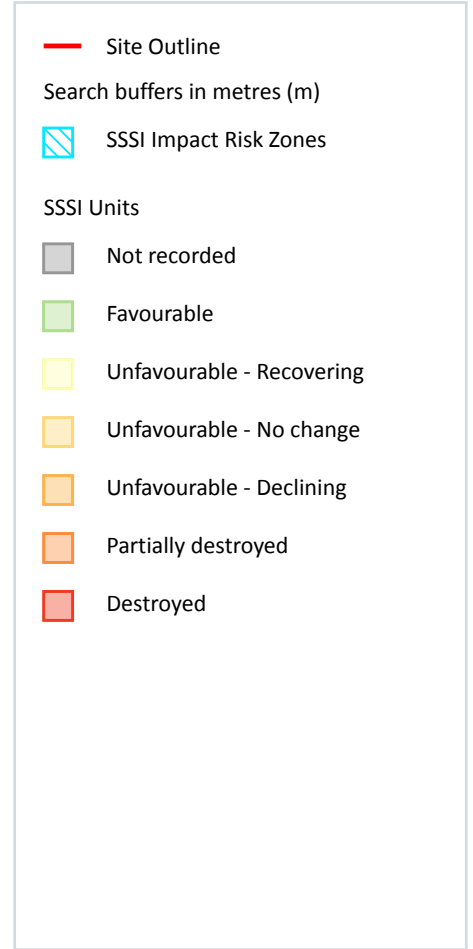
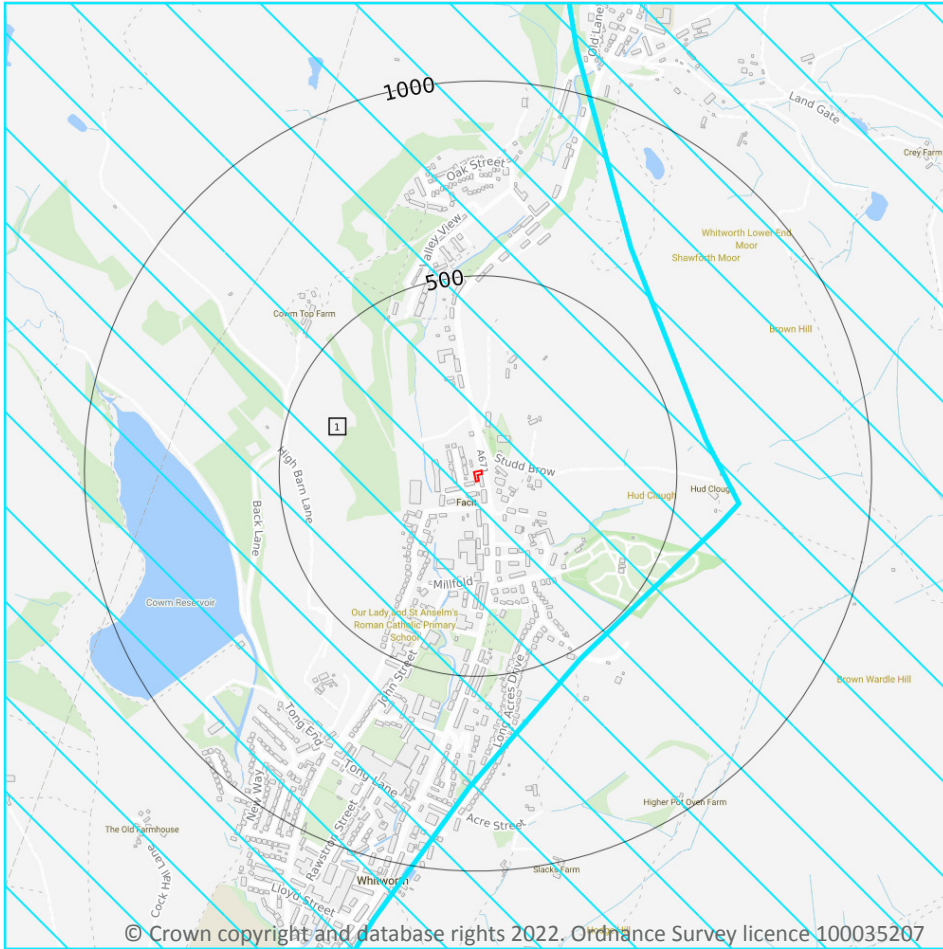
0

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



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 68**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 4000m². 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.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

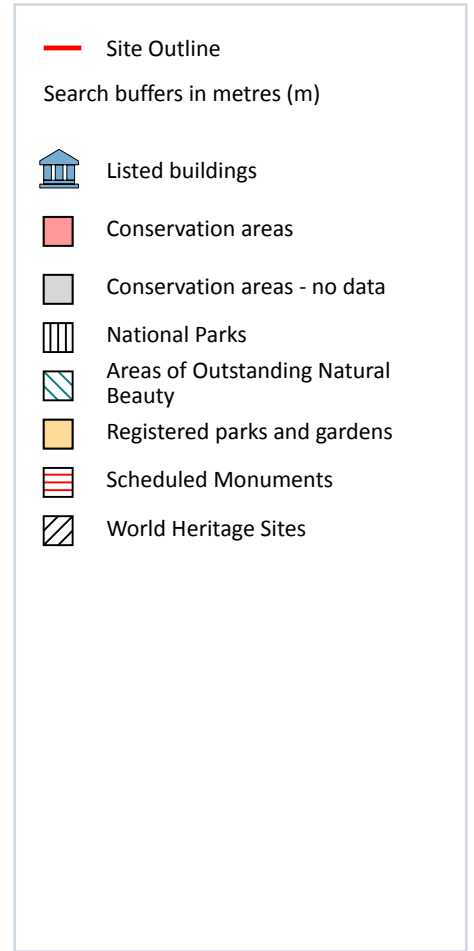
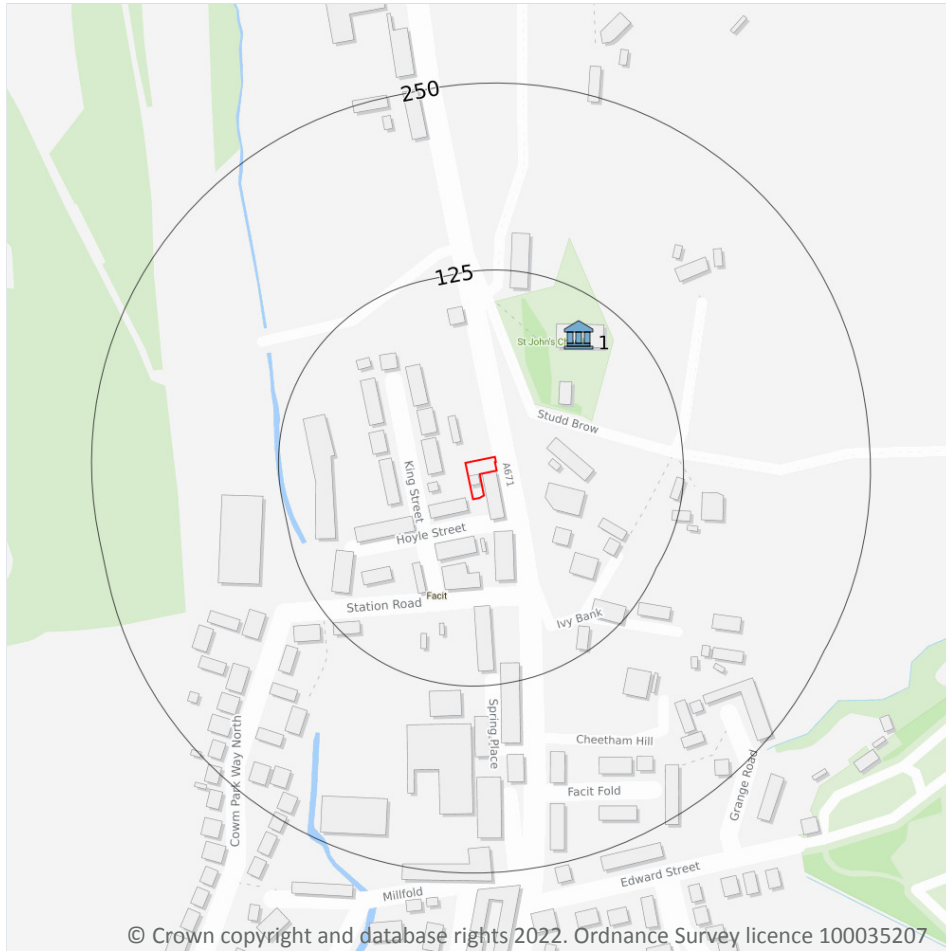
0

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



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

1

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

Features are displayed on the Visual and cultural designations map on **page 70**

ID	Location	Name	Grade	Reference Number	Listed date
1	99m NE	Church of St John Evangelist, Whitworth, Rossendale, Lancashire, OL12	II	1073548	30/11/1984

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



11.5 Conservation Areas

Records within 250m

0

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

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

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 Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

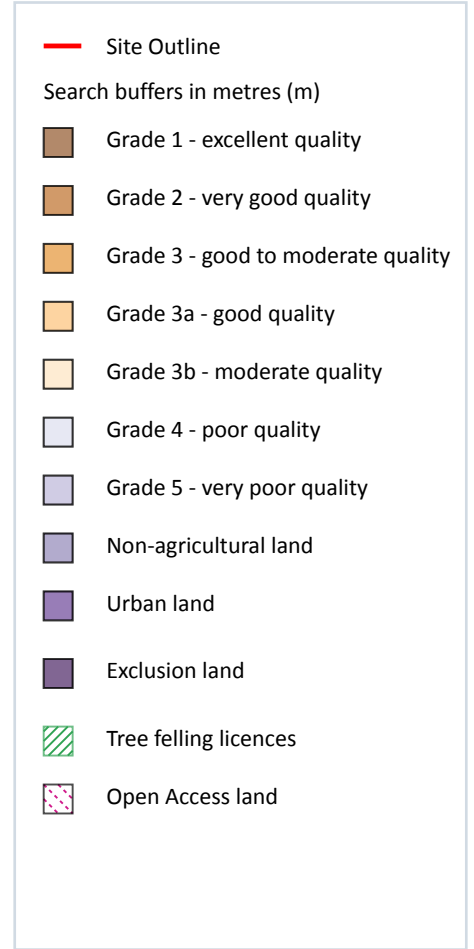
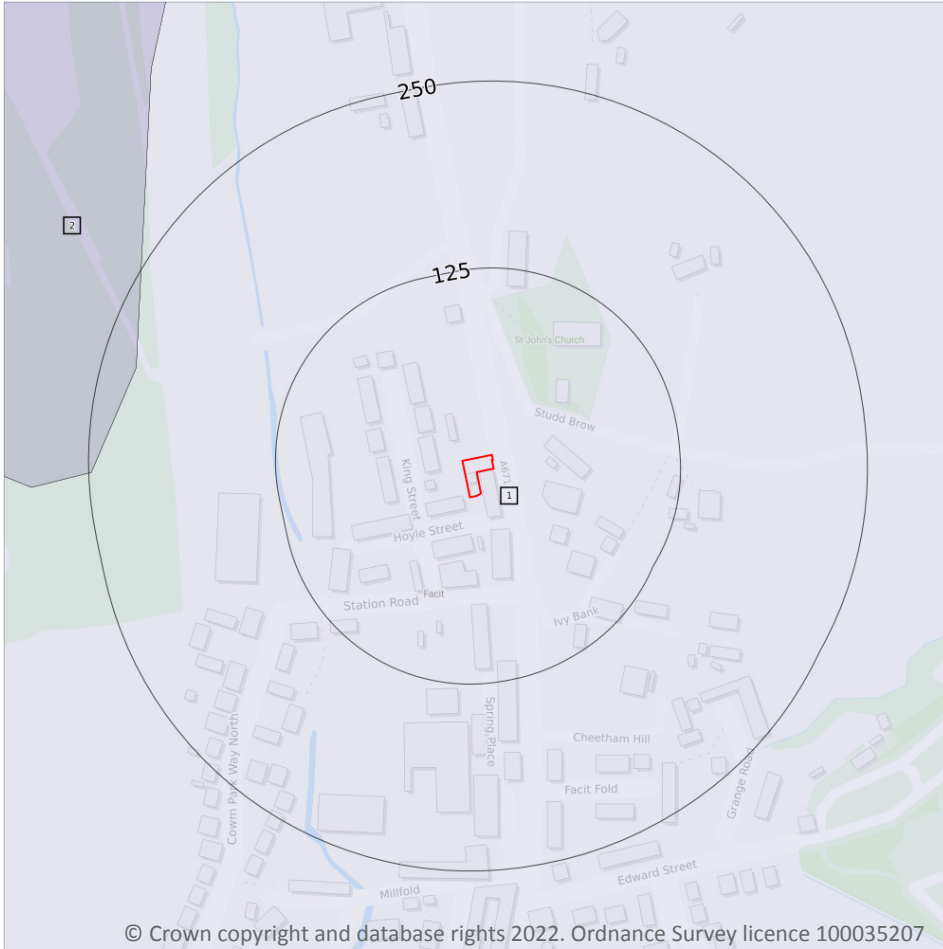
0

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

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



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

2

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 73**

ID	Location	Classification	Description
1	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

ID	Location	Classification	Description
2	227m W	Grade 5	Very poor quality agricultural land. Land with very severe limitations which restrict use to permanent pasture or rough grazing, except for occasional pioneer forage crops.

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. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

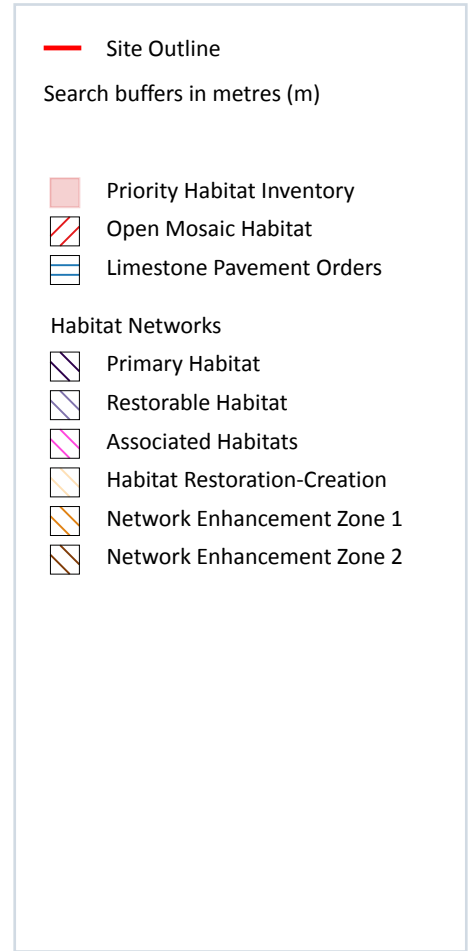
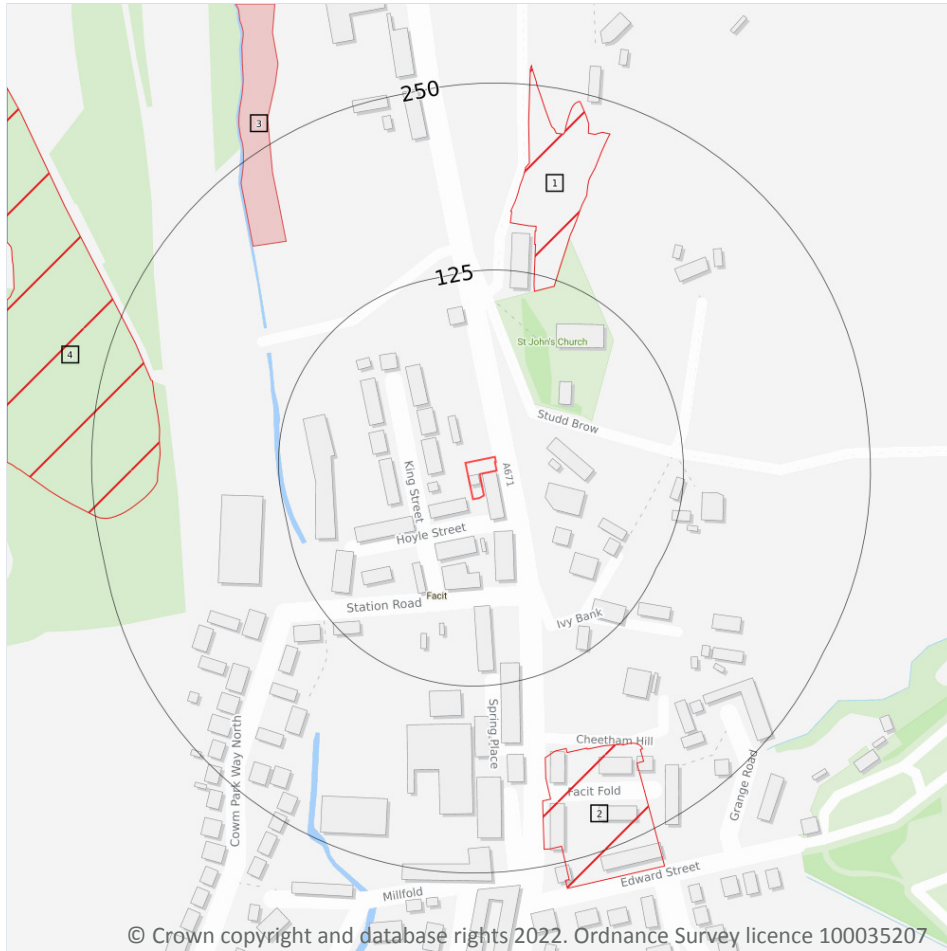
0

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



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 75**

ID	Location	Main Habitat	Other habitats
3	191m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

3

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 75**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	114m N	BRITPITS ref: 28102	Low	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography	-
2	177m S	NLUD Ref: 235500428	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-
4	204m W	BRITPITS ref: 28101	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

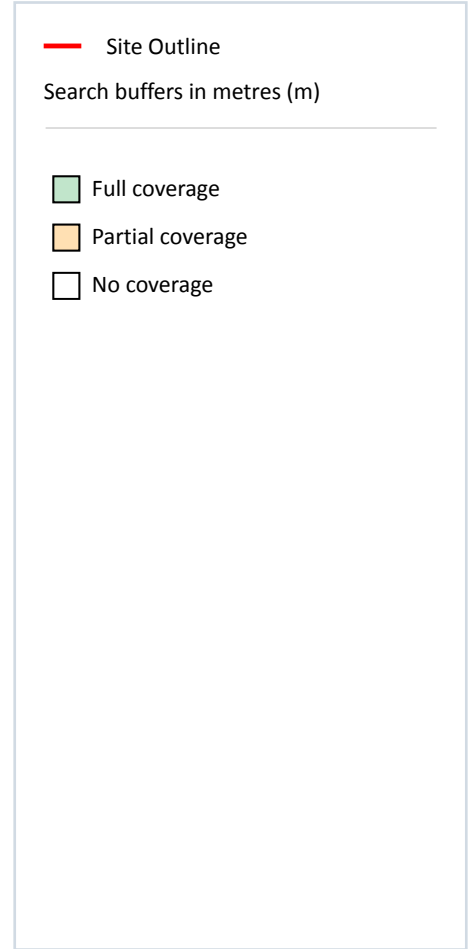
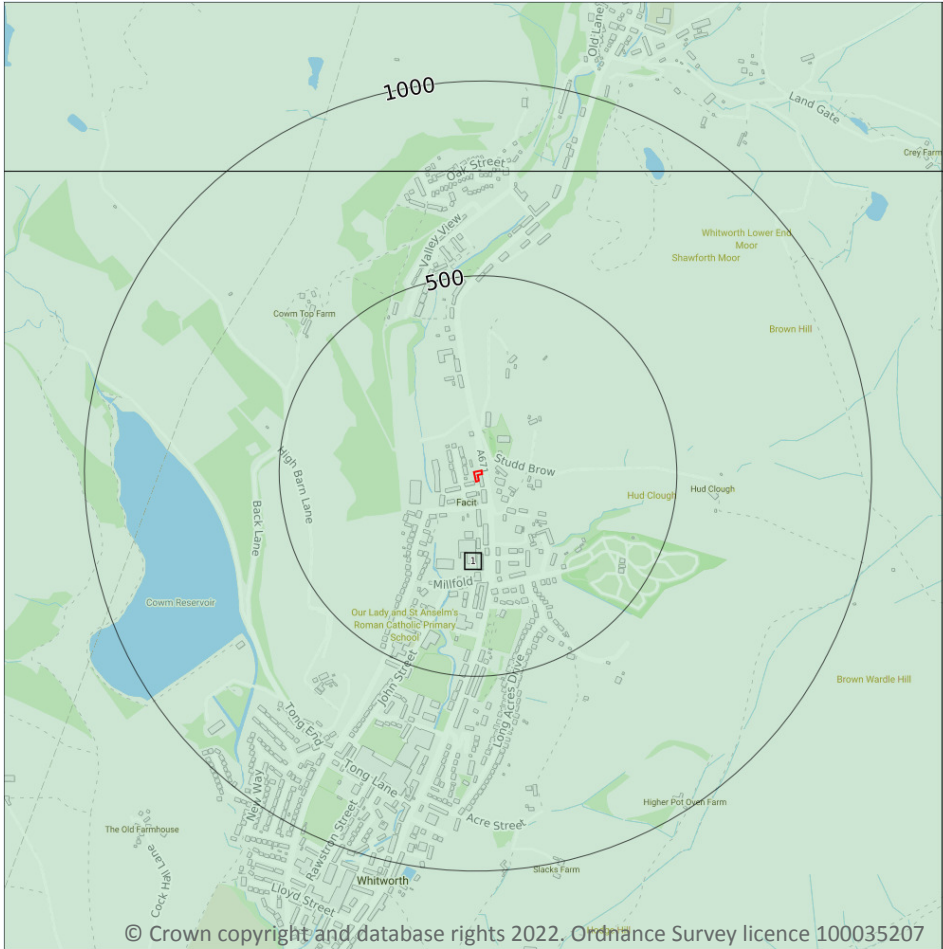
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Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable 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



14.1 10k Availability

Records within 500m

1

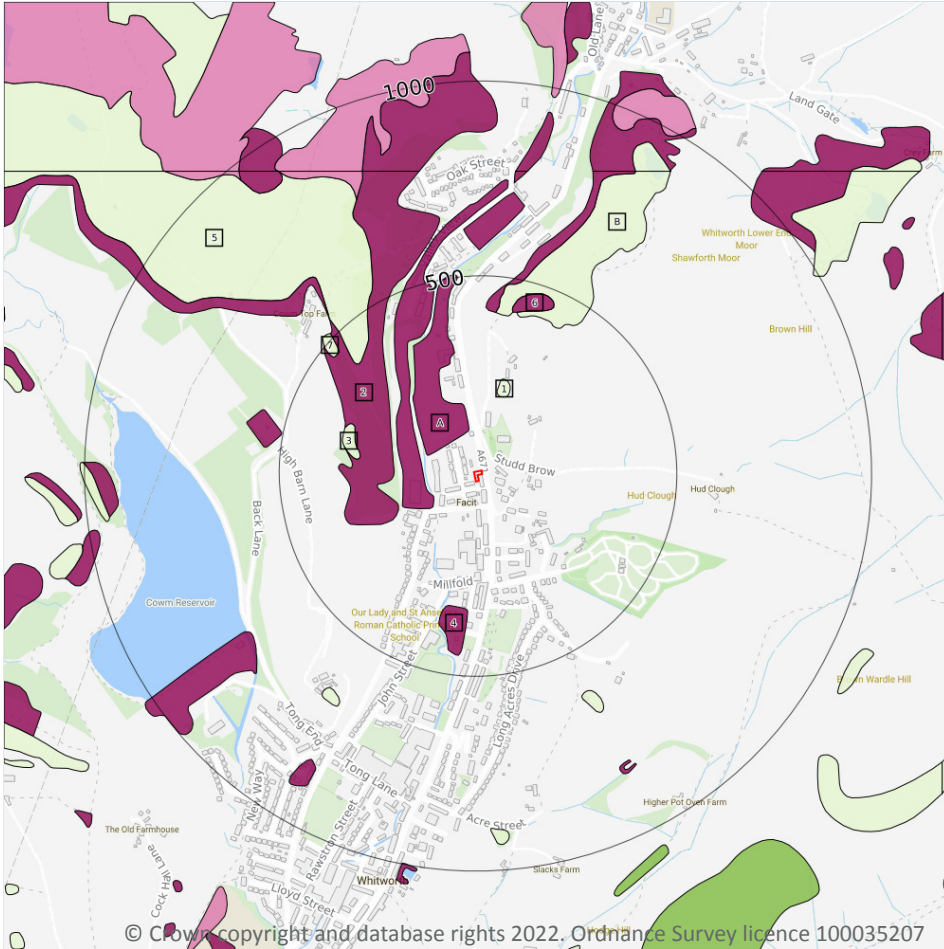
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 77**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD81NE

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

11

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 78**

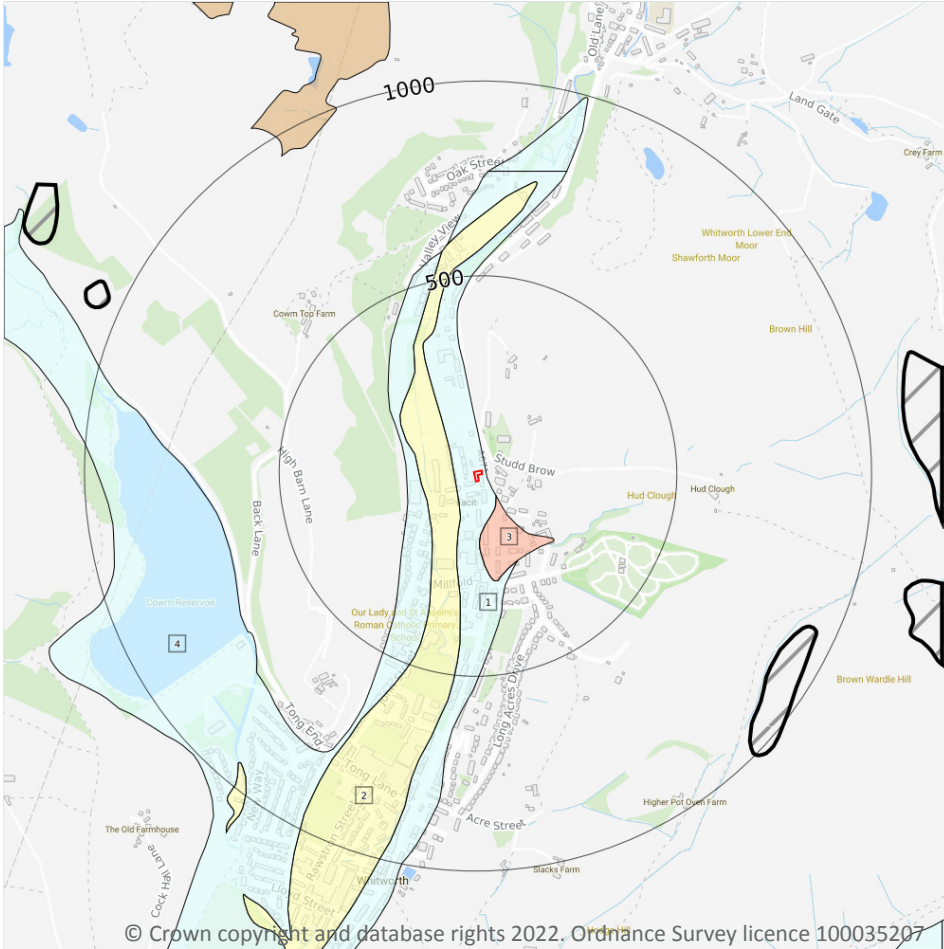
ID	Location	LEX Code	Description	Rock description
A	96m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	115m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
1	196m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
2	205m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
3	295m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
4	325m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	402m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
5	406m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
B	407m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	414m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	463m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline
Search buffers in metres (m)

▨ Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

4

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 80**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
2	51m W	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	59m SE	ALF-XSV	Alluvial Fan Deposits - Sand And Gravel	Sand And Gravel

ID	Location	LEX Code	Description	Rock description
4	135m W	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

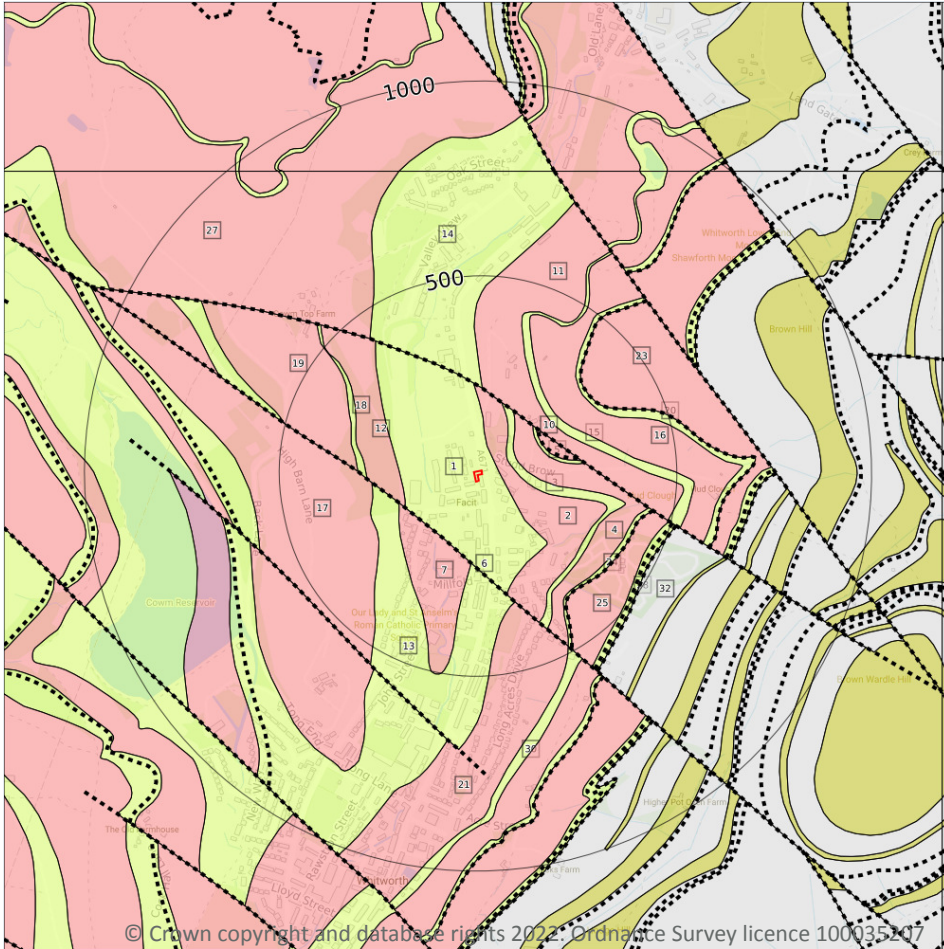
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (10k)
- Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

25

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 82**

ID	Location	LEX Code	Description	Rock age
1	On site	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
2	39m NE	UH-SDST	Upper Haslingden Flags - Sandstone	Yeadonian Sub-age
3	72m NE	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age



ID	Location	LEX Code	Description	Rock age
4	94m E	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
5	160m NE	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
7	166m SW	LH-SDST	Lower Haslingden Flags - Sandstone	Yeadonian Sub-age
8	169m NE	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
11	172m NE	UH-SDST	Upper Haslingden Flags - Sandstone	Yeadonian Sub-age
12	186m W	UH-SDST	Upper Haslingden Flags - Sandstone	Yeadonian Sub-age
13	205m W	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
14	211m N	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
15	218m NE	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
16	238m NE	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
17	264m W	UH-SDST	Upper Haslingden Flags - Sandstone	Yeadonian Sub-age
18	275m W	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
19	298m W	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
20	324m NE	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
21	325m S	UH-SDST	Upper Haslingden Flags - Sandstone	Yeadonian Sub-age
23	337m NE	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
24	367m SE	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
25	374m SE	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
27	435m NW	UH-SDST	Upper Haslingden Flags - Sandstone	Yeadonian Sub-age
28	463m SE	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
30	483m SE	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
32	486m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.



14.6 Bedrock faults and other linear features (10k)

Records within 500m

7

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.

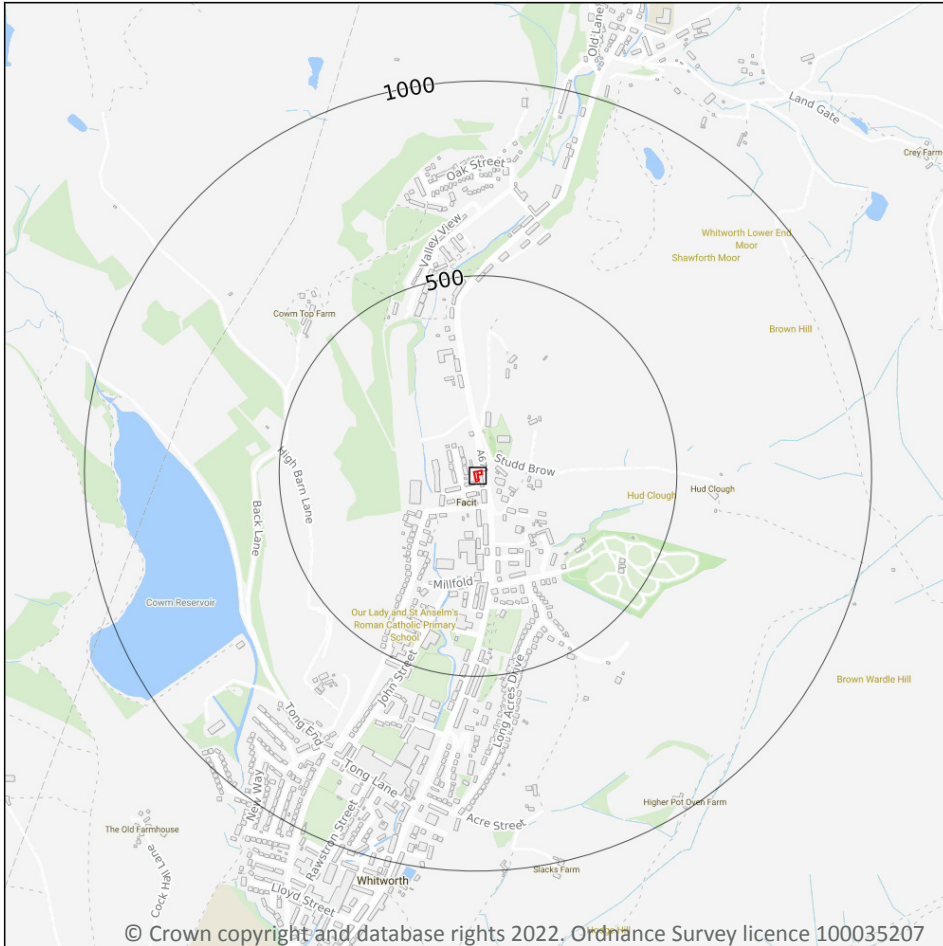
Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 82**

ID	Location	Category	Description
6	166m SW	FAULT	Normal fault, inferred
9	171m NE	ROCK	Coal seam, inferred
10	172m NE	FAULT	Normal fault, inferred
22	337m NE	ROCK	Coal seam, inferred coincident with bedrock geology boundary
26	374m SE	ROCK	Coal seam, inferred coincident with bedrock geology boundary
29	474m SE	ROCK	Coal seam, inferred
31	486m SE	FOSSIL_HORIZON	Fossil horizon, marine band coincident with bedrock geology boundary

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

Geographical map tile

15.1 50k Availability

Records within 500m

1

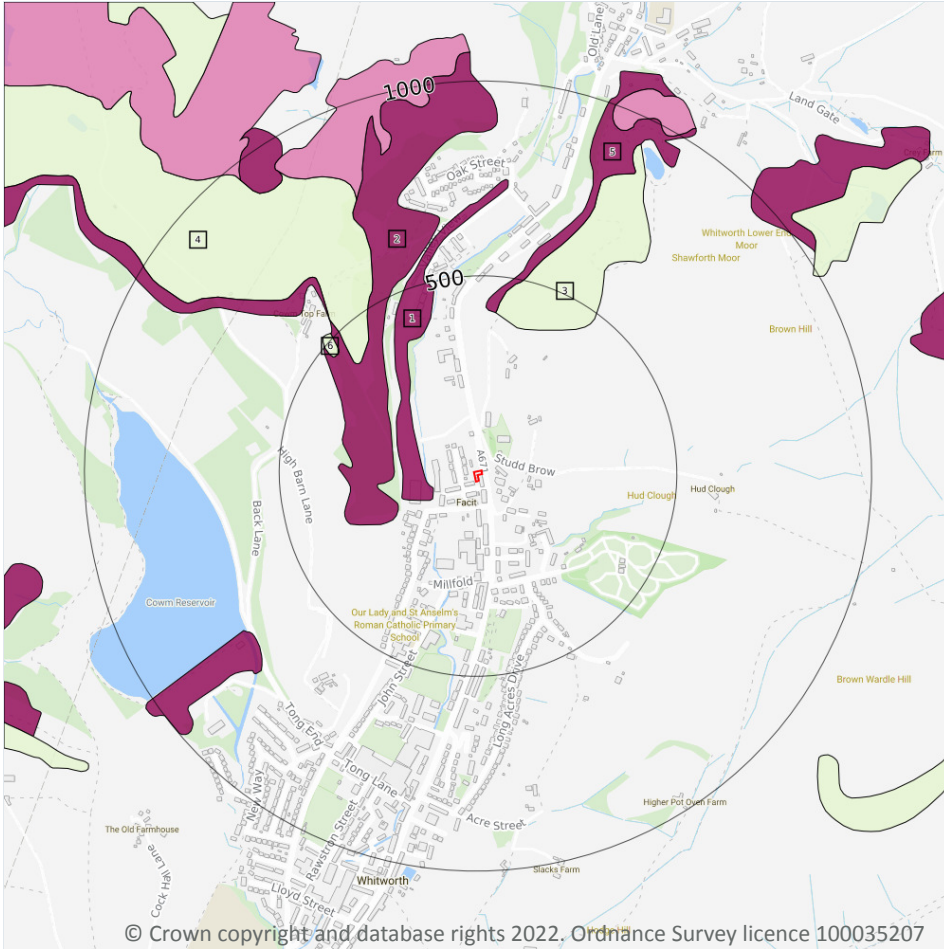
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

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

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	Full	EW076_rochdale_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

6

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 86**

ID	Location	LEX Code	Description	Rock description
1	110m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	204m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	377m N	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
4	406m NW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

ID	Location	LEX Code	Description	Rock description
5	407m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
6	463m NW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

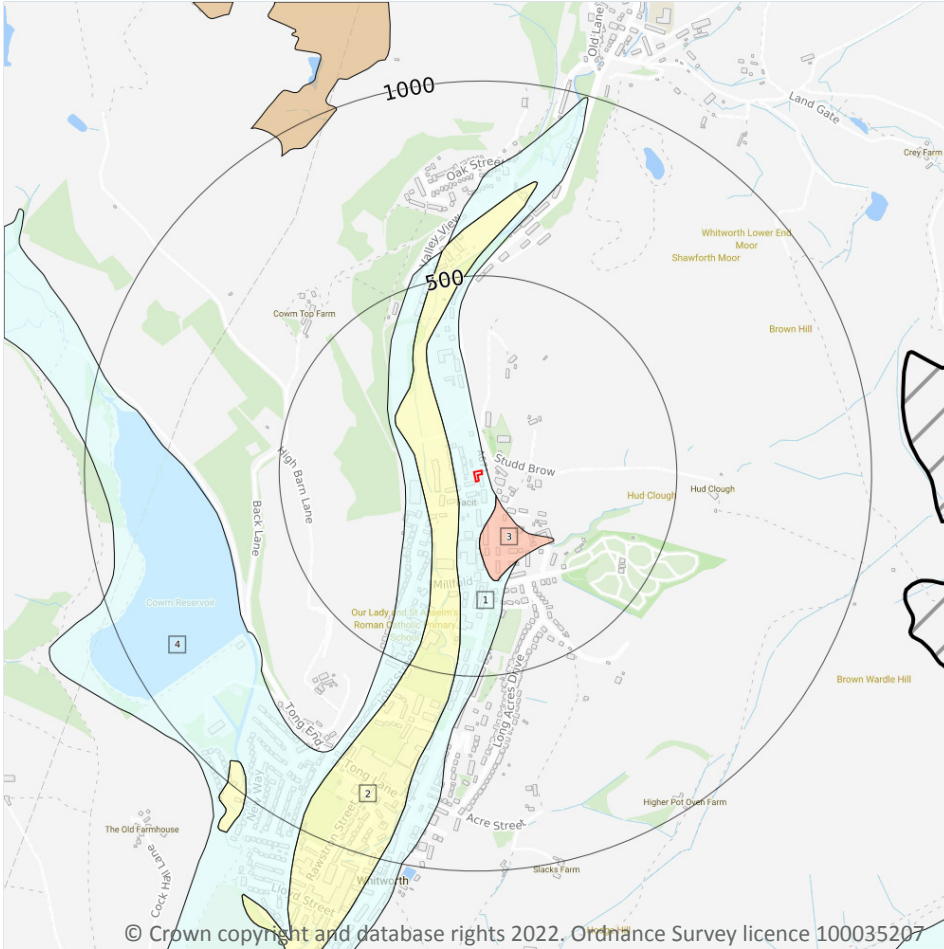
0

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



— Site Outline
Search buffers in metres (m)

▨ Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

4

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 88**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON
2	51m W	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	59m SE	ALF-XSV	ALLUVIAL FAN DEPOSITS	SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
4	138m W	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m **1**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m **0**

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

This data is sourced from the British Geological Survey.

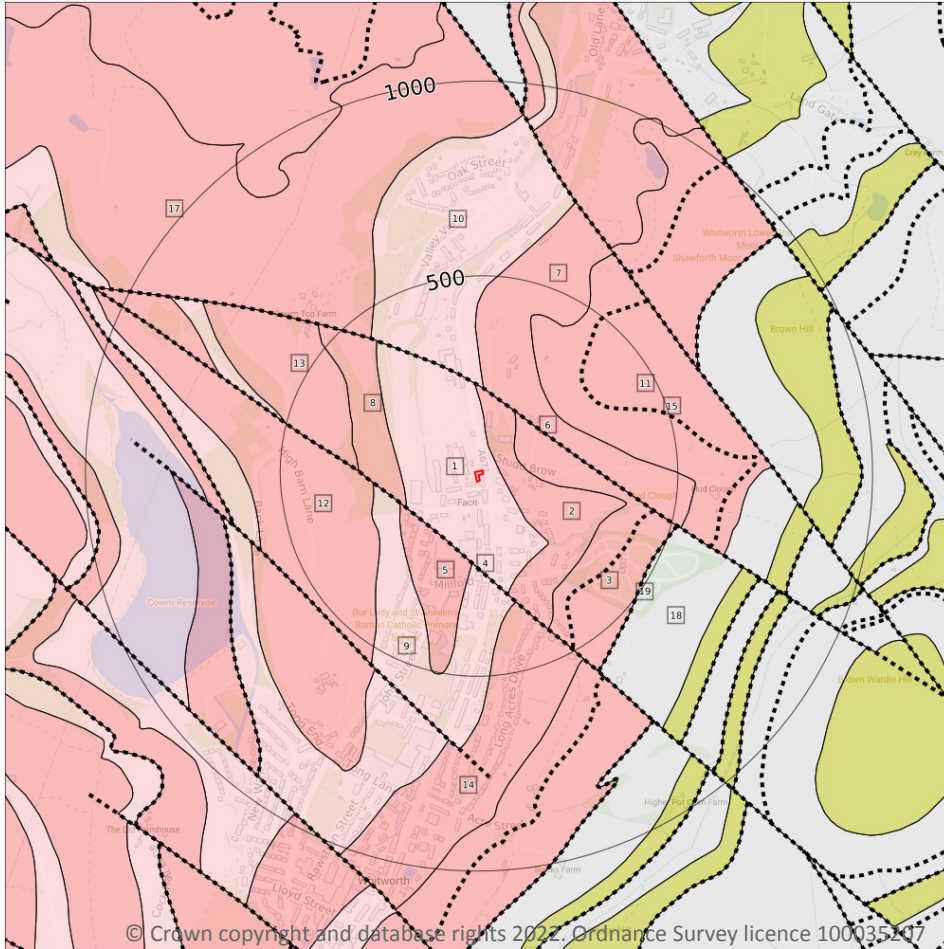
15.7 Landslip permeability (50k)

Records within 50m **0**

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

15.8 Bedrock geology (50k)

Records within 500m

14

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 90**

ID	Location	LEX Code	Description	Rock age
1	On site	ROSSE-MDSI	ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
2	39m NE	UH-SDST	UPPER HASLINGDEN FLAGS - SANDSTONE	NAMURIAN
3	93m E	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN

ID	Location	LEX Code	Description	Rock age
5	166m SW	LH-SDST	LOWER HASLINGDEN FLAGS - SANDSTONE	NAMURIAN
7	172m NE	UH-SDST	UPPER HASLINGDEN FLAGS - SANDSTONE	NAMURIAN
8	186m W	UH-SDST	UPPER HASLINGDEN FLAGS - SANDSTONE	NAMURIAN
9	205m W	ROSSE-MDSI	ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
10	211m N	ROSSE-MDSI	ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
11	238m NE	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN
12	264m W	UH-SDST	UPPER HASLINGDEN FLAGS - SANDSTONE	NAMURIAN
13	298m W	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN
14	325m S	UH-SDST	UPPER HASLINGDEN FLAGS - SANDSTONE	NAMURIAN
17	435m NW	UH-SDST	UPPER HASLINGDEN FLAGS - SANDSTONE	NAMURIAN
18	486m SE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2
---------------------------	----------

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	Low	Low
39m SE	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	5
----------------------------	----------

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 90**

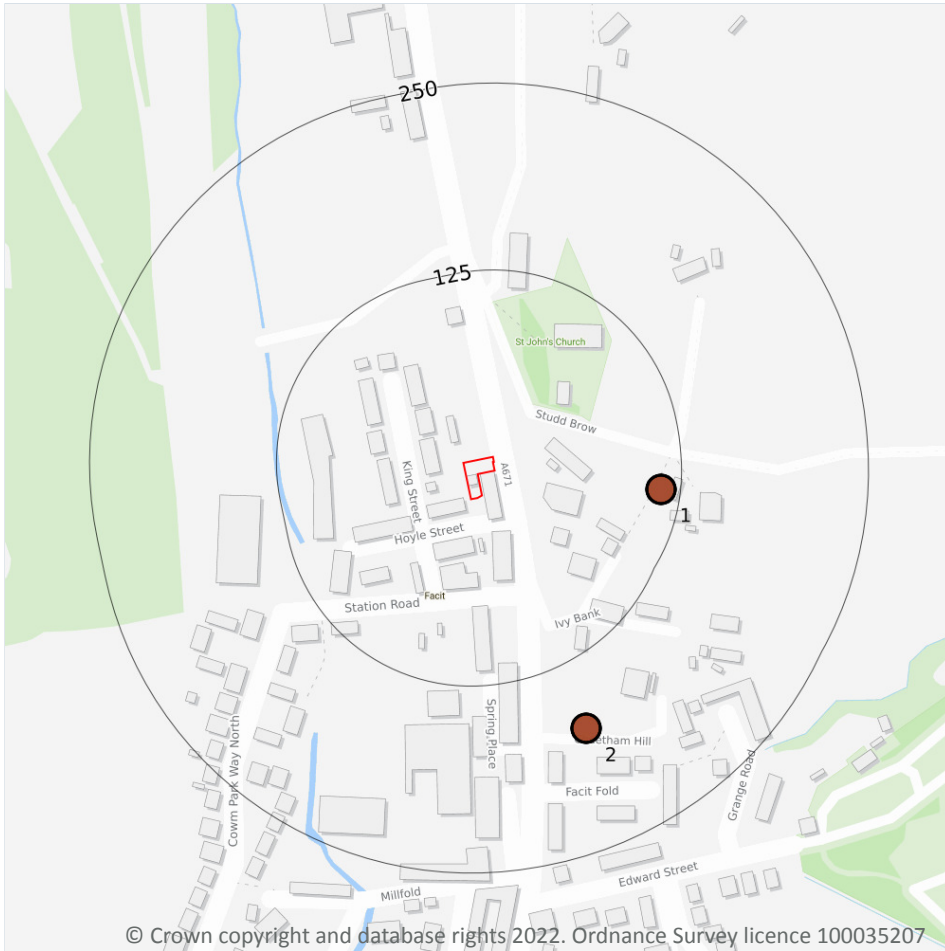


ID	Location	Category	Description
4	166m SW	FAULT	Fault, inferred
6	172m NE	FAULT	Fault, inferred
15	337m NE	ROCK	Coal seam, inferred
16	375m SE	ROCK	Coal seam, inferred
19	486m SE	FOSSIL_HORIZON	Marine band

This data is sourced from the British Geological Survey.



16 Boreholes



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16.1 BGS Boreholes

Records within 250m

2

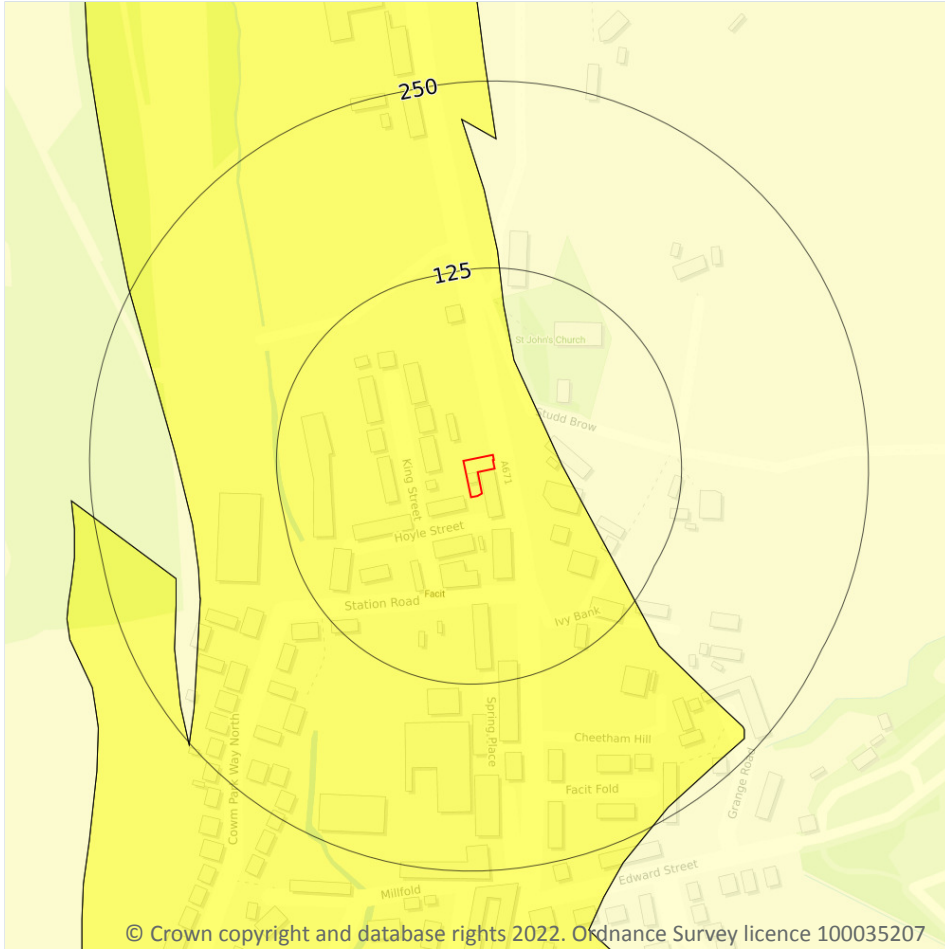
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several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

Features are displayed on the Boreholes map on **page 93**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	112m E	388930 419210	JAMES HOLT JACKSON	-1.0	N	29669
2	170m SE	388880 419050	JAMES Q. BROWN	-1.0	N	29661

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

2

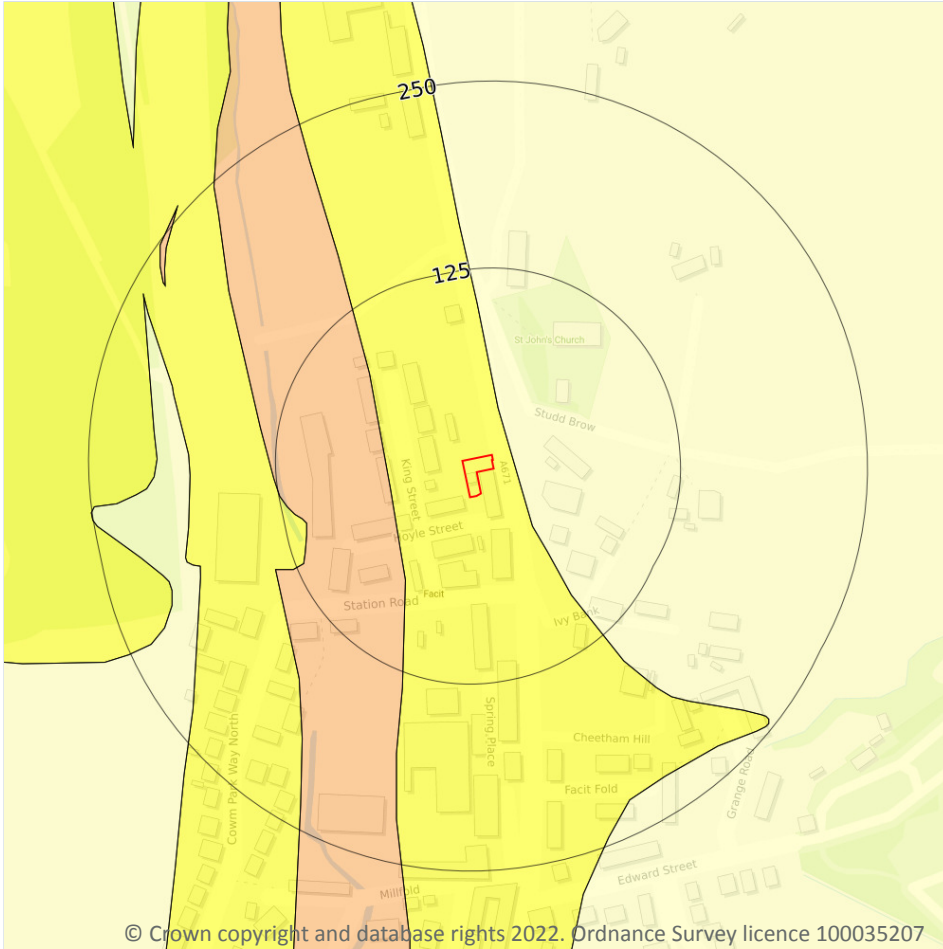
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 94**

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.
39m NE	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

2

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 95**

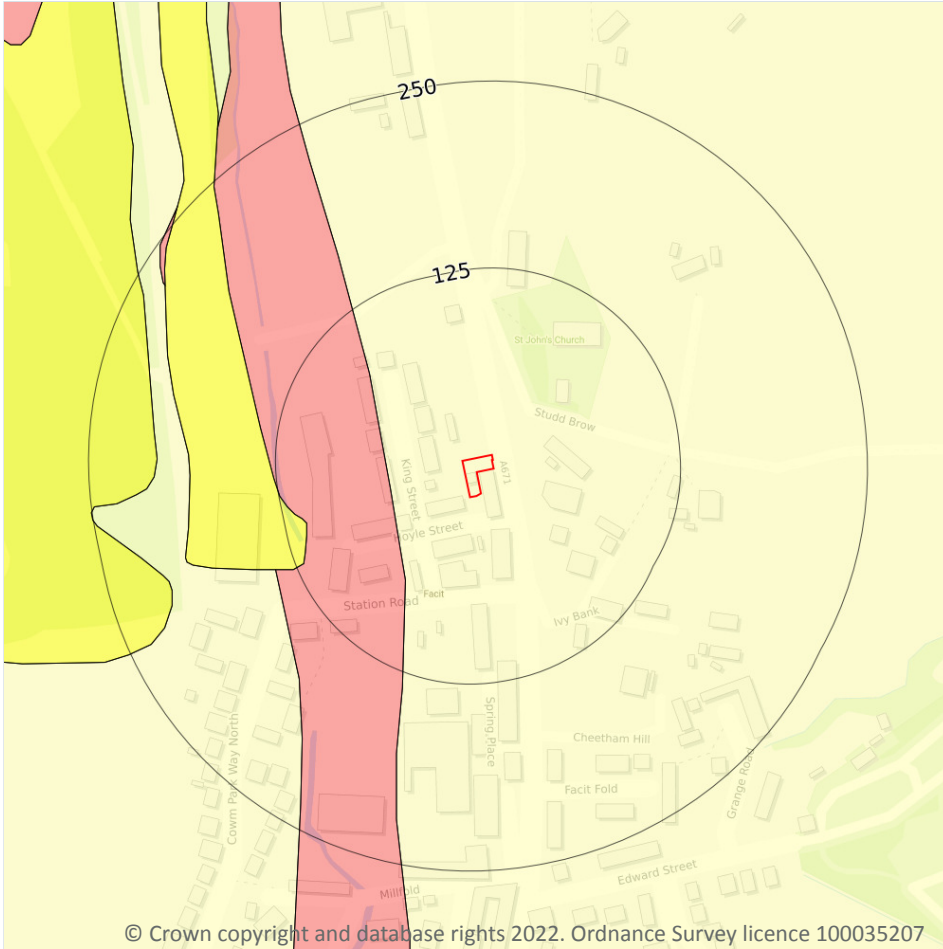
Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Location	Hazard rating	Details
13m E	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

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17.3 Compressible deposits

Records within 50m

1

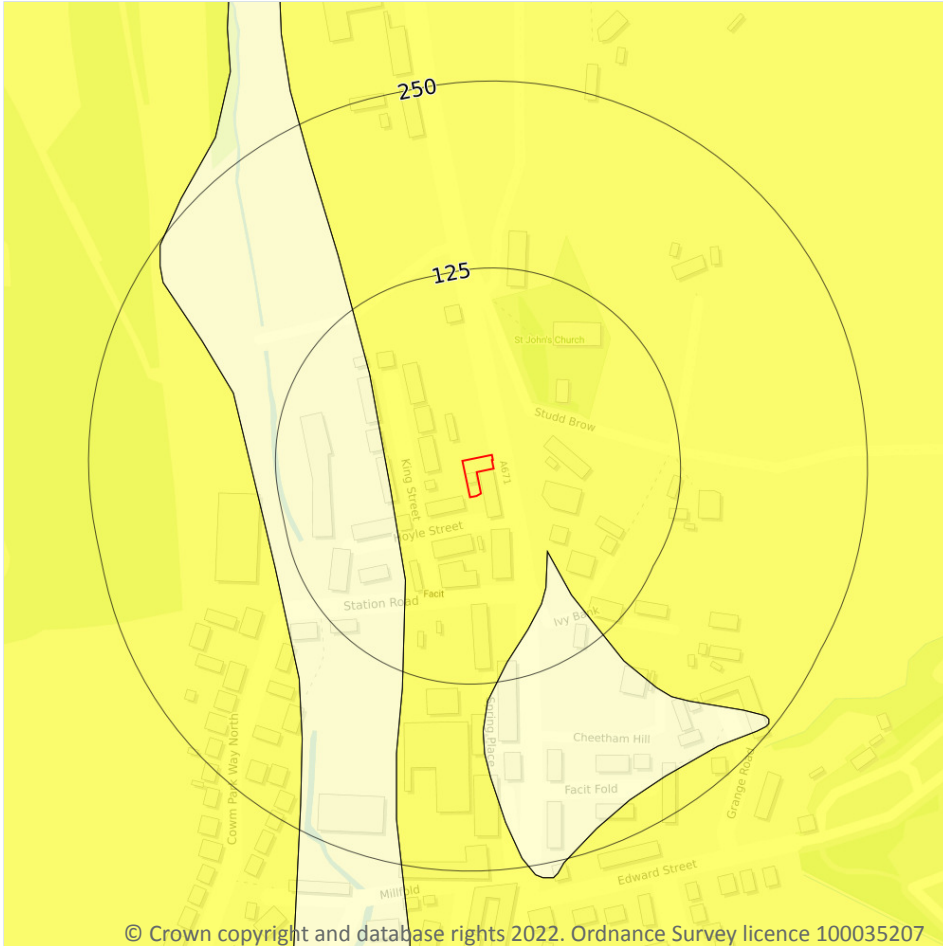
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 97**

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

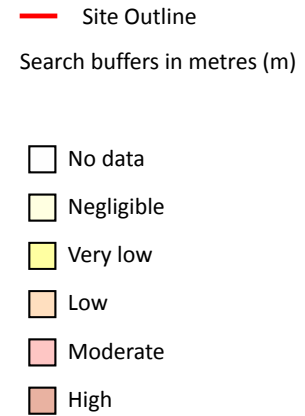
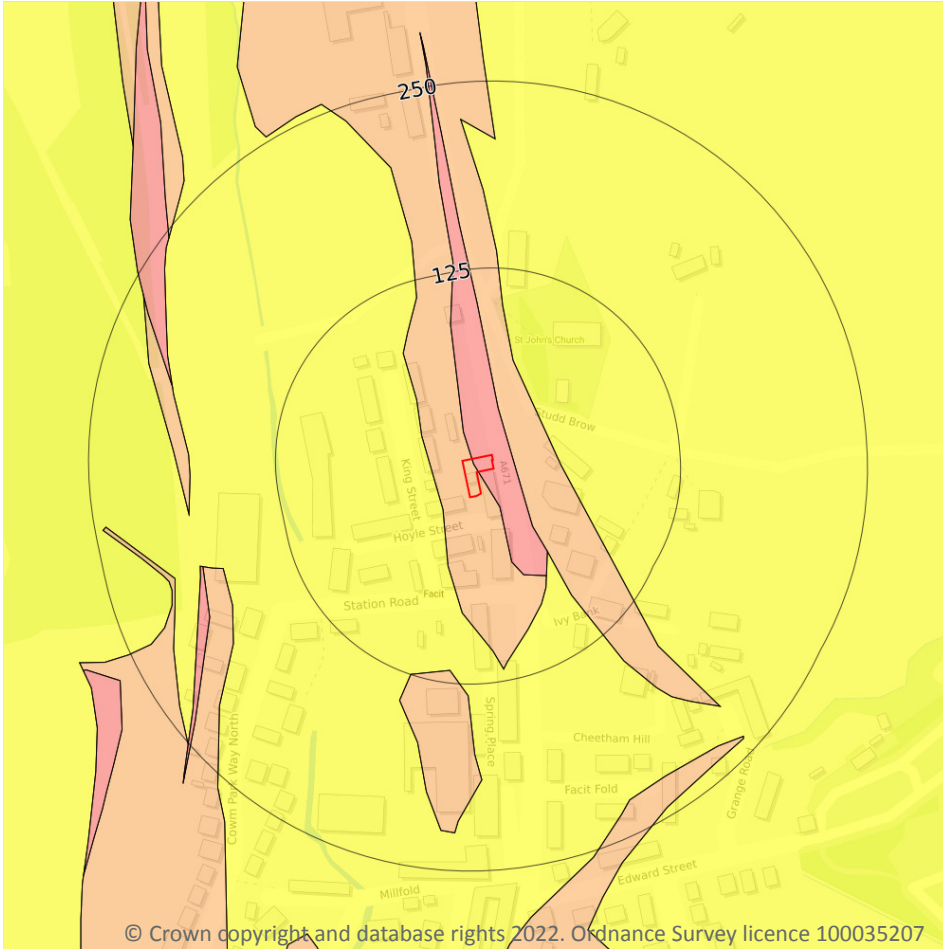
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 98**

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

3

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

Features are displayed on the Natural ground subsidence - Landslides map on **page 99**

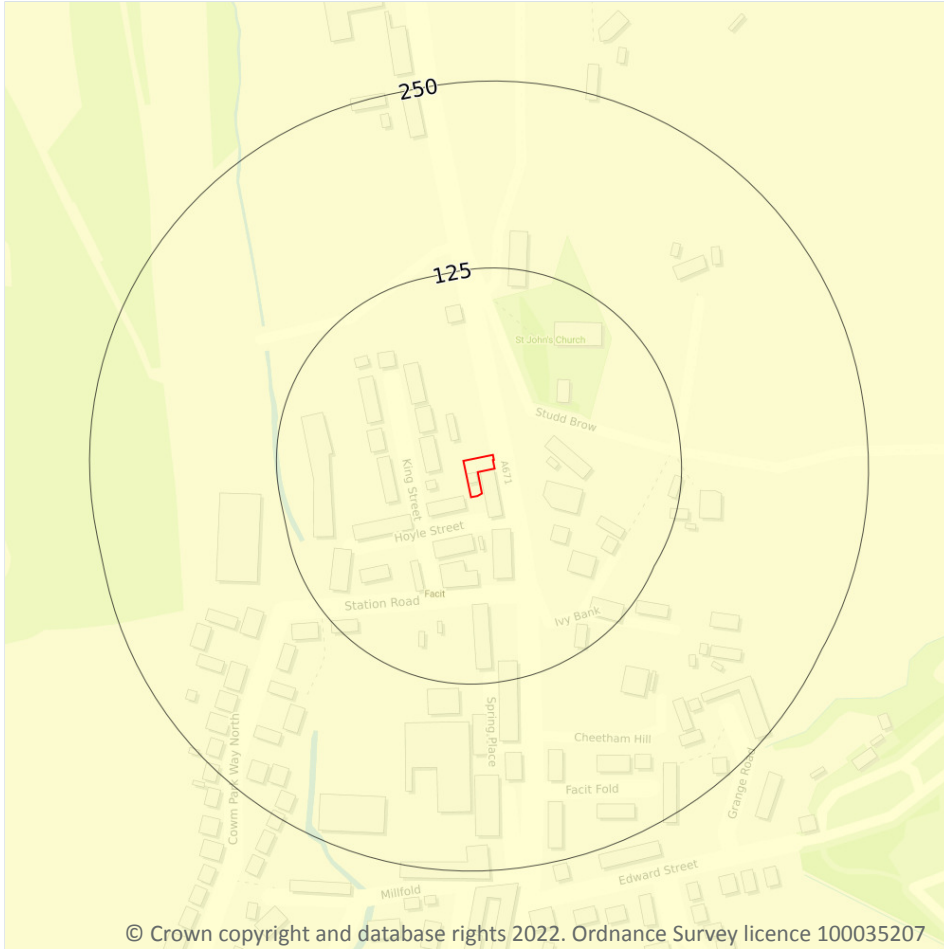
Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

Location	Hazard rating	Details
On site	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
20m W	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.

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.

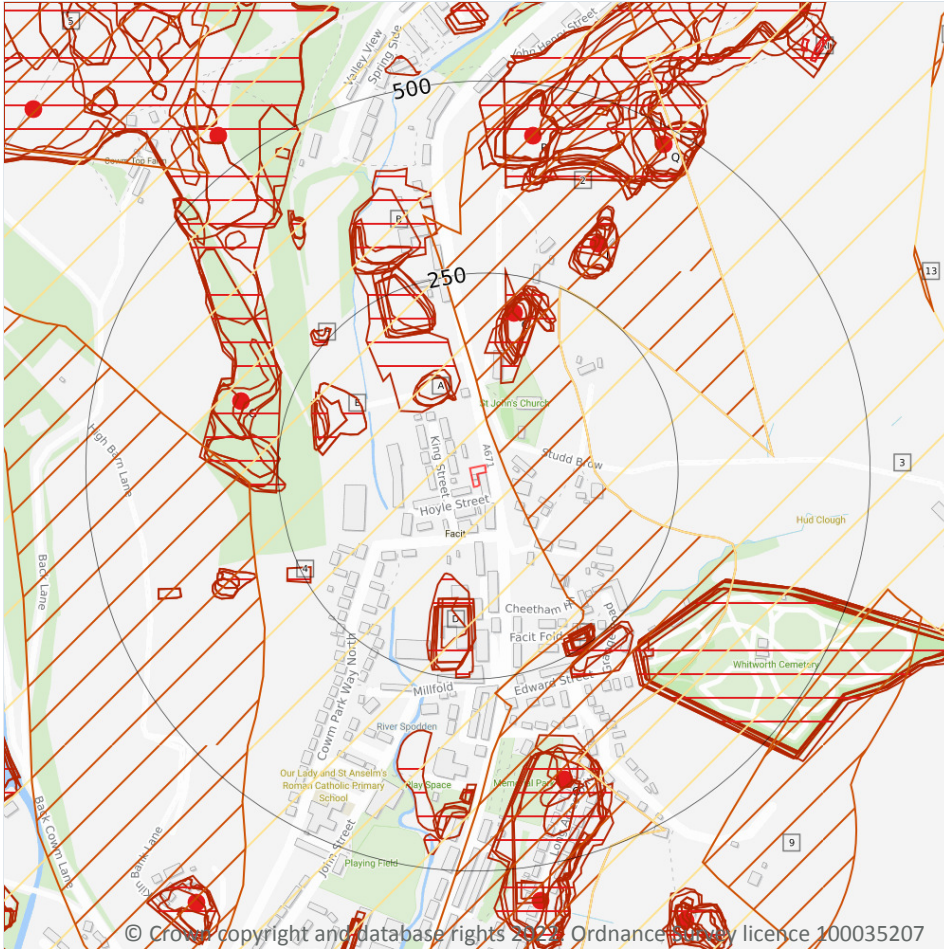
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 101**

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 Stantec UK Ltd.

18.2 BritPits

Records within 500m

6

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 103**

ID	Location	Details	Description
C	201m N	Name: PISGAH FARM Address: WHITWORTH, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
G	310m W	Name: FACIT Address: WHITWORTH, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
L	323m NE	Name: LEAVENGREAVE Address: WHITWORTH, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
O	397m S	Name: LONG ACRES QUARRY Address: WHITWORTH, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
R	432m N	Name: MOSS Address: MILLGATE, WHITWORTH, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority



ID	Location	Details	Description
Q	478m NE	Name: Moss Address: Millgate, WHITWORTH, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	47
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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 103**

ID	Location	Land Use	Year of mapping	Mapping scale
A	91m N	Refuse Heap	1938	1:10560
A	92m N	Refuse Heap	1928	1:10560
B	94m NW	Unspecified Disused Tip	1979	1:10000
A	101m N	Refuse Heap	1949	1:10560
C	109m N	Unspecified Quarry	1891	1:10560
D	118m S	Pond	1851	1:10560
C	135m N	Unspecified Old Quarry	1909	1:10560
C	136m N	Unspecified Ground Workings	1938	1:10560
C	137m N	Unspecified Heaps	1928	1:10560
E	145m W	Unspecified Ground Workings	1967	1:10560
E	145m W	Unspecified Ground Workings	1979	1:10000
D	146m S	Pond	1967	1:10560
D	146m S	Reservoir	1949	1:10560
D	146m S	Pond	1979	1:10000
C	147m N	Unspecified Old Quarry	1938	1:10560
C	149m N	Unspecified Old Quarry	1912	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
C	150m N	Unspecified Heaps	1949	1:10560
D	154m S	Reservoir	1938	1:10560
D	156m S	Reservoir	1928	1:10560
D	156m S	Reservoir	1909	1:10560
B	185m N	Water Body	1928	1:10560
B	185m N	Old Reservoir	1909	1:10560
B	187m N	Reservoir	1891	1:10560
B	189m N	Pond	1851	1:10560
E	190m W	Ponds	1938	1:10560
E	191m W	Ponds	1949	1:10560
C	192m NE	Unspecified Pit	1928	1:10560
E	193m W	Ponds	1909	1:10560
B	194m N	Pond	1967	1:10560
C	194m N	Unspecified Heap	1967	1:10560
C	194m N	Unspecified Heap	1979	1:10000
C	203m NE	Unspecified Pit	1949	1:10560
C	214m N	Unspecified Quarry	1892	1:10560
F	227m SE	Pond	1967	1:10560
F	227m SE	Reservoir	1949	1:10560
F	229m SE	Pond	1891	1:10560
F	229m SE	Reservoir	1938	1:10560
F	231m SE	Reservoir	1912	1:10560
F	233m SE	Reservoir	1928	1:10560
F	233m SE	Pond	1909	1:10560
F	235m SE	Reservoir	1938	1:10560
F	235m SE	Pond	1979	1:10000
4	237m SW	Cuttings	1891	1:10560
G	241m W	Unspecified Quarry	1909	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
H	246m NW	Unspecified Heap	1909	1:10560
G	248m W	Unspecified Heap	1967	1:10560
G	248m W	Unspecified Heap	1949	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

7

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 103**

ID	Location	Land Use	Year of mapping	Mapping scale
AI	677m NE	Unspecified Drifts	1938	1:10560
AI	679m NE	Unspecified Drifts	1928	1:10560
AI	687m NE	Unspecified Drifts	1949	1:10560
-	867m SW	Valve Shaft	1949	1:10560
-	872m SW	Valve Shaft	1938	1:10560
-	876m SW	Valve Shaft	1928	1:10560
-	876m SW	Valve Shaft	1909	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

15

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 103**

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
2	22m E	Whitworth	Sandstone - Flagstones\Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
3	138m E	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
5	288m W	Whitworth	Sandstone - Flagstones\Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
9	503m SE	Whitworth	Vein Mineral/Flagstone	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
13	615m E	Whitworth	Vein Mineral/Flagstone	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
14	765m NE	Whitworth	Vein Mineral/Flagstone	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
-	768m N	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered



ID	Location	Name	Commodity	Class	Likelihood
-	778m N	Whitworth	Sandstone - Flagstones\Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
-	802m N	Whitworth	Sandstone - Flagstones\Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
-	858m NE	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
-	938m NW	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
-	948m NW	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
-	977m NE	Whitworth	Vein Mineral/Flagstone	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
-	995m NE	Whitworth	Vein Mineral/Flagstone	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.



18.8 JPB mining areas

Records on site 0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site 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 Groundsure.



18.13 Clay mining

Records on site

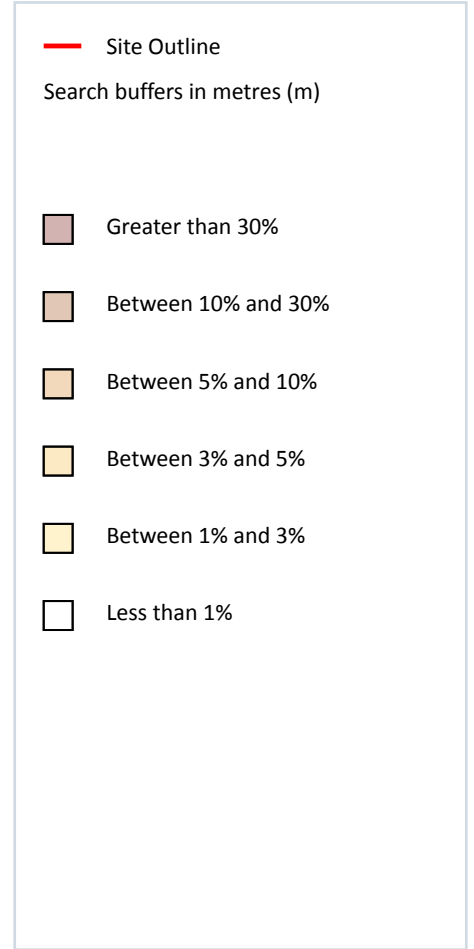
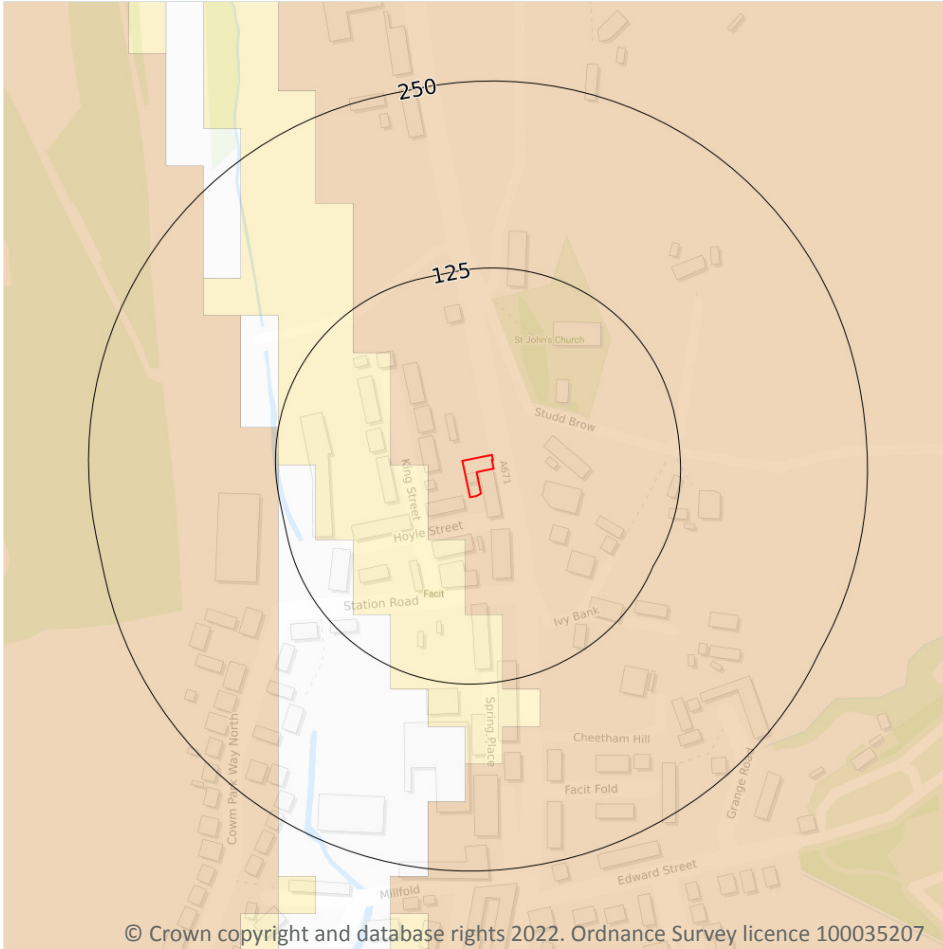
0

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 112**

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 5% and 10%	Basic

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 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
2m SW	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
22m NE	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 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 km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

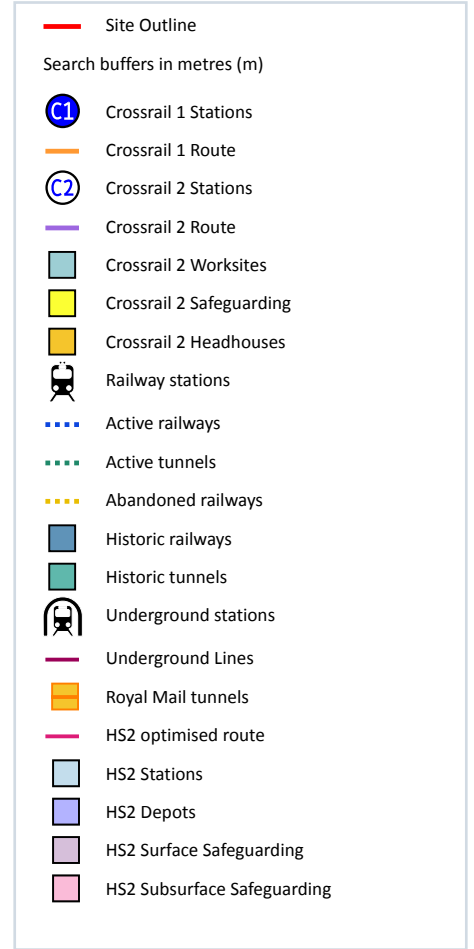
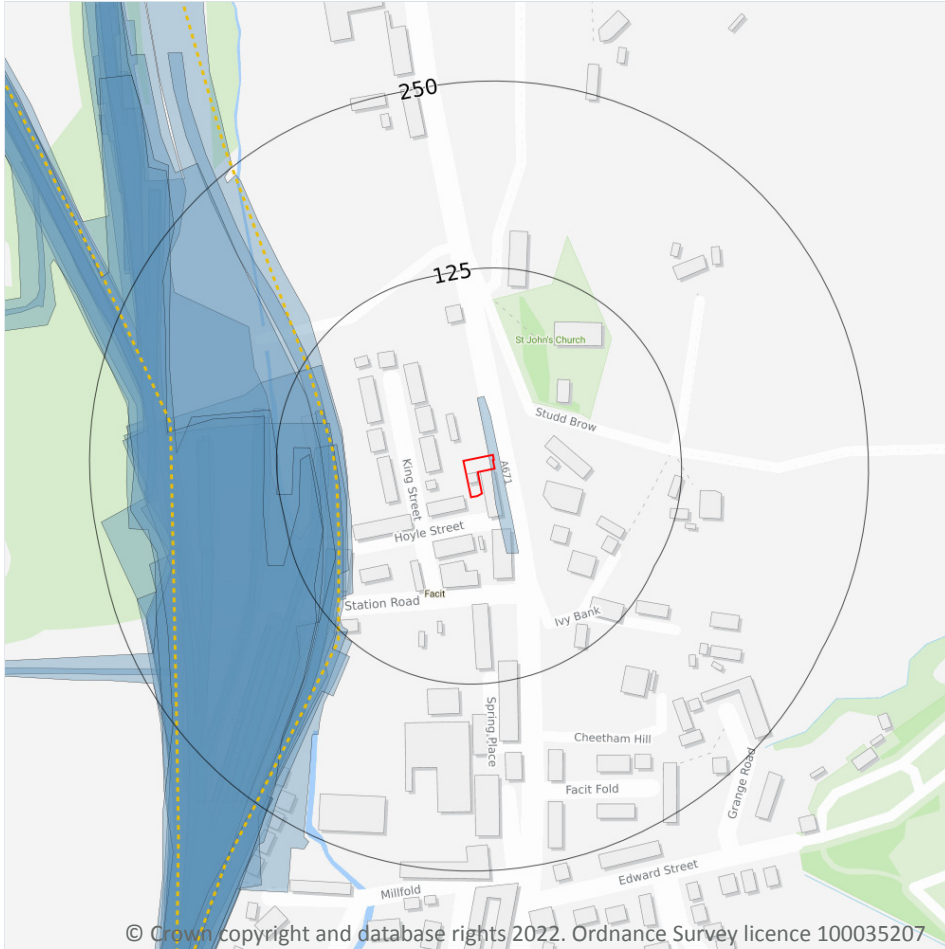
0

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

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



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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

25

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

Features are displayed on the Railway infrastructure and projects map on **page 114**

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1891	2500
78m W	Mineral Railway	1910	-
79m W	Railway Sidings	1967	10560
82m W	Railway Sidings	1949	10560
84m W	Mineral Railway Sidings	1938	10560
86m W	Railway Sidings	1987	2500
90m W	Railway Sidings	1962	2500
94m W	Railway Sidings	1891	10560
97m W	Railway Sidings	1891	2500
97m W	Railway Sidings	1910	2500
97m W	Railway Sidings	1929	2500
99m W	Mineral Railway Sidings	1928	10560
101m W	Mineral Railway Sidings	1909	10560
129m W	Railway Sidings	1962	2500
134m W	Railway Sidings	1891	2500
134m W	Railway Sidings	1910	2500
134m W	Railway Sidings	1929	2500



Location	Land Use	Year of mapping	Mapping scale
134m W	Railway Sidings	1987	2500
167m W	Railway Sidings	1891	2500
170m W	Railway Sidings	1910	2500
170m W	Railway Sidings	1929	2500
195m W	Mineral Railway Sidings	1910	2500
205m W	Tramways Sidings	1891	2500
206m W	Mineral Railway Sidings	1929	2500
209m W	Tramway Sidings	1891	2500

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

2

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

Features are displayed on the Railway infrastructure and projects map on **page 114**

Location	Description
86m W	Abandoned
195m W	Abandoned

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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