

THE GATEHOUSE, WOODHILL ROAD, BURY, BL8 1BN

Order Details

Date: 05/08/2022
Your ref: sa_5013
Our Ref: GS-2431-8962375

Site Details

Location: 379984 411853
Area: 0.19 ha
Authority: [Bury Metropolitan 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
<u>14</u>	<u>1.1</u>	<u>Historical industrial land uses</u>	0	1	19	70	-
<u>18</u>	<u>1.2</u>	<u>Historical tanks</u>	0	0	0	16	-
<u>19</u>	<u>1.3</u>	<u>Historical energy features</u>	0	0	2	13	-
20	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
<u>21</u>	<u>2.1</u>	<u>Historical industrial land uses</u>	0	1	25	87	-
<u>26</u>	<u>2.2</u>	<u>Historical tanks</u>	0	0	0	25	-
<u>27</u>	<u>2.3</u>	<u>Historical energy features</u>	0	0	4	20	-
28	2.4	Historical petrol stations	0	0	0	0	-
28	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
29	3.1	Active or recent landfill	0	0	0	0	-
29	3.2	Historical landfill (BGS records)	0	0	0	0	-
30	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
<u>30</u>	<u>3.4</u>	<u>Historical landfill (EA/NRW records)</u>	0	0	1	0	-
<u>30</u>	<u>3.5</u>	<u>Historical waste sites</u>	0	0	0	13	-
<u>32</u>	<u>3.6</u>	<u>Licensed waste sites</u>	0	0	0	18	-
<u>38</u>	<u>3.7</u>	<u>Waste exemptions</u>	0	0	6	3	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>40</u>	<u>4.1</u>	<u>Recent industrial land uses</u>	0	0	5	-	-
<u>41</u>	<u>4.2</u>	<u>Current or recent petrol stations</u>	0	0	0	1	-
41	4.3	Electricity cables	0	0	0	0	-
41	4.4	Gas pipelines	0	0	0	0	-
42	4.5	Sites determined as Contaminated Land	0	0	0	0	-



42	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
42	4.7	Regulated explosive sites	0	0	0	0	-
42	4.8	Hazardous substance storage/usage	0	0	0	0	-
42	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
43	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	0	4	-
43	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	1	2	-
44	4.12	Radioactive Substance Authorisations	0	0	0	0	-
44	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	1	-
45	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
45	4.15	Pollutant release to public sewer	0	0	0	0	-
45	4.16	List 1 Dangerous Substances	0	0	0	0	-
45	4.17	List 2 Dangerous Substances	0	0	0	0	-
45	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	0	9	-
47	4.19	Pollution inventory substances	0	0	0	0	-
47	4.20	Pollution inventory waste transfers	0	0	0	0	-
47	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
48	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
50	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
52	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
53	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
53	5.5	Groundwater vulnerability- local information	None (within 0m)				
54	5.6	<u>Groundwater abstractions</u>	0	0	0	0	7
56	5.7	<u>Surface water abstractions</u>	0	0	0	1	17
61	5.8	Potable abstractions	0	0	0	0	0
61	5.9	Source Protection Zones	0	0	0	0	-
61	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
62	6.1	<u>Water Network (OS MasterMap)</u>	0	0	12	-	-



64	6.2	<u>Surface water features</u>	0	0	6	-	-
64	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
64	6.4	<u>WFD Surface water bodies</u>	0	0	1	-	-
65	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
66	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
66	7.2	Historical Flood Events	0	0	0	-	-
66	7.3	Flood Defences	0	0	0	-	-
67	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
67	7.5	Flood Storage Areas	0	0	0	-	-
68	7.6	Flood Zone 2	None (within 50m)				
68	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
69	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
71	9.1	<u>Groundwater flooding</u>	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
72	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
73	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
73	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
73	10.4	Special Protection Areas (SPA)	0	0	0	0	0
73	10.5	National Nature Reserves (NNR)	0	0	0	0	0
74	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	5
74	10.7	Designated Ancient Woodland	0	0	0	0	0
74	10.8	Biosphere Reserves	0	0	0	0	0
75	10.9	Forest Parks	0	0	0	0	0
75	10.10	Marine Conservation Zones	0	0	0	0	0
75	10.11	<u>Green Belt</u>	1	0	0	0	1
75	10.12	Proposed Ramsar sites	0	0	0	0	0



76	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
76	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
76	10.15	Nitrate Sensitive Areas	0	0	0	0	0
76	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
77	<u>10.17</u>	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
78	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
79	11.1	World Heritage Sites	0	0	0	-	-
80	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
80	11.3	National Parks	0	0	0	-	-
80	<u>11.4</u>	<u>Listed Buildings</u>	0	0	1	-	-
81	11.5	Conservation Areas	0	0	0	-	-
81	11.6	Scheduled Ancient Monuments	0	0	0	-	-
81	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
82	<u>12.1</u>	<u>Agricultural Land Classification</u>	Grade 4 (within 250m)				
83	12.2	Open Access Land	0	0	0	-	-
83	12.3	Tree Felling Licences	0	0	0	-	-
83	12.4	Environmental Stewardship Schemes	0	0	0	-	-
84	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
85	<u>13.1</u>	<u>Priority Habitat Inventory</u>	0	0	13	-	-
86	13.2	Habitat Networks	0	0	0	-	-
86	13.3	Open Mosaic Habitat	0	0	0	-	-
86	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
88	<u>14.1</u>	<u>10k Availability</u>	Identified (within 500m)				
89	<u>14.2</u>	<u>Artificial and made ground (10k)</u>	0	1	4	5	-
91	<u>14.3</u>	<u>Superficial geology (10k)</u>	2	0	5	7	-



92	14.4	Landslip (10k)	0	0	0	0	-
93	14.5	<u>Bedrock geology (10k)</u>	3	1	2	7	-
94	14.6	<u>Bedrock faults and other linear features (10k)</u>	1	0	3	3	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
96	15.1	<u>50k Availability</u>	Identified (within 500m)				
97	15.2	<u>Artificial and made ground (50k)</u>	0	0	1	0	-
98	15.3	Artificial ground permeability (50k)	0	0	-	-	-
99	15.4	<u>Superficial geology (50k)</u>	1	0	4	7	-
100	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
100	15.6	Landslip (50k)	0	0	0	0	-
101	15.7	Landslip permeability (50k)	None (within 50m)				
102	15.8	<u>Bedrock geology (50k)</u>	2	0	1	4	-
103	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
103	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	1	1	3	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
105	16.1	<u>BGS Boreholes</u>	0	0	3	-	-
Page	Section	Natural ground subsidence					
107	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
108	17.2	<u>Running sands</u>	Very low (within 50m)				
109	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
110	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
111	17.5	<u>Landslides</u>	Very low (within 50m)				
112	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
114	18.1	Natural cavities	0	0	0	0	-
115	18.2	<u>BritPits</u>	0	0	0	3	-
115	18.3	<u>Surface ground workings</u>	0	0	33	-	-
117	18.4	Underground workings	0	0	0	0	0
117	18.5	Historical Mineral Planning Areas	0	0	0	0	-



117	18.6	Non-coal mining	0	0	0	0	0
117	18.7	Mining cavities	0	0	0	0	0
118	18.8	JPB mining areas	None (within 0m)				
118	18.9	<u>Coal mining</u>	Identified (within 0m)				
118	18.10	Brine areas	None (within 0m)				
118	18.11	Gypsum areas	None (within 0m)				
118	18.12	Tin mining	None (within 0m)				
119	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
120	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
121	20.1	<u>BGS Estimated Background Soil Chemistry</u>	3	0	-	-	-
121	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
121	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
122	21.1	Underground railways (London)	0	0	0	-	-
122	21.2	Underground railways (Non-London)	0	0	0	-	-
123	21.3	Railway tunnels	0	0	0	-	-
123	21.4	<u>Historical railway and tunnel features</u>	0	0	4	-	-
123	21.5	Royal Mail tunnels	0	0	0	-	-
124	21.6	<u>Historical railways</u>	0	0	4	-	-
124	21.7	Railways	0	0	0	-	-
124	21.8	Crossrail 1	0	0	0	0	-
124	21.9	Crossrail 2	0	0	0	0	-
125	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 23/05/2019

Site Area: 0.19ha



Recent site history - 2012 aerial photograph

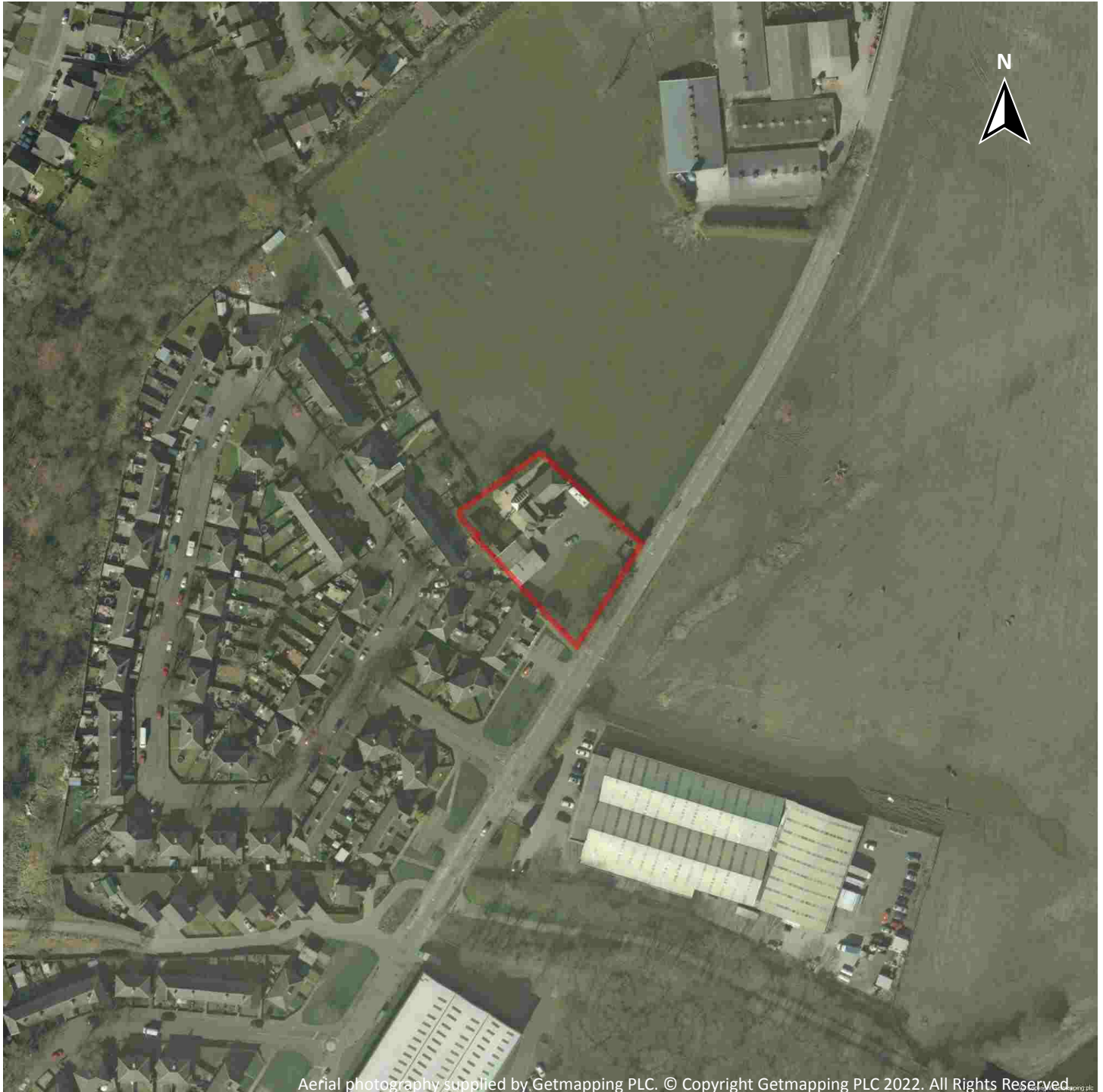


Capture Date: 26/03/2012

Site Area: 0.19ha



Recent site history - 2011 aerial photograph



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Capture Date: 02/05/2011

Site Area: 0.19ha



Recent site history - 2001 aerial photograph



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Capture Date: 07/05/2001

Site Area: 0.19ha



Recent site history - 2000 aerial photograph



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Capture Date: 27/06/2000

Site Area: 0.19ha



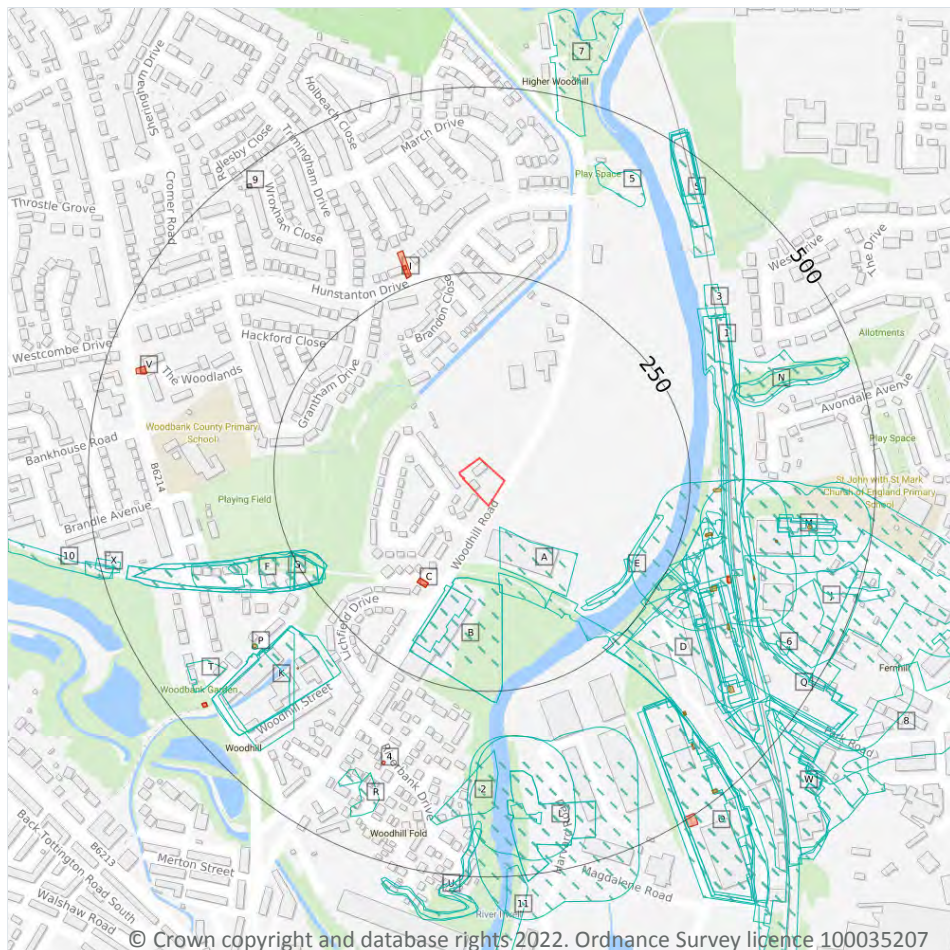
OS MasterMap site plan



Site Area: 0.19ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

1.1 Historical industrial land uses

Records within 500m

90

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

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

ID	Location	Land use	Dates present	Group ID
A	32m SE	Unspecified Works	1983	678781



ID	Location	Land use	Dates present	Group ID
A	91m S	Unspecified Ground Workings	1983	648114
B	101m S	Unspecified Works	1969 - 1980	702595
B	101m S	Unspecified Works	1956	720987
B	121m SW	Unspecified Works	1928 - 1938	748315
D	144m SE	Railway Sidings	1938	752531
E	183m SE	Unspecified Ground Workings	1967 - 1983	765085
E	186m SE	Unspecified Ground Workings	1956	772191
D	201m SE	Corporation Yard	1938	722801
F	217m SW	Cuttings	1974	730212
F	217m SW	Cuttings	1980	770816
G	219m SW	Cuttings	1956	702067
G	223m SW	Cuttings	1908	700876
G	223m SW	Cuttings	1928	720143
F	229m SW	Cuttings	1891	728877
G	229m SW	Cuttings	1938	750953
D	241m SE	Railway Sidings	1891	745839
D	248m SE	Unspecified Heap	1938	650910
F	248m SW	Cuttings	1909 - 1928	778833
D	249m SE	Sandstone Quarry	1851	686661
D	250m SE	Chemical Works	1956	779117
H	261m SE	Railway Sidings	1956 - 1967	763924
H	262m SE	Railway Sidings	1908 - 1928	701580
D	263m SE	Unspecified Works	1983	678780
D	263m SE	Unspecified Ground Workings	1891 - 1908	736708
D	264m E	Unspecified Heap	1956	650911
J	269m E	Corporation Yard	1908 - 1928	720698
D	275m E	Unspecified Pit	1956	690879
D	284m SE	Chemical Works	1938	762887



ID	Location	Land use	Dates present	Group ID
K	289m SW	Unspecified Mills	1938 - 1956	717142
D	295m E	Railway Sidings	1956	721952
D	301m SE	Unspecified Works	1967	678782
K	301m SW	Unspecified Works	1969 - 1980	745872
D	302m SE	Chemical Works	1908 - 1928	716262
D	308m SE	Iron Foundry	1891	683054
K	309m SW	Unspecified Mills	1891	770924
L	311m S	Bleach Works	1938	720623
L	311m S	Bleach Works	1908 - 1928	704578
F	312m SW	Unspecified Pit	1938	690878
M	320m E	Refuse Destructor	1928	763903
F	321m SW	Cuttings	1956	748396
1	325m NE	Cuttings	1891	765748
2	330m S	Unspecified Heap	1956	650903
N	331m E	Unspecified Pit	1938	697847
N	332m E	Unspecified Ground Workings	1956	648138
N	336m E	Unspecified Pit	1967 - 1983	694394
J	339m E	Corporation Yard	1983	746321
O	342m SE	Unspecified Mill	1967	783683
O	343m SE	Unspecified Mills	1938 - 1956	756903
O	344m SE	Unspecified Mills	1928	784578
O	345m SE	Unspecified Mills	1983	787240
3	352m NE	Cuttings	1908 - 1928	758861
K	355m SW	Unspecified Mills	1928	771583
P	357m SW	Chimney	1969 - 1980	740289
L	359m S	Unspecified Commercial/Industrial	1967	643117
L	359m S	Bleach Works	1956	748474
M	370m E	Refuse Destructor	1908	766379



ID	Location	Land use	Dates present	Group ID
M	372m E	Refuse Destructor	1938	700239
M	373m E	Corporation Yard	1956	770697
Q	381m SE	Railway Sidings	1956	764721
R	393m SW	Unspecified Heap	1891	650902
D	394m SE	Unspecified Pit	1938	690876
S	395m NE	Cuttings	1851	782227
R	398m SW	Unspecified Pit	1891	690872
5	400m NE	Sandstone Quarry	1851	686672
L	404m S	Bleach Works	1891	771727
T	410m SW	Cotton Mill	1851	644093
O	410m SE	Unspecified Mills	1908	741535
J	410m E	Corporation Yard	1967	752383
M	416m E	Unspecified Tank	1928	674759
S	423m NE	Cuttings	1908 - 1928	709782
S	424m NE	Cuttings	1891	767414
U	425m S	Refuse Heap	1969	701709
6	426m SE	Unspecified Pit	1908	690875
M	429m E	Unspecified Heap	1908	650909
H	431m SE	Unspecified Pit	1891	690874
U	435m S	Refuse Heap	1974 - 1980	697473
S	439m NE	Cuttings	1956	717349
J	439m E	Unspecified Pit	1891 - 1908	757203
S	447m NE	Cuttings	1938	769154
7	454m N	Cotton Mills	1851	659322
8	459m SE	Colliery	1851	645270
W	465m SE	Railway Sidings	1956	718735
W	470m SE	Sawmill	1983	653544
X	473m W	Cuttings	1956	716932



ID	Location	Land use	Dates present	Group ID
W	480m SE	Unspecified Mill	1967	722834
X	482m W	Cuttings	1928	744741
10	484m W	Cuttings	1909	720183
11	486m S	Print Works	1851	680217
Q	489m SE	Railway Building	1956	669849

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

16

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, 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 14**

ID	Location	Land use	Dates present	Group ID
D	280m E	Tanks	1982	94865
D	281m E	Unspecified Tank	1992	82646
D	281m E	Tanks	1982 - 1992	101982
D	287m E	Unspecified Tank	1992	82645
D	312m SE	Tanks	1939	87206
K	336m SW	Unspecified Tank	1959	82647
D	357m SE	Unspecified Tank	1910 - 1939	94780
P	357m SW	Unspecified Tank	1981 - 1987	100122
D	359m E	Tanks	1910	87198
M	374m E	Unspecified Tank	1939	82644
H	382m SE	Unspecified Tank	1982	88990
H	383m SE	Unspecified Tank	1992	96026
D	404m SE	Unspecified Tank	1982 - 1992	94495



ID	Location	Land use	Dates present	Group ID
M	413m E	Unspecified Tank	1890	82637
H	421m SE	Unspecified Tank	1939	82643
O	488m SE	Unspecified Tank	1983	82642

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

15

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 14**

ID	Location	Land use	Dates present	Group ID
C	132m SW	Electricity Substation	1983	49672
C	132m SW	Electricity Substation	1981 - 1992	51959
I	261m N	Electricity Substation	1992	57669
I	262m N	Electricity Substation	1977	55791
I	273m N	Electricity Substation	1986	57277
D	326m SE	Electricity Substation	1982	59162
D	327m SE	Electricity Substation	1992	58428
4	372m S	Electricity Substation	1992	45024
V	442m W	Electricity Substation	1977	49000
V	442m W	Electricity Substation	1986 - 1992	58321
T	459m SW	Electricity Substation	1983	57336
T	459m SW	Electricity Substation	1981 - 1992	52408
9	476m NW	Electricity Substation	1977 - 1992	56024
O	488m SE	Electricity Substation	1998	45021
O	496m SE	Electricity Substation	1983 - 1998	52825



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

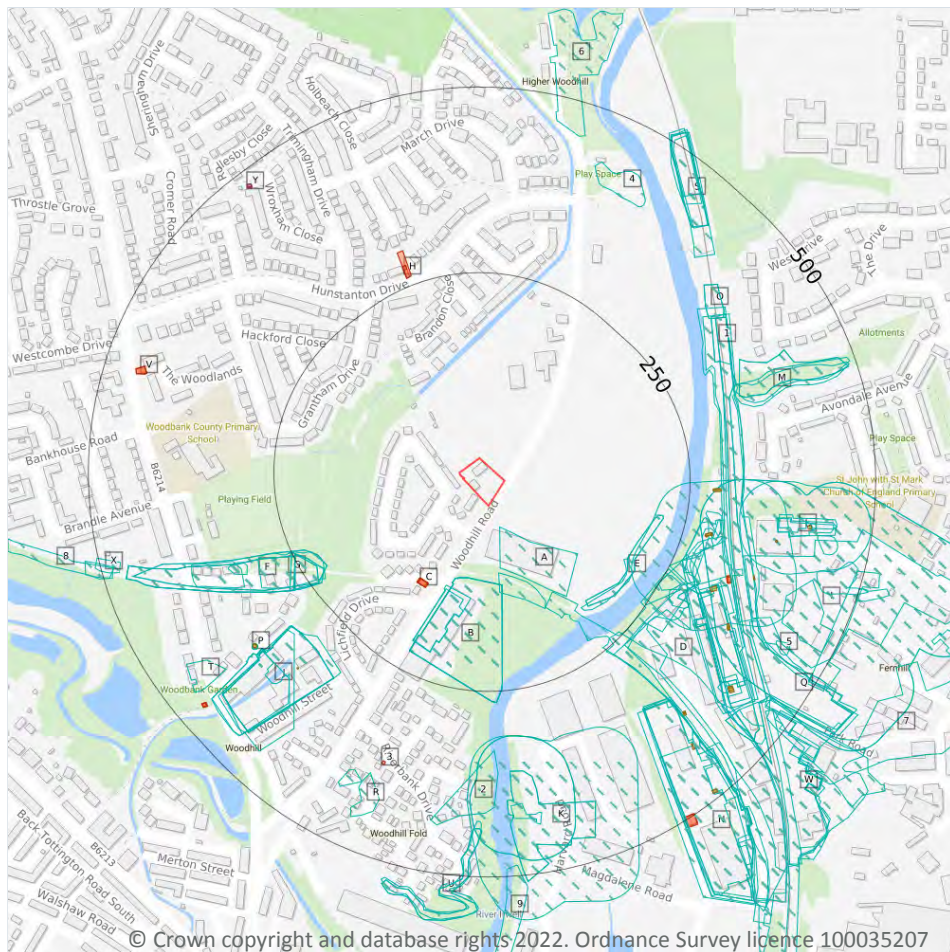
Records within 500m

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



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

2.1 Historical industrial land uses

Records within 500m

113

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
A	32m SE	Unspecified Works	1983	678781
A	91m S	Unspecified Ground Workings	1983	648114
B	101m S	Unspecified Works	1980	702595



ID	Location	Land Use	Date	Group ID
B	101m S	Unspecified Works	1969	702595
B	101m S	Unspecified Works	1974	702595
B	101m S	Unspecified Works	1956	720987
B	121m SW	Unspecified Works	1928	748315
B	126m SW	Unspecified Works	1938	748315
D	144m SE	Railway Sidings	1938	752531
E	183m SE	Unspecified Ground Workings	1983	765085
E	183m SE	Unspecified Ground Workings	1967	765085
E	186m SE	Unspecified Ground Workings	1956	772191
D	201m SE	Corporation Yard	1938	722801
F	217m SW	Cuttings	1980	770816
F	217m SW	Cuttings	1974	730212
G	219m SW	Cuttings	1956	702067
G	223m SW	Cuttings	1928	720143
G	223m SW	Cuttings	1908	700876
G	229m SW	Cuttings	1938	750953
G	229m SW	Cuttings	1891	728877
D	241m SE	Railway Sidings	1891	745839
D	248m SE	Unspecified Heap	1938	650910
F	248m SW	Cuttings	1928	778833
F	248m SW	Cuttings	1909	778833
F	248m SW	Cuttings	1891	728877
D	249m SE	Sandstone Quarry	1851	686661
D	250m SE	Chemical Works	1956	779117
D	261m SE	Railway Sidings	1967	763924
D	262m SE	Railway Sidings	1928	701580
D	263m SE	Unspecified Works	1983	678780
D	263m SE	Railway Sidings	1956	763924

ID	Location	Land Use	Date	Group ID
D	263m SE	Unspecified Ground Workings	1908	736708
D	264m E	Unspecified Heap	1956	650911
D	266m SE	Railway Sidings	1908	701580
D	267m E	Unspecified Ground Workings	1891	736708
I	269m E	Corporation Yard	1928	720698
I	269m E	Corporation Yard	1908	720698
D	275m E	Unspecified Pit	1956	690879
D	284m SE	Chemical Works	1938	762887
J	289m SW	Unspecified Mills	1956	717142
D	295m E	Railway Sidings	1956	721952
D	301m SE	Unspecified Works	1967	678782
J	301m SW	Unspecified Works	1980	745872
J	301m SW	Unspecified Works	1969	745872
J	301m SW	Unspecified Works	1974	745872
D	302m SE	Chemical Works	1928	716262
D	302m SE	Chemical Works	1908	716262
D	308m SE	Iron Foundry	1891	683054
J	309m SW	Unspecified Mills	1891	770924
K	311m S	Bleach Works	1938	720623
K	311m S	Bleach Works	1928	704578
K	311m S	Bleach Works	1908	704578
F	312m SW	Unspecified Pit	1938	690878
L	320m E	Refuse Destructor	1928	763903
F	321m SW	Cuttings	1956	748396
1	325m NE	Cuttings	1891	765748
2	330m S	Unspecified Heap	1956	650903
M	331m E	Unspecified Pit	1938	697847
M	332m E	Unspecified Ground Workings	1956	648138



ID	Location	Land Use	Date	Group ID
M	336m E	Unspecified Pit	1983	694394
M	336m E	Unspecified Pit	1967	694394
I	339m E	Corporation Yard	1983	746321
N	342m SE	Unspecified Mill	1967	783683
N	343m SE	Unspecified Mills	1956	756903
N	344m SE	Unspecified Mills	1928	784578
N	345m SE	Unspecified Mills	1983	787240
N	345m SE	Unspecified Mills	1938	756903
J	350m SW	Unspecified Mills	1938	717142
O	352m NE	Cuttings	1928	758861
O	352m NE	Cuttings	1908	758861
J	355m SW	Unspecified Mills	1928	771583
P	357m SW	Chimney	1980	740289
P	357m SW	Chimney	1969	740289
P	357m SW	Chimney	1974	740289
K	359m S	Bleach Works	1956	748474
K	359m S	Unspecified Commercial/Industrial	1967	643117
L	370m E	Refuse Destructor	1908	766379
L	372m E	Refuse Destructor	1938	700239
L	373m E	Corporation Yard	1956	770697
Q	381m SE	Railway Sidings	1956	764721
R	393m SW	Unspecified Heap	1891	650902
D	394m SE	Unspecified Pit	1938	690876
S	395m NE	Cuttings	1851	782227
R	398m SW	Unspecified Pit	1891	690872
4	400m NE	Sandstone Quarry	1851	686672
K	404m S	Bleach Works	1891	771727
T	410m SW	Cotton Mill	1851	644093



ID	Location	Land Use	Date	Group ID
N	410m SE	Unspecified Mills	1908	741535
I	410m E	Corporation Yard	1967	752383
L	416m E	Unspecified Tank	1928	674759
S	423m NE	Cuttings	1928	709782
S	423m NE	Cuttings	1908	709782
S	424m NE	Cuttings	1891	767414
U	425m S	Refuse Heap	1969	701709
5	426m SE	Unspecified Pit	1908	690875
L	429m E	Unspecified Heap	1908	650909
D	431m SE	Unspecified Pit	1891	690874
U	435m S	Refuse Heap	1980	697473
U	435m S	Refuse Heap	1974	697473
S	439m NE	Cuttings	1956	717349
I	439m E	Unspecified Pit	1891	757203
S	447m NE	Cuttings	1938	769154
6	454m N	Cotton Mills	1851	659322
7	459m SE	Colliery	1851	645270
W	465m SE	Railway Sidings	1956	718735
W	470m SE	Sawmill	1983	653544
X	473m W	Cuttings	1956	716932
W	480m SE	Unspecified Mill	1967	722834
X	482m W	Cuttings	1928	744741
8	484m W	Cuttings	1909	720183
9	486m S	Print Works	1851	680217
Q	489m SE	Railway Building	1956	669849
I	500m E	Unspecified Pit	1908	757203

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

25

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
D	280m E	Tanks	1982	94865
D	280m E	Tanks	1982	94865
D	281m E	Unspecified Tank	1992	82646
D	281m E	Tanks	1982	101982
D	281m E	Tanks	1982	101982
D	282m E	Tanks	1992	101982
D	287m E	Unspecified Tank	1992	82645
D	312m SE	Tanks	1939	87206
J	336m SW	Unspecified Tank	1959	82647
D	357m SE	Unspecified Tank	1910	94780
D	357m SE	Unspecified Tank	1930	94780
D	357m SE	Unspecified Tank	1939	94780
P	357m SW	Unspecified Tank	1981	100122
P	357m SW	Unspecified Tank	1987	100122
D	359m E	Tanks	1910	87198
L	374m E	Unspecified Tank	1939	82644
D	382m SE	Unspecified Tank	1982	88990
D	382m SE	Unspecified Tank	1982	88990
D	383m SE	Unspecified Tank	1992	96026
D	404m SE	Unspecified Tank	1982	94495
D	404m SE	Unspecified Tank	1982	94495
D	406m SE	Unspecified Tank	1992	94495
L	413m E	Unspecified Tank	1890	82637



ID	Location	Land Use	Date	Group ID
D	421m SE	Unspecified Tank	1939	82643
N	488m SE	Unspecified Tank	1983	82642

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

24

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
C	132m SW	Electricity Substation	1983	49672
C	132m SW	Electricity Substation	1981	51959
C	132m SW	Electricity Substation	1987	51959
C	133m SW	Electricity Substation	1992	51959
H	261m N	Electricity Substation	1992	57669
H	262m N	Electricity Substation	1977	55791
H	273m N	Electricity Substation	1986	57277
D	326m SE	Electricity Substation	1982	59162
D	326m SE	Electricity Substation	1982	59162
D	327m SE	Electricity Substation	1992	58428
3	372m S	Electricity Substation	1992	45024
V	442m W	Electricity Substation	1977	49000
V	442m W	Electricity Substation	1992	58321
V	442m W	Electricity Substation	1986	58321
T	459m SW	Electricity Substation	1983	57336
T	459m SW	Electricity Substation	1992	52408
T	460m SW	Electricity Substation	1981	52408
T	460m SW	Electricity Substation	1987	52408



ID	Location	Land Use	Date	Group ID
Y	476m NW	Electricity Substation	1992	56024
Y	476m NW	Electricity Substation	1977	56024
Y	477m NW	Electricity Substation	1986	56024
N	488m SE	Electricity Substation	1998	45021
N	496m SE	Electricity Substation	1983	52825
N	496m SE	Electricity Substation	1998	52825

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

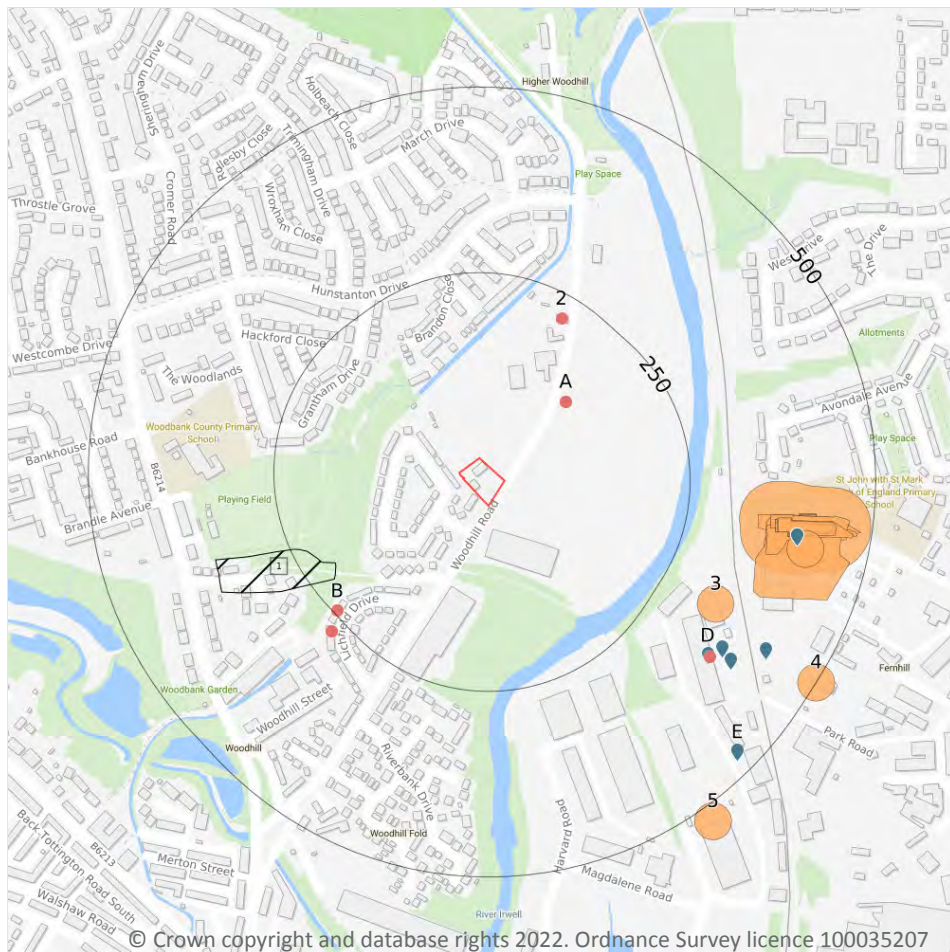
Records within 500m

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



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

1

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

Features are displayed on the Waste and landfill map on **page 29**

ID	Location	Details		
1	205m SW	Site Address: Land South of Cricket Ground, Woolfold, Bury Licence Holder Address: -	Waste Licence: - Site Reference: WML/0451 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

13

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 29**

ID	Location	Address	Further Details	Date
3	304m SE	Site Address: Land to the west of the, railway line off, Park Road, Bury, Greater Manchester, BL9 5BQ	Type of Site: Recycling Unit Planning application reference: 65200 Description: Scheme comprises recycling unit for inert matter Data source: Historic Planning Application Data Type: Point	12/03/2020



ID	Location	Address	Further Details	Date
C	320m E	Site Address: N/A	Type of Site: Refuse Destructor (B) Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1928
C	344m E	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1958
C	353m E	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1992
C	358m E	Site Address: N/A	Type of Site: Corporation Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1939
C	361m E	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1958
C	368m E	Site Address: N/A	Type of Site: Corporation Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1910
C	368m E	Site Address: N/A	Type of Site: Corporation Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1930
C	370m E	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1908
C	371m E	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1938



ID	Location	Address	Further Details	Date
C	390m E	Site Address: Every Street, BURY, Greater Manchester, BL9 5BE	Type of Site: Recycling Facility Planning application reference: 49415 Description: Scheme comprises redevelopment of a household waste recycling centre (HWRC), transfer loading station (TLS) and green waste processing facility (GWPF). An application (ref: 49415) for detailed planning permission was granted by Bury M.B.C. This is part of the PFI waste management scheme, lead 05087716 This scheme is now complete. Data source: Historic Planning Application Data Type: Point	01/07/2009
4	475m SE	Site Address: Drum Works, Park Road, Fernhill, BURY, Greater Manchester, BL9 5B	Type of Site: Waste Transfer Station Planning application reference: 35624 Description: Scheme provides the conversion from vacant industrial to stone and brick crushing yard and transfer station, and material stockpiles with planted screen to railway line. Demolition.. An application (ref: 35624) for Detailed Planning permission was refused by Bury M.B.C. on 1st August 2000. Data source: Historic Planning Application Data Type: Point	01/11/1999
5	496m SE	Site Address: Peel, Mills, Waste Transfer Station, Chamberhall Street, BURY, Greater Manchester, BL9 0	Type of Site: Waste Transfer Station (Extn) Planning application reference: 35270 Description: Extension to waste transfer station. Change of access and new 2.3m High palisade fencing. Earth bund. An application (ref: 35270) for Detailed Planning permission was submitted to Bury M.B.C. on 29th March 1999. 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	18
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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 29**



ID	Location	Details		
D	357m SE	Site Name: J & M Plant & Skip Hire Site Address: Fernhill Works, Park Road, Fernhill, Bury, Lancashire, BL9 5BQ Correspondence Address: Gorse Hill Farm, Starling Road, Ainsworth, Bury, Lancashire, BL8 2HJ	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JMP001 EPR reference: - Operator: Ford Martyn Waste Management licence No: 50053 Annual Tonnage: 2083.3	Issue Date: 28/09/2001 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
D	369m SE	Site Name: Fernhill Works Site Address: Fernhill Works, Park Road, Bury, Lancashire, BL9 5BQ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BSH004 EPR reference: EA/EPR/NB3837WY/T001 Operator: Davenport Sam Waste Management licence No: 50053 Annual Tonnage: 24999	Issue Date: 28/09/2001 Effective Date: 18/03/2013 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
D	387m SE	Site Name: Park House Site Address: PARK HOUSE SERVICES NW LIMITED, Park House, Park Road, Bury, BL9 5BQ Correspondence Address: -	Type of Site: Inert & excavation Waste TS + treatment Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: - EPR reference: EA/EPR/WE3118AA/V002 Operator: PARK HOUSE SERVICES NW LIMITED Waste Management licence No: 120080 Annual Tonnage: -	Issue Date: 12/09/2019 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
C	400m E	Site Name: Bury Transfer Loading Station Site Address: Every Street, Fernhill, Bury, Lancashire, BL9 5BE Correspondence Address: Po Box 151, Higher Swan Lane, Bolton, Lancs, BL3 3WW	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GMW001 EPR reference: - Operator: Greater Manchester Waste Ltd Waste Management licence No: 53653 Annual Tonnage: 0	Issue Date: 01/02/1995 Effective Date: - Modified: 01/06/2004 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
C	400m E	Site Name: Fernhill H W R C Site Address: Every Street, Fernhill, Bury, Lancashire, BL9 5BE Correspondence Address: P O Box 151, Higher Swan Lane, Bolton, Lancashire, BL3 3WW	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GMW001 EPR reference: - Operator: Greater Manchester Waste Ltd Waste Management licence No: 100338 Annual Tonnage: 0	Issue Date: 12/06/2008 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
C	400m E	Site Name: Bury Transfer Loading Station Site Address: Fernhill Depot, Every Street F, Fernhill, Bury, Lancashire, BL9 5BY Correspondence Address: P O Box 151, Higher Swan Lane, Bolton, Lancashire, BL3 3WW	Type of Site: Special Waste Transfer Station Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRE012 EPR reference: - Operator: G M Waste Ltd Waste Management licence No: 50218 Annual Tonnage: 0	Issue Date: 02/06/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
C	400m E	Site Name: Bury Transfer Loading Station Site Address: Fernhill Depot, Every Street F, Fernhill, Bury, Lancashire, BL9 5BY Correspondence Address: P O Box 151, Higher Swan Lane, Bolton, Lancashire, BL3 3WW	Type of Site: Special Waste Transfer Station Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRE012 EPR reference: - Operator: G M Waste Ltd Waste Management licence No: 50218 Annual Tonnage: 0	Issue Date: 02/06/2004 Effective Date: - Modified: 12/07/2007 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
C	400m E	Site Name: Fernhill H W R C, T L S And Green Waste Processing Facility Site Address: Fernhill H W R C, T L S & Green Waste Processing Facility, Every Street, Fernhill, Bury, Lancashire, BL9 5BE Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GMW001 EPR reference: EA/EPR/KP3098ED/V003 Operator: Viridor Waste (Greater Manchester) Limited Waste Management licence No: 100338 Annual Tonnage: 200000	Issue Date: 12/06/2008 Effective Date: - Modified: 04/09/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
C	400m E	Site Name: Bury Transfer Loading Station Site Address: Fernhill Depot, Every Street F, Fernhill, Bury, Lancashire, BL9 5BY Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRE012 EPR reference: EA/EPR/BP3894CW/V003 Operator: Viridor Waste (Greater Manchester) Ltd Waste Management licence No: 50218 Annual Tonnage: 75000	Issue Date: 02/06/2004 Effective Date: - Modified: 28/05/2009 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
C	400m E	Site Name: Bury Transfer Loading Station Site Address: Every Street F, Fernhill, Bury, Lancs, BL9 5BY Correspondence Address: P O Box 151, Higher Swan Lane, Bolton, Lancs, BL3 3WW	Type of Site: Special Waste Transfer Station Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRE012 EPR reference: - Operator: Greater Manchester Waste Limited Waste Management licence No: 50218 Annual Tonnage: 0	Issue Date: 02/06/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
C	400m E	Site Name: Fernhill H W R C Site Address: Land/ Premises At, Every Street, Fernhill, Bury, Lancashire, BL9 5BE Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GMW001 EPR reference: EA/EPR/KP3098ED/V002 Operator: Viridor Waste (Greater Manchester) Ltd Waste Management licence No: 100338 Annual Tonnage: 200000	Issue Date: 12/06/2008 Effective Date: - Modified: 21/05/2009 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
C	400m E	Site Name: Fernhill H W R C, T L S And Green Waste Processing Facility Site Address: Fernhill H W R C, T L S & Green Waste Processing Facility, Every Street, Fernhill, Bury, Lancashire, BL9 5BE Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GMW001 EPR reference: EA/EPR/KP3098ED/V003 Operator: Viridor Waste (Greater Manchester) Ltd Waste Management licence No: 100338 Annual Tonnage: 200000	Issue Date: 12/06/2008 Effective Date: - Modified: 04/09/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
C	400m E	Site Name: Bury Transfer Loading Station Site Address: Fernhill Depot, Every Street F, Fernhill, Bury, Lancashire, BL9 5BY Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRE012 EPR reference: EA/EPR/BP3894CW/V003 Operator: Viridor Waste (Greater Manchester) Ltd Waste Management licence No: 50218 Annual Tonnage: 75000	Issue Date: 02/06/2004 Effective Date: - Modified: 28/05/2009 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked



ID	Location	Details		
C	400m E	Site Name: Bury Transfer Loading Station Site Address: Fernhill Depot, Every Street, Fernhill, Bury, Lancashire, BL9 5BJ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GMW001 EPR reference: EA/EPR/PP3696CG/V002 Operator: G M Waste Ltd Waste Management licence No: 53653 Annual Tonnage: 189625	Issue Date: 01/02/1995 Effective Date: - Modified: 01/06/2004 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked
C	400m E	Site Name: Fernhill H W R C, T L S And Green Waste Processing Facility Site Address: Fernhill H W R C, T L S & Green Waste Processing Facility, Every Street, Fernhill, Bury, Lancashire, BL9 5BE Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SUE012 EPR reference: EA/EPR/GB3907KB/T001 Operator: S U E Z Recycling And Recovery U K Ltd Waste Management licence No: 100338 Annual Tonnage: 200000	Issue Date: 12/06/2008 Effective Date: 01/06/2019 Modified: 04/09/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
D	419m SE	Site Name: Abbey Skips Waste Transfer Station Site Address: - Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ABB001 EPR reference: EA/EPR/EB3404MT/V002 Operator: Abbey Skip Hire Ltd Waste Management licence No: 403495 Annual Tonnage: 75	Issue Date: 30/09/2016 Effective Date: - Modified: 25/01/2022 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
E	471m SE	Site Name: B Deardon Transfer Station Site Address: Peel Mills, Gordon Street, Bury, Lancashire, BL9 0LS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BDE001 EPR reference: EA/EPR/XP3996CY/A001 Operator: Dearden Bernard Waste Management licence No: 53713 Annual Tonnage: 520	Issue Date: 15/09/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
E	471m SE	Site Name: B Deardon Transfer Station Site Address: Peel Mills, Gordon Street, Bury, Lancashire, BL9 0LS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BDE001 EPR reference: EA/EPR/XP3996CY/A001 Operator: Dearden Bernard Waste Management licence No: 53713 Annual Tonnage: 520	Issue Date: 15/09/1994 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

9

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

Features are displayed on the Waste and landfill map on **page 29**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	134m NE	-	WEX175720	Using waste exemption	On a farm	Use of waste in construction
A	134m NE	-	WEX175720	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit

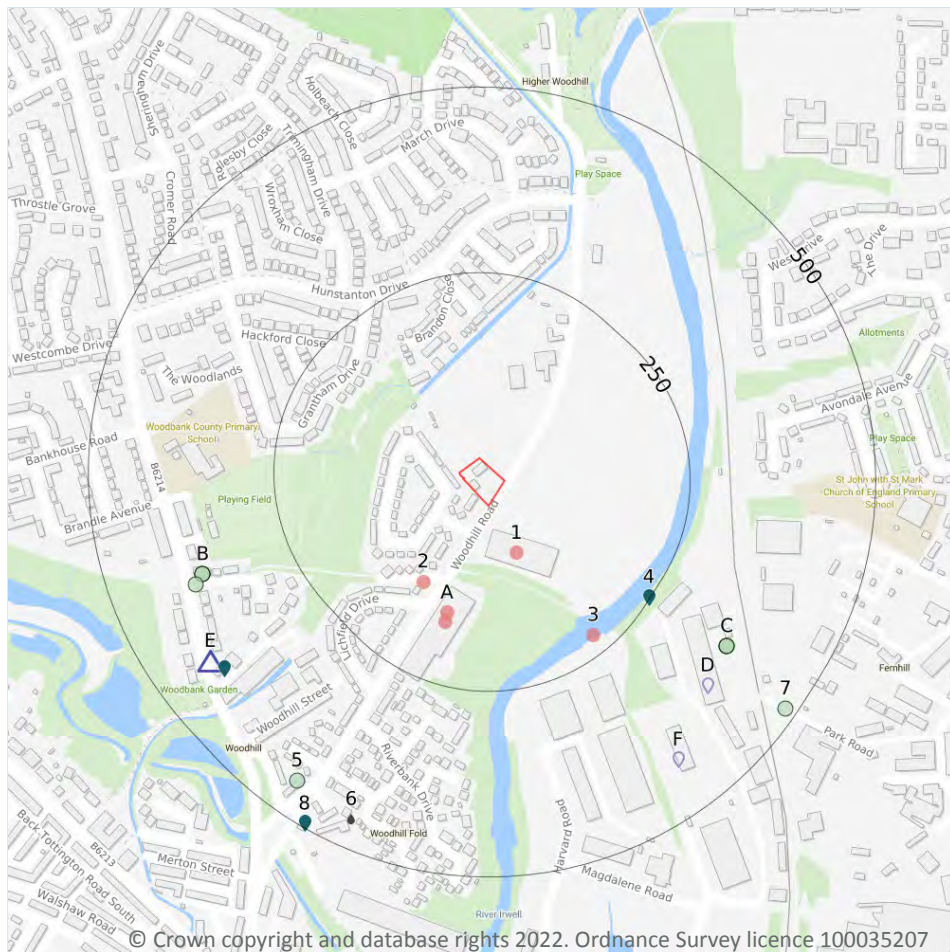


ID	Location	Site	Reference	Category	Sub-Category	Description
A	134m NE	-	WEX175720	Using waste exemption	On a farm	Pig and poultry ash
2	218m NE	-	WEX230829	Using waste exemption	On a farm	Use of waste in construction
B	246m SW	29 Lichfield Drive Bury Bury BL8 1BJ	EPR/NF0702FA/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	246m SW	29 Lichfield Drive Bury Bury BL8 1BJ	EPR/NF0702FA/A001	Using waste exemption	Non-Agricultural Waste Only	Burning of waste as a fuel in a small appliance
B	270m SW	29, LICHFIELD DRIVE, BURY, BL8 1BJ	WEX216820	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	270m SW	29, LICHFIELD DRIVE, BURY, BL8 1BJ	WEX216820	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
D	361m SE	Units 29, 30, 31, Peel Industrial Estate, Bury, Gtr Manchester, BL9 0LU	EA/EPR/VP378 4TL/A001	Treating waste exemption	Non-Agricultural Waste Only	Repair or refurbishment of WEEE

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

5

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 40**

ID	Location	Company	Address	Activity	Category
1	74m SE	Lancashire P V C U Trade Frames	Lancashire House, Woodhill Road, Bury, Greater Manchester, BL8 1BD	Rubber, Silicones and Plastics	Industrial Products
2	135m SW	Electricity Sub Station	Greater Manchester, BL8	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
A	155m S	Kadant UK Ltd	Riverside Works, Woodhill Road, Bury, Greater Manchester, BL8 1BD	Industrial Engineers	Engineering Services
A	167m S	Works	Greater Manchester, BL8	Unspecified Works Or Factories	Industrial Features
3	224m SE	Outfall	Greater Manchester, BL9	Waste Storage, Processing and Disposal	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 40**

ID	Location	Company	Address	LPG	Status
E	420m SW	ESSO	24, Brandlesholme Road, Bury, Greater Manchester, BL8 1AU	No	Open

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

4

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

Features are displayed on the Current industrial land use map on **page 40**

ID	Location	Details	
D	381m SE	Operator: IRWELL POWER LIMITED Installation Name: IRWELL POWER LIMITED Process: NEW MEDIUM COMBUSTION PLANT Permit Number: RP3931QZ Original Permit Number: RP3931QZ	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 15/05/2020 Status: DETERMINATION
D	381m SE	Operator: IRWELL POWER LIMITED Installation Name: UNIT 28,29,30, PEEL MILLS INDUSTRIAL ESTATE Process: TRANCHE B SG PERMITTING DATE 1ST JANUARY 2019 Permit Number: RP3931QZ Original Permit Number: RP3931QZ	EPR Reference: - Issue Date: 03/04/2020 Effective Date: 03/04/2020 Last date noted as effective: 13/06/2022 Status: EFFECTIVE
F	426m SE	Operator: BURY POWER LIMITED Installation Name: BURY POWER LIMITED Process: NEW MEDIUM COMBUSTION PLANT Permit Number: AP3031QS Original Permit Number: AP3031QS	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 15/05/2020 Status: DETERMINATION
F	426m SE	Operator: BURY POWER LIMITED Installation Name: CHAMBERHALL STREET Process: TRANCHE B SG PERMITTING DATE 1ST JANUARY 2019 Permit Number: AP3031QS Original Permit Number: AP3031QS	EPR Reference: - Issue Date: 03/04/2020 Effective Date: 03/04/2020 Last date noted as effective: 13/06/2022 Status: EFFECTIVE

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

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

Records within 500m

3

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

Features are displayed on the Current industrial land use map on **page 40**



ID	Location	Address	Details	
4	248m SE	Wilcox Drums Ltd, Tile Street, BL9 5BR	Process: Other Metal Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
E	411m SW	BP Prospect, 124-126 Brandlesholme Road, Bury, BL8 1AU	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
8	494m SW	Cheetham Hill Construction, Crostons Road, BL8 1AR	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

1

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

Features are displayed on the Current industrial land use map on **page 40**

ID	Location	Address	Details	
6	460m SW	RESIDENTIAL DEVELOPMENT, WOODHILL ROAD, BURY, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991164 Permit Version: 1 Receiving Water: RIVER IRWELL	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: - Effective Date: 01/11/1994 Revocation Date: 01/11/1994

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



4.14 Pollutant release to surface waters (Red List)

Records within 500m**0**

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

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

4.15 Pollutant release to public sewer

Records within 500m**0**

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m**0**

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

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

4.17 List 2 Dangerous Substances

Records within 500m**0**

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m**9**

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

Features are displayed on the Current industrial land use map on **page 40**

ID	Location	Details	
B	371m W	Incident Date: 07/05/2002 Incident Identification: 77045 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
B	371m W	Incident Date: 07/05/2002 Incident Identification: 77045 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
B	371m W	Incident Date: 07/05/2002 Incident Identification: 77045 Pollutant: Inert Materials and Wastes:Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes:Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
C	372m SE	Incident Date: 06/06/2007 Incident Identification: 500798 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 3 (Minor) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
C	372m SE	Incident Date: 06/06/2007 Incident Identification: 500798 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 3 (Minor) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
C	372m SE	Incident Date: 06/06/2007 Incident Identification: 500798 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 3 (Minor) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
B	385m SW	Incident Date: 20/03/2001 Incident Identification: 569 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
5	451m SW	Incident Date: 31/03/2001 Incident Identification: 1256 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
7	484m SE	Incident Date: 28/09/2002 Incident Identification: 111115 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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



4.19 Pollution inventory substances

Records within 500m

0

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

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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

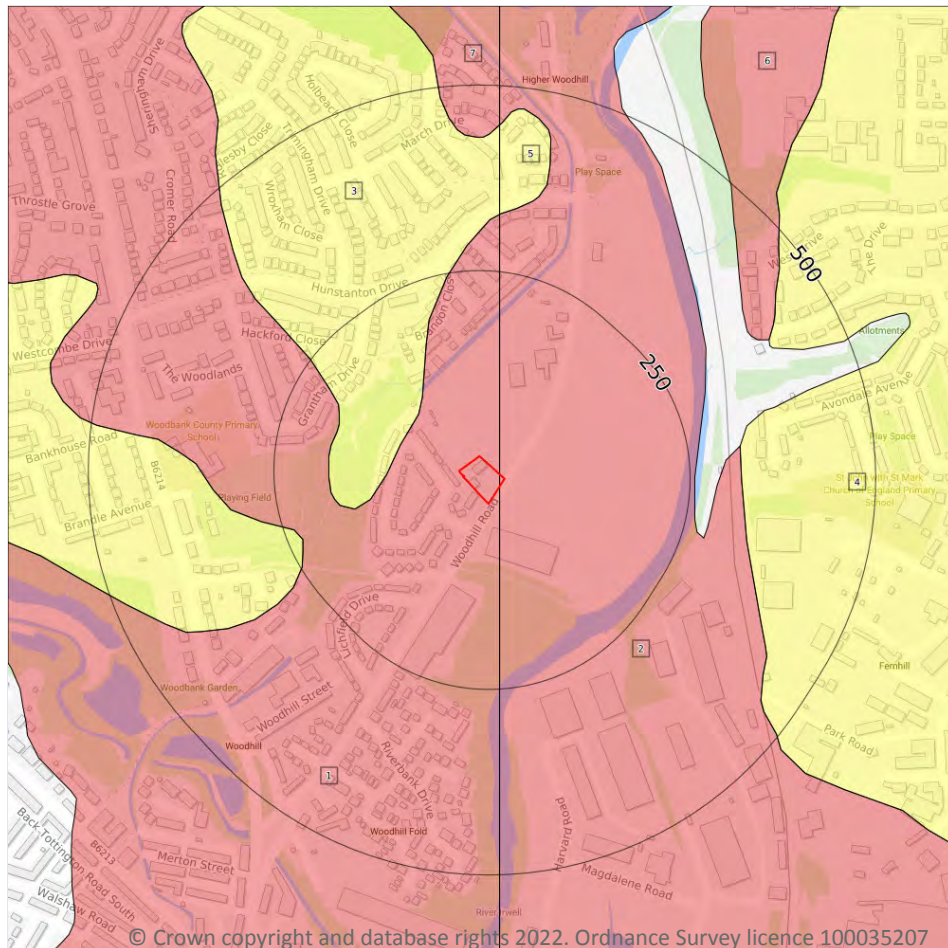
Records within 500m

0

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

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

5 Hydrogeology - Superficial aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

5.1 Superficial aquifer

Records within 500m

7

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 48**

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

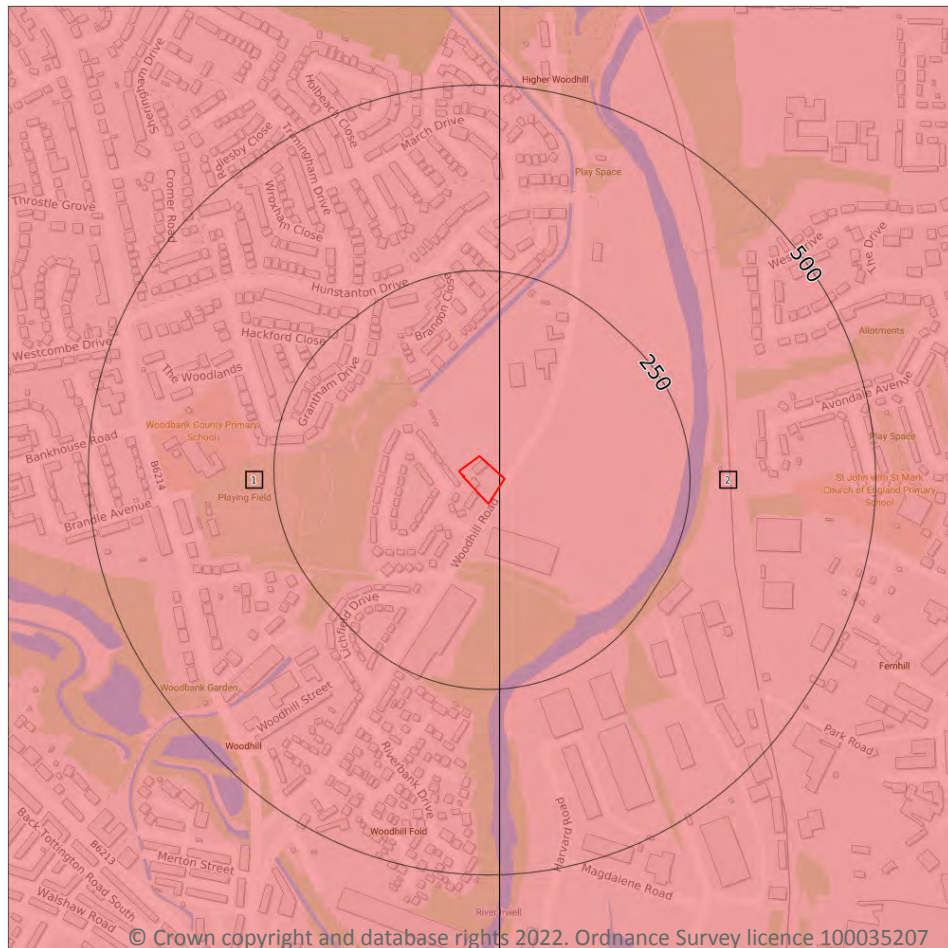


ID	Location	Designation	Description
3	86m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	319m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	327m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
6	383m NE	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
7	430m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 50**

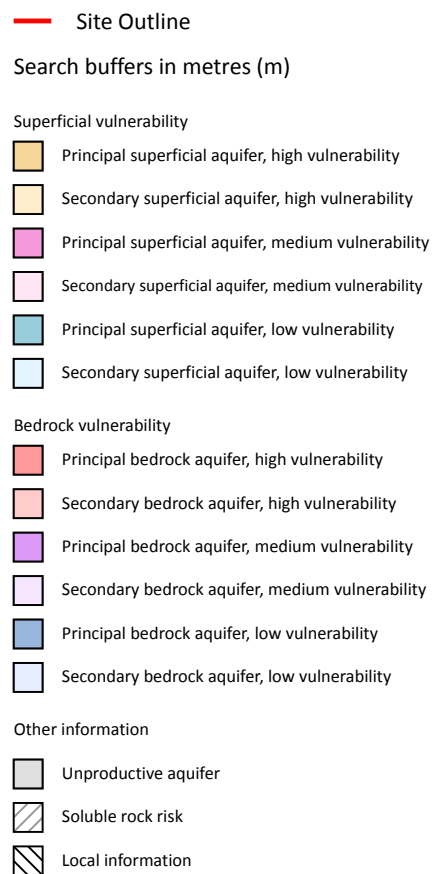
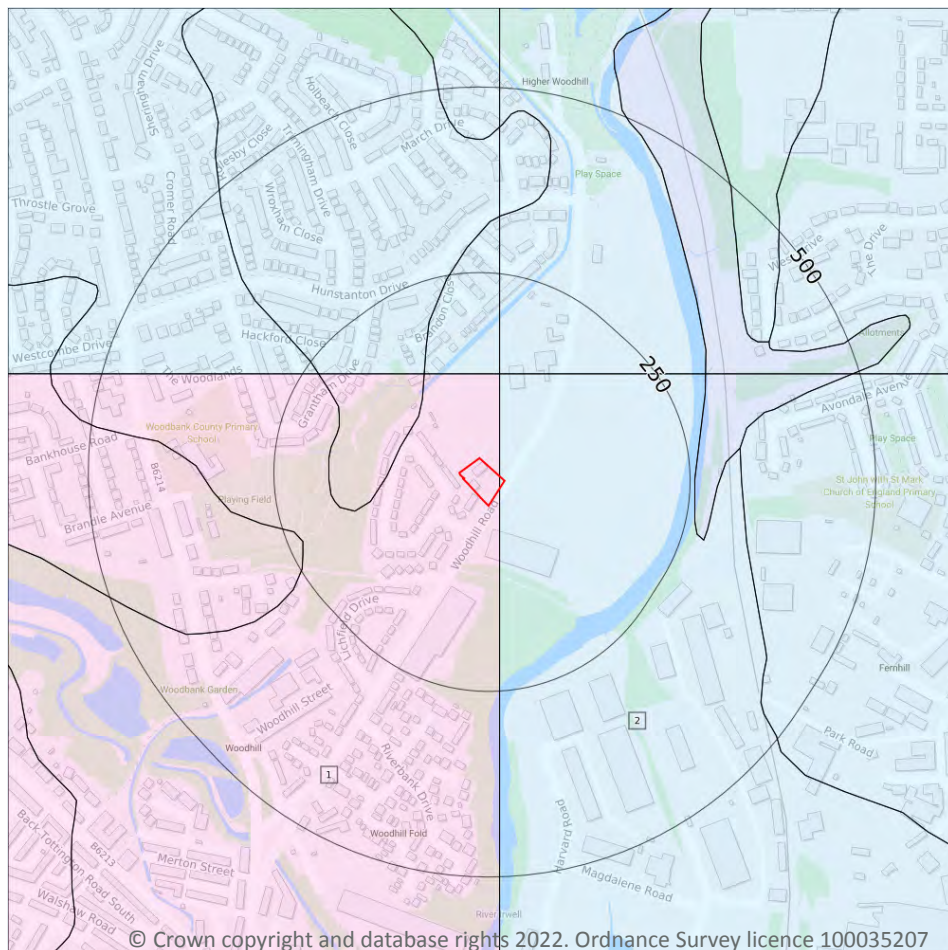
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary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



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 52**



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Medium	Vulnerability: Low 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
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This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

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

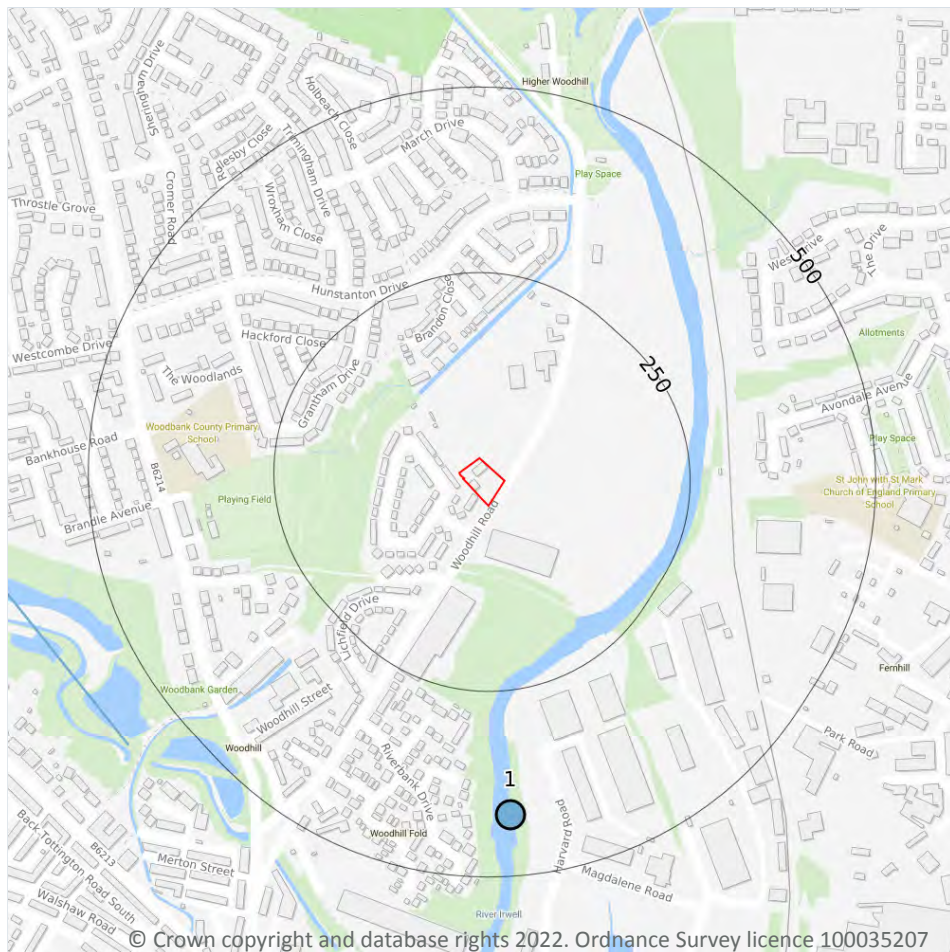
5.5 Groundwater vulnerability- local information

Records on site	0
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This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

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

Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

7

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 54**

ID	Location	Details	
-	955m W	Status: Historical Licence No: 2569001017 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, OLIVES PAPERMILLS, BURY" Data Type: Point Name: ACTIVECRAFT LTD PAPERMAKERS Easting: 379000 Northing: 412000	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: 16/06/1995 Version End Date: -
-	955m W	Status: Historical Licence No: 2569001017 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, OLIVES PAPERMILLS, BURY Data Type: Point Name: ACTIVECRAFT LTD PAPERMAKERS Easting: 379000 Northing: 412000	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: 16/06/1995 Version End Date: -
-	955m W	Status: Historical Licence No: 2569001017 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, OLIVES PAPERMILLS, BURY Data Type: Point Name: ACTIVECRAFT LTD PAPERMAKERS Easting: 379000 Northing: 412000	Annual Volume (m ³): 154564 Max Daily Volume (m ³): 1591.1 Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/06/1995 Version End Date: -
-	1220m N	Status: Historical Licence No: 2569001123 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT IRWELL VIEW FARM, WALMESLEY, BURY, LANCASHIRE" Data Type: Point Name: FITTON Easting: 380100 Northing: 413100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 19/01/1966 Version End Date: -



ID	Location	Details	
-	1220m N	Status: Historical Licence No: 2569001123 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT IRWELL VIEW FARM, WALMESLEY,BURY, LANCASHIRE Data Type: Point Name: FITTON Easting: 380100 Northing: 413100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 19/01/1966 Version End Date: -
-	1746m W	Status: Historical Licence No: 2569001057 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT BOLHOLT FARM, WALSHAW, BURY" Data Type: Point Name: HEYS Easting: 378200 Northing: 411900	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: -
-	1746m W	Status: Historical Licence No: 2569001057 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT BOLHOLT FARM, WALSHAW, BURY Data Type: Point Name: HEYS Easting: 378200 Northing: 411900	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: -

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

5.7 Surface water abstractions

Records within 2000m

18

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 54**



ID	Location	Details	
1	417m S	Status: Historical Licence No: NW/069/0001/007 Details: Hydroelectric Power Generation Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT CHAMBER HALL WEIR Data Type: Point Name: Bury Council Easting: 380014 Northing: 411406	Annual Volume (m ³): 90,000,000 Max Daily Volume (m ³): 340,416 Original Application No: - Original Start Date: 10/06/2016 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 10/06/2016 Version End Date: -
A	576m SW	Status: Historical Licence No: 2569001170 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: KIRKLEES BRK AT WOOLFOLD, BURY93 Data Type: Line Name: ACTIVECRAFT LTD PAPERMAKERS Easting: 378700 Northing: 412500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/06/1995 Version End Date: -
A	576m SW	Status: Historical Licence No: 2569001170 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "KIRKLEES BRK AT WOOLFOLD, BURY \$93" Data Type: Line Name: ACTIVECRAFT LTD PAPERMAKERS Easting: 378700 Northing: 412500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/06/1995 Version End Date: -
A	576m SW	Status: Historical Licence No: 2569001170 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: KIRKLEES BRK AT WOOLFOLD, BURY \$93 Data Type: Line Name: ACTIVECRAFT LTD PAPERMAKERS Easting: 378700 Northing: 412500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/06/1995 Version End Date: -
A	576m SW	Status: Historical Licence No: 2569001170 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: KIRKLEES BRK AT WOOLFOLD, BURY Data Type: Line Name: ACTIVECRAFT LTD PAPERMAKERS Easting: 378700 Northing: 412500	Annual Volume (m ³): 850102 Max Daily Volume (m ³): 3182.2 Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/06/1995 Version End Date: -



ID	Location	Details	
-	946m W	Status: Historical Licence No: 2569001170 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY KIRKLESS BROOK AND SURFACE DRAINAGE Data Type: Point Name: ACTIVECRAFT LTD PAPERMAKERS Easting: 379000 Northing: 411900	Annual Volume (m ³): 850102 Max Daily Volume (m ³): 3182.2 Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/06/1995 Version End Date: -
-	1160m S	Status: Historical Licence No: 2569001285 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT RMC NORTHERNT BURY CANAL WHARF Data Type: Point Name: CEMEX UK MATERIALS LTD Easting: 379706 Northing: 410696	Annual Volume (m ³): 5500 Max Daily Volume (m ³): 21 Original Application No: - Original Start Date: 23/03/2005 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 01/04/2008 Version End Date: -
-	1160m S	Status: Active Licence No: 2569001285R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT RMC NORTHERNT BURY CANAL WHARF Data Type: Point Name: CEMEX UK MATERIALS LTD Easting: 379706 Northing: 410696	Annual Volume (m ³): 5,500 Max Daily Volume (m ³): 21 Original Application No: NPS/WR/030717 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 21/12/2018 Version End Date: -
-	1220m N	Status: Active Licence No: NW/069/0001/016 Details: General Use Relating To Secondary Category (Very Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT ELTON RESERVOIR Data Type: Point Name: Canal and River Trust Easting: 379677 Northing: 413070	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: NPS/NA/001138 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -

ID	Location	Details	
-	1291m E	Status: Historical Licence No: 2569001289 Details: Lake & Pond Throughflow Direct Source: Surface, Non-Tidal - North West Region Point: TRIBUTARY OF THE RIVER IRWELL, AT CLARENCE PARK LIDO Data Type: Point Name: BURY METROPOLITAN BOROUGH COUNCIL Easting: 381211 Northing: 412322	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/12/2008 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 22/12/2008 Version End Date: -
-	1291m E	Status: Active Licence No: 2569001289R01 Details: Lake & Pond Throughflow Direct Source: Surface, Non-Tidal - North West Region Point: TRIBUTARY OF THE RIVER IRWELL, AT CLARENCE PARK LIDO Data Type: Point Name: BURY METROPOLITAN BOROUGH COUNCIL Easting: 381211 Northing: 412322	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: NPS/WR/017227 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1435m SW	Status: Historical Licence No: 2569001160 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS FED BY ELTON BRK AT BURY [10 Data Type: Point Name: THE ELTON COP DYEING CO LTD Easting: 378800 Northing: 411000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/02/1975 Version End Date: -
-	1600m SW	Status: Historical Licence No: 2569001155 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY SURFACE DRAINAGE ATBURY, (KNOWN AS PARKERS Data Type: Point Name: CURTAIN STYLING LTD Easting: 378600 Northing: 411000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/01/1975 Version End Date: -



ID	Location	Details	
-	1600m SW	Status: Historical Licence No: 2569001155 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY SURFACE DRAINAGE ATBURY, (KNOWN AS PARKERS) Data Type: Point Name: CURTAIN STYLING LTD Easting: 378600 Northing: 411000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/01/1975 Version End Date: -
-	1600m SW	Status: Historical Licence No: 2569001155 Details: General use relating to Secondary Category (Medium Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR FED BY SURFACE DRAINAGE ATBURY, (KNOWN AS PARKERS " Data Type: Point Name: CURTAIN STYLING LTD Easting: 378600 Northing: 411000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/01/1975 Version End Date: -
-	1600m SW	Status: Historical Licence No: 2569001155 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR FED BY SURFACE DRAINAGE ATBURY, (KNOWN AS PARKERS " Data Type: Point Name: CURTAIN STYLING LTD Easting: 378600 Northing: 411000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 03/01/1975 Version End Date: -
-	1685m SW	Status: Historical Licence No: 2569001160 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS FED BY ELTON BRK AT BURY 88 Data Type: Point Name: THE ELTON COP DYEING CO LTD Easting: 378500 Northing: 411000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/02/1975 Version End Date: -



ID	Location	Details	
-	1738m SW	Status: Historical Licence No: 2569001160 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS FED BY ELTON BRK AT BURY *27 Data Type: Point Name: THE ELTON COP DYEING CO LTD Easting: 378500 Northing: 410900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/02/1975 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	0
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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.

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

5.9 Source Protection Zones

Records within 500m	0
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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.

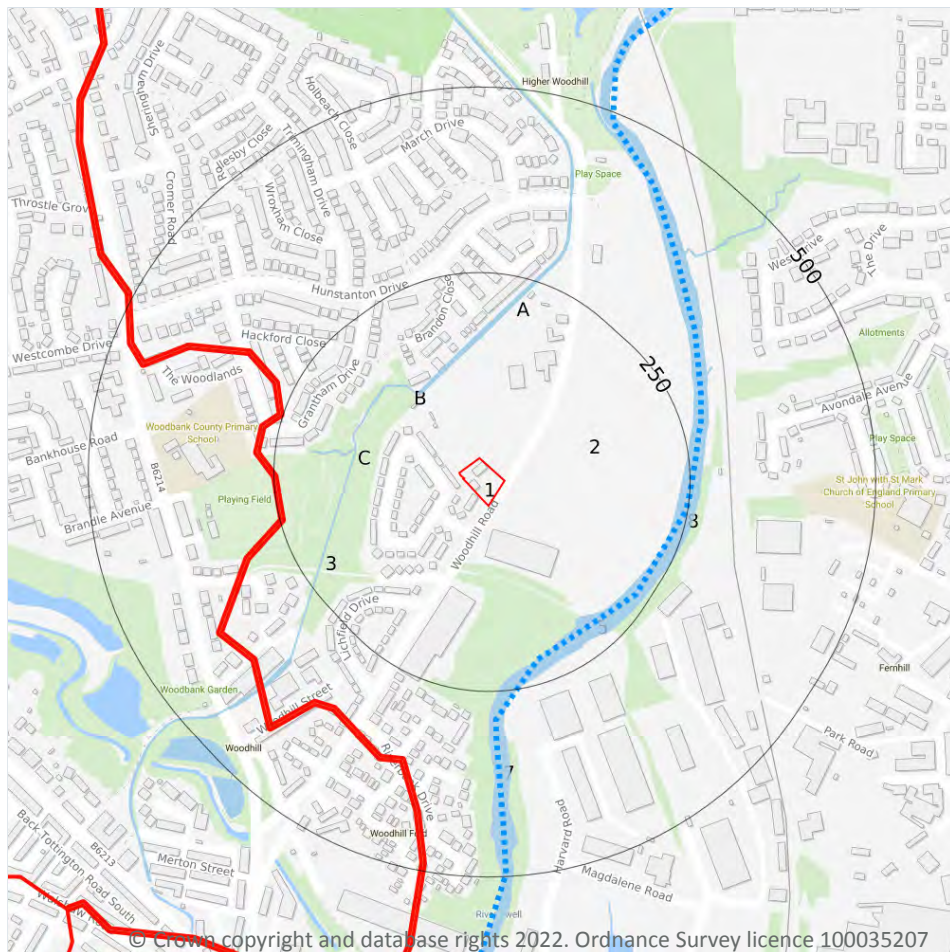
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0
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Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

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

6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

12

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 62**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	117m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
B	118m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	137m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	142m W	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
C	142m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	143m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	143m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	143m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	146m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	198m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	215m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Irwell
8	219m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Irwell

This data is sourced from the Ordnance Survey.



6.2 Surface water features

Records within 250m

6

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 62**

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 62**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	On site	River	Irwell (Rossendale STW to Roch)	GB112069064620	Croal Irwell	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 62**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
6	210m SE	River	Irwell (Rossendale STW to Roch)	GB112069064620	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 62**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Northern Manchester Carboniferous Aquifers	<u>GB41202G101800</u>	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

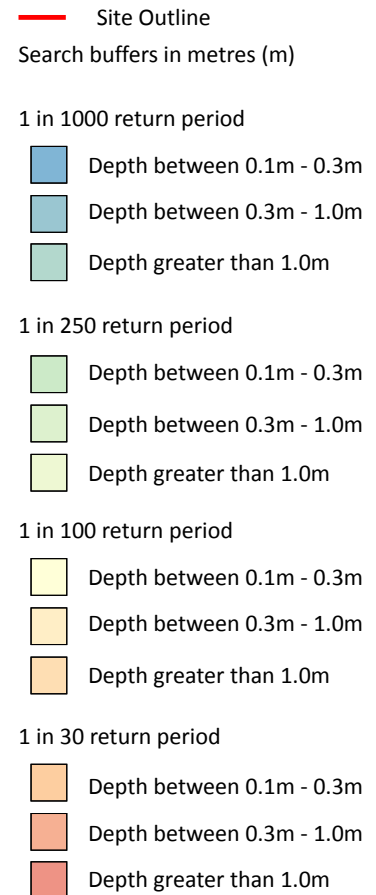
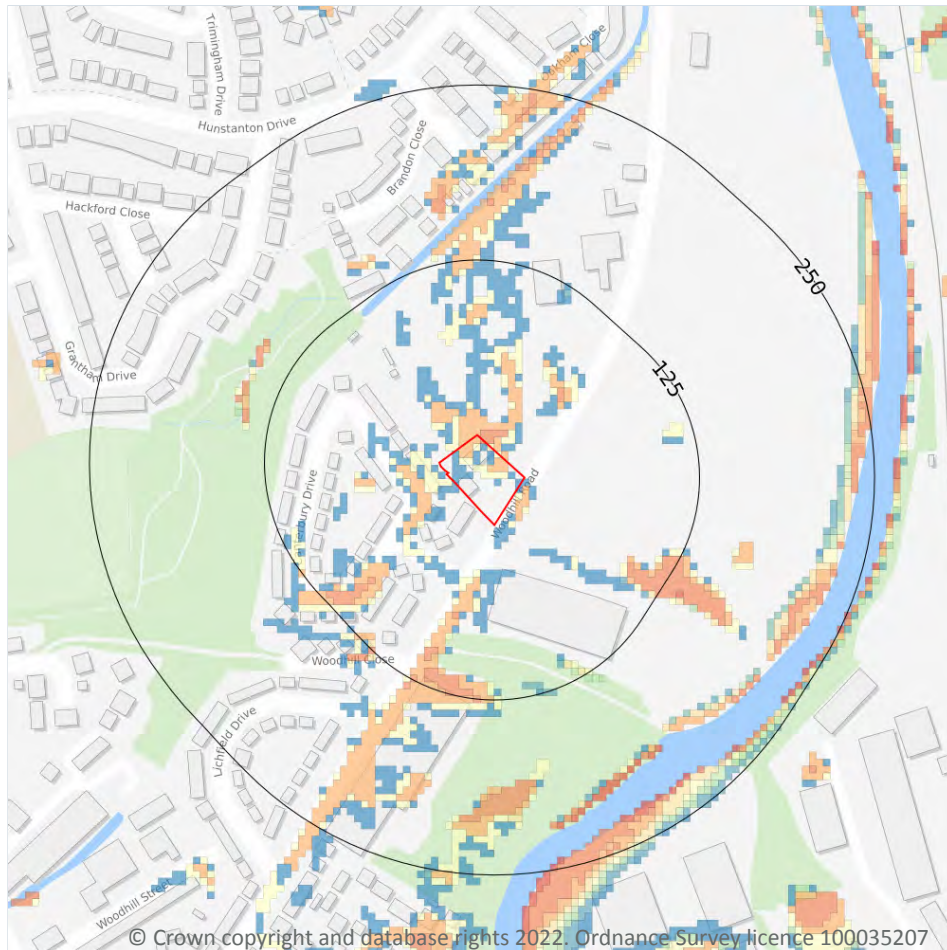
0

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

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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

Features are displayed on the Surface water flooding map on **page 69**

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.

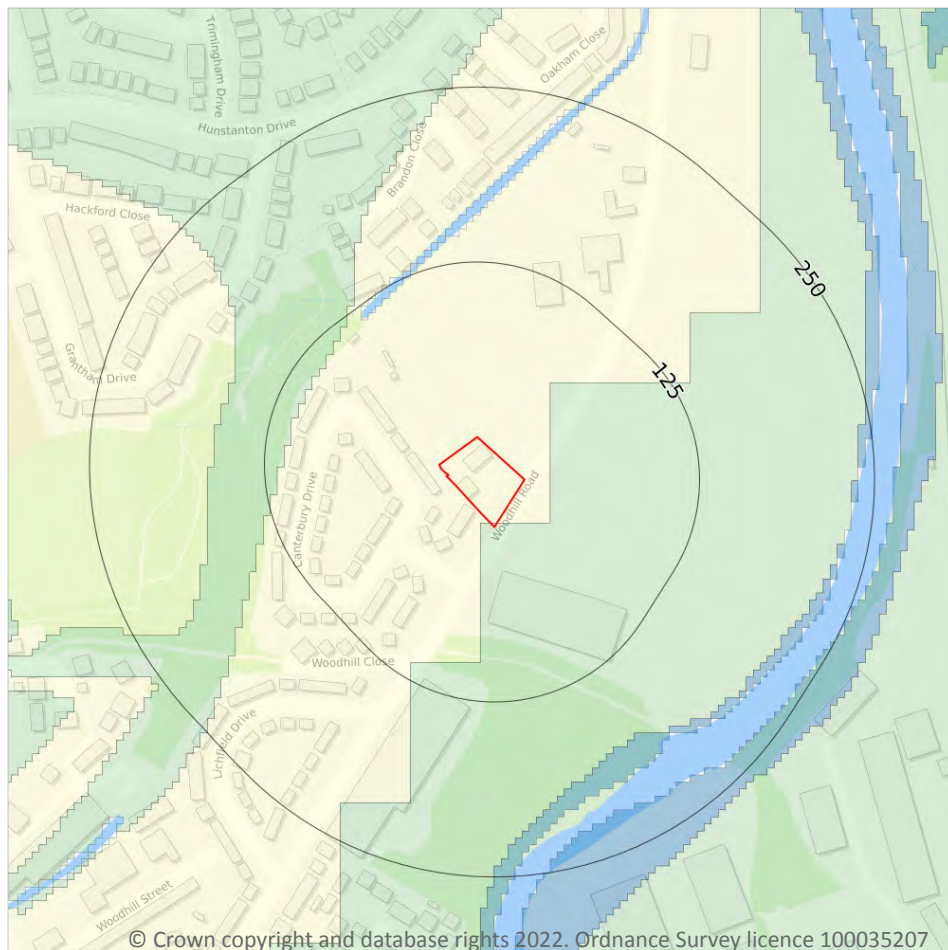
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 1.0m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

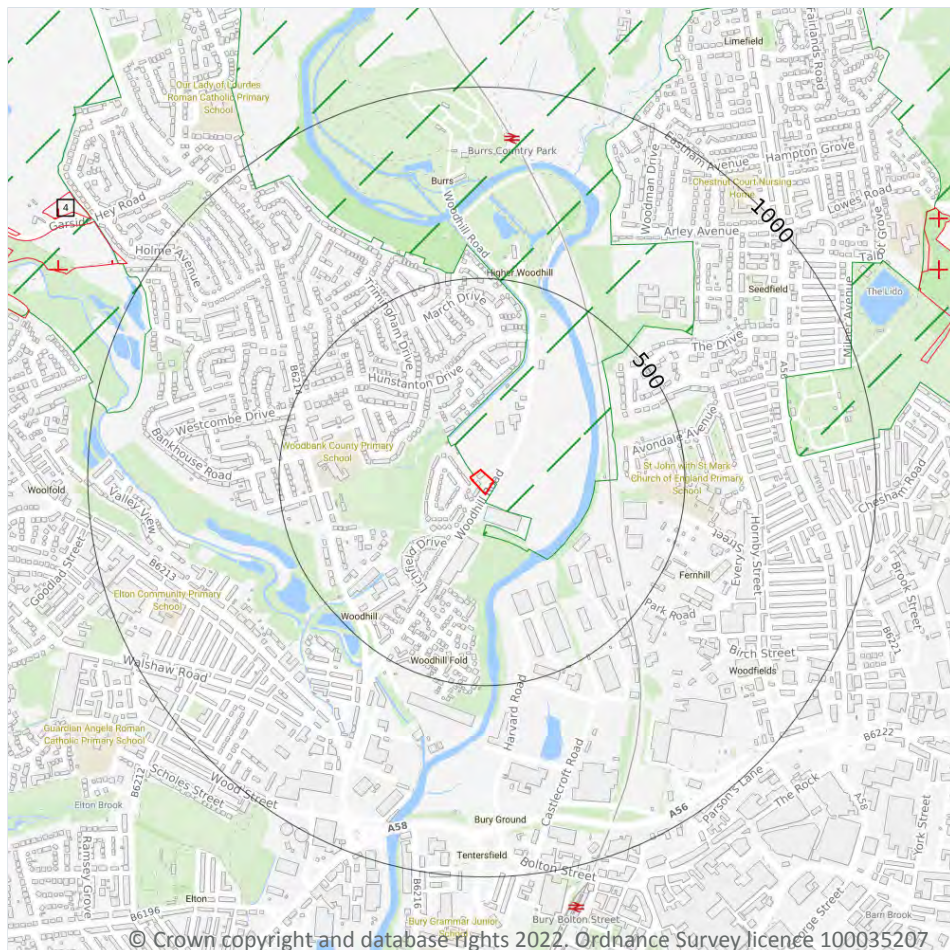
Moderate

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 71**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)
- / Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m

5

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

Features are displayed on the Environmental designations map on **page 72**

ID	Location	Name	Data source
2	1057m NW	Kirklees Valley	Natural England
3	1161m E	Chesham Woods	Natural England
4	1199m NW	Kirklees Valley	Natural England
6	1337m NW	Kirklees Valley	Natural England
-	1514m NW	Kirklees Valley	Natural England

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**

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

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

10.11 Green Belt

Records within 2000m**2**

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

Features are displayed on the Environmental designations map on **page 72**

ID	Location	Name	Local Authority name
1	On site	Merseyside and Greater Manchester	Bury
-	1333m W	Merseyside and Greater Manchester	Bury

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

10.12 Proposed Ramsar sites

Records within 2000m**0**

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

This data is sourced from Natural England.



10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m**0**

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

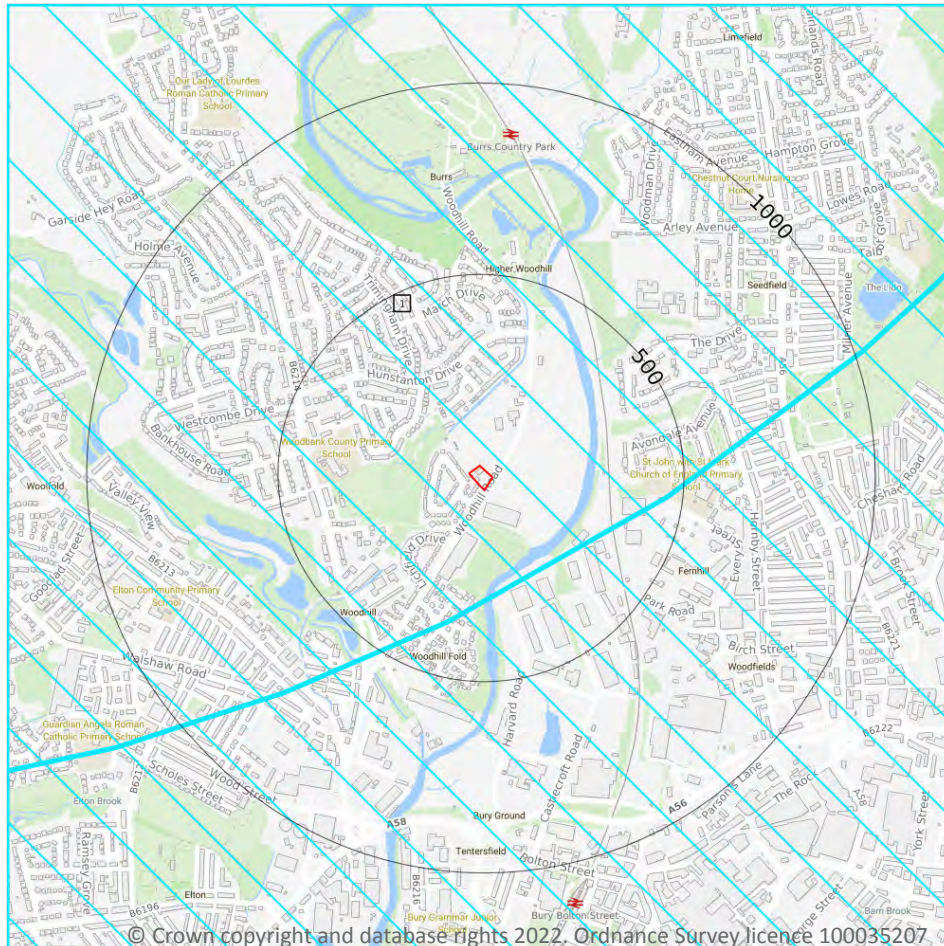
Records within 2000m**0**

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

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



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 77**

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 > 750m², manure stores > 3500t. Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.

This data is sourced from Natural England.

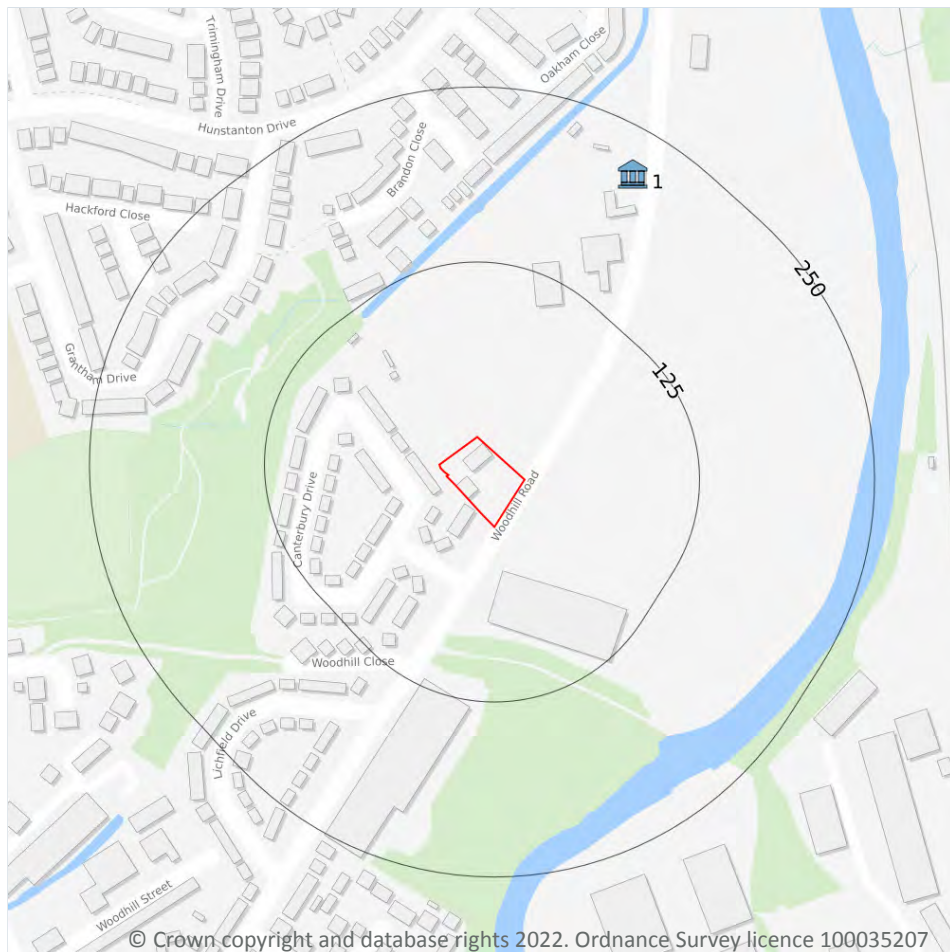
10.18 SSSI Units

Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

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

11 Visual and cultural designations



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

11.1 World Heritage Sites

Records within 250m

0

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

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



11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

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 79**

ID	Location	Name	Grade	Reference Number	Listed date
1	218m NE	Calrows Farmhouse, Elton, Bury, BL8	II	1067268	21/09/1982

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

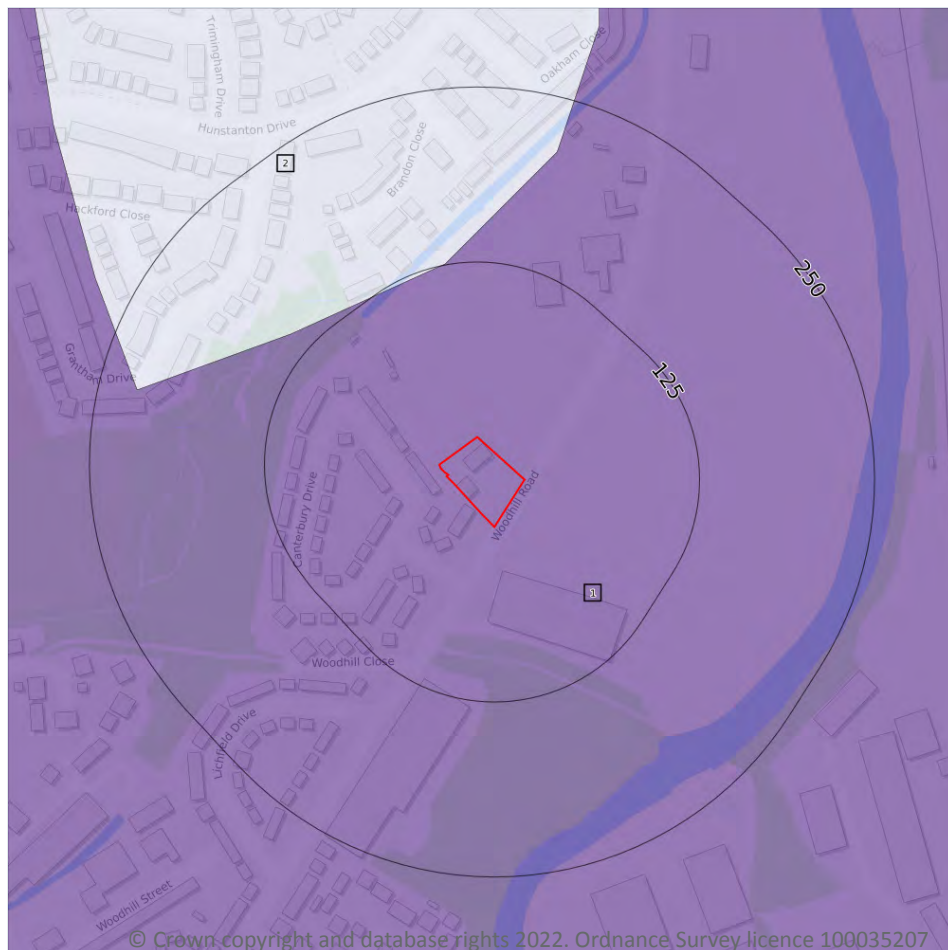
Records within 250m**0**

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



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

12.1 Agricultural Land Classification

Records within 250m

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 82**

ID	Location	Classification	Description
1	On site	Urban	-

ID	Location	Classification	Description
2	122m NW	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.

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

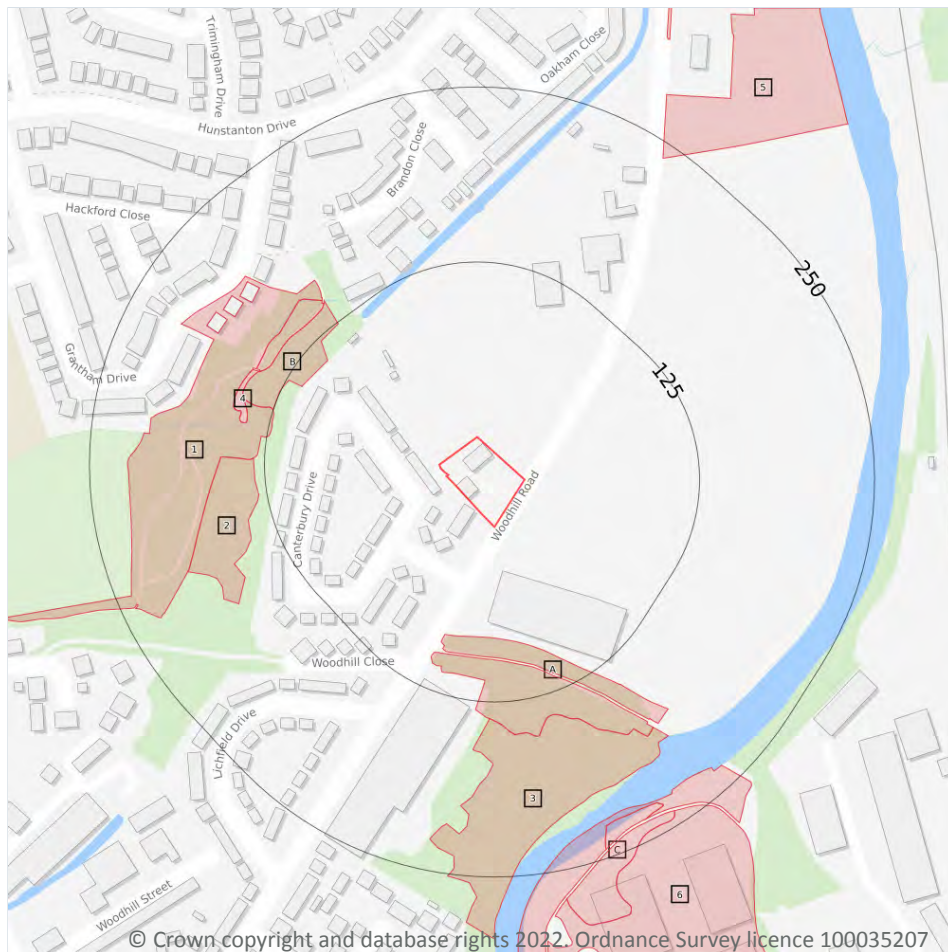
0

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



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

13.1 Priority Habitat Inventory

Records within 250m

13

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 85**

ID	Location	Main Habitat	Other habitats
A	79m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	94m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	109m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
1	123m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
2	131m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	137m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	138m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	141m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	222m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	227m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	237m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	239m NE	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)
6	240m SE	No main habitat but additional habitats present	Additional: 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

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave

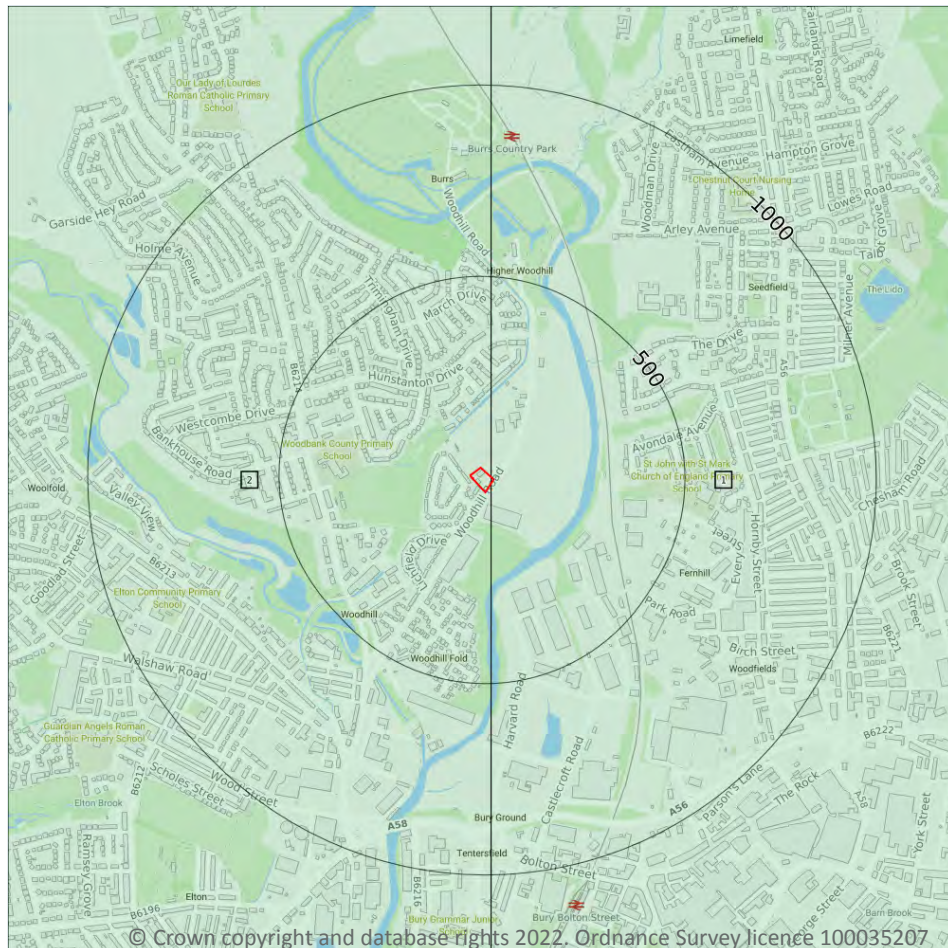


them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

2

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.

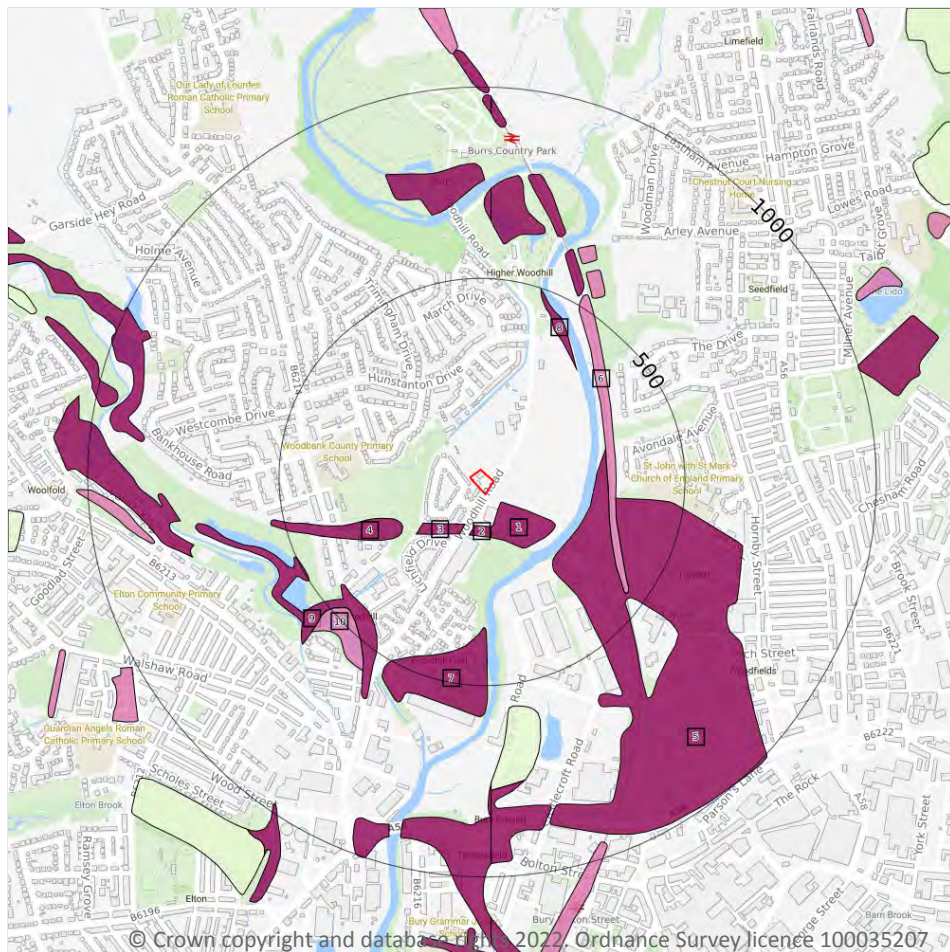
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 88**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD81SW
2	On site	Full	Full	Full	Full	SD71SE

This data is sourced from the British Geological Survey.



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



— Site Outline
Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

10

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 89**

ID	Location	LEX Code	Description	Rock description
1	46m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	83m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	95m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	217m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	242m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	298m E	WGR-VOID	Worked Ground (Undivided)	Void
7	348m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	363m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	432m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
10	466m SW	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.



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

91

ID	Location	LEX Code	Description	Rock description
5	159m W	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
6	180m SE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
7	216m SE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
8	264m N	RTD2-XSV	River Terrace Deposits, 2 - Sand And Gravel	Sand And Gravel
9	270m E	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
10	279m E	RTD2-XSV	River Terrace Deposits, 2 - Sand And Gravel	Sand And Gravel
11	366m NE	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
12	474m NE	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
13	476m NE	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
14	497m N	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

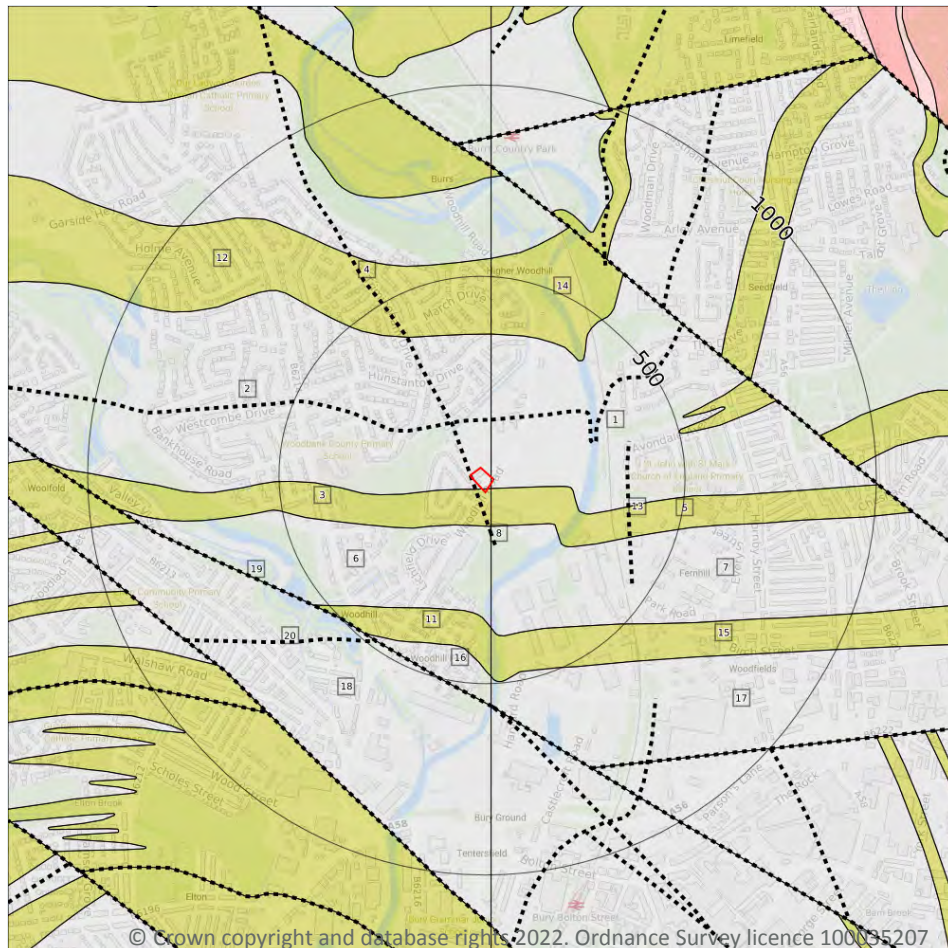
0

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

13

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 93**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
2	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
3	On site	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age



ID	Location	LEX Code	Description	Rock age
5	7m SE	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
6	88m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
7	90m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
11	314m S	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
12	349m N	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
14	350m N	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
15	355m S	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
16	408m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
17	478m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
18	480m SW	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 93**

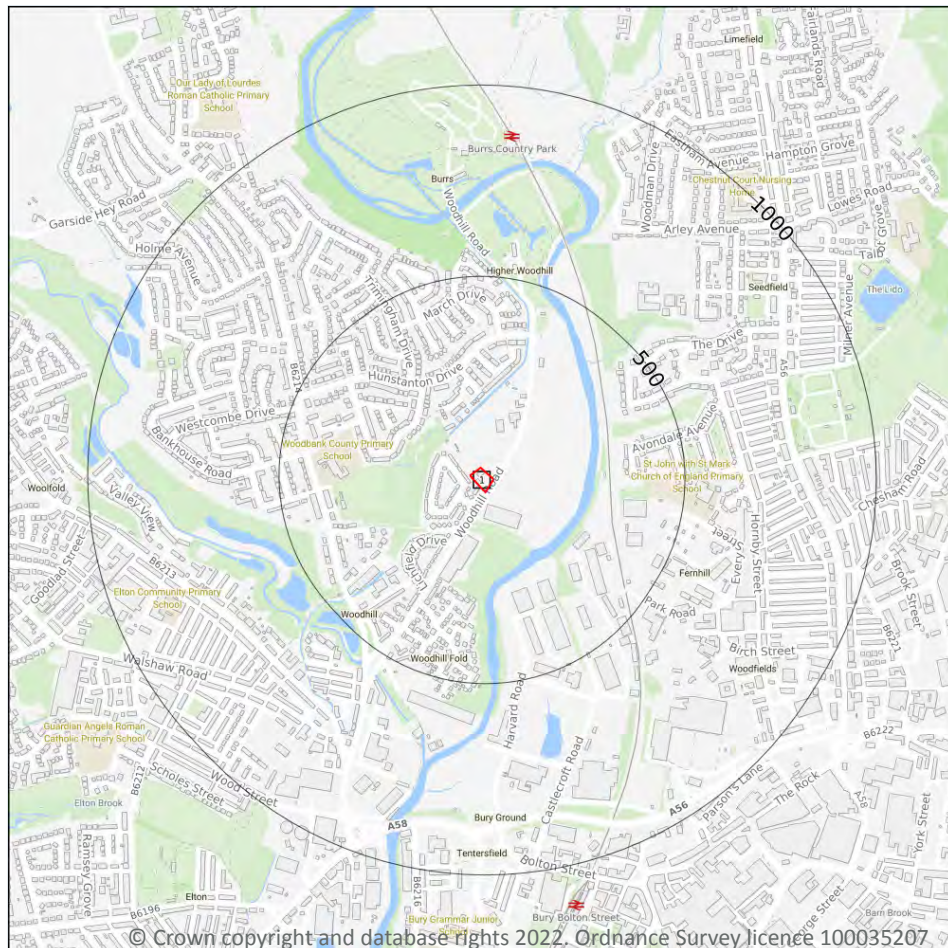
ID	Location	Category	Description
4	On site	LANDFORM	Buried channel or valley margin
8	109m S	LANDFORM	Buried channel or valley margin
9	124m N	ROCK	Coal seam, inferred
10	128m N	ROCK	Coal seam, inferred
13	350m E	LANDFORM	Buried channel or valley margin
19	480m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
20	482m SW	ROCK	Coal seam, inferred



This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

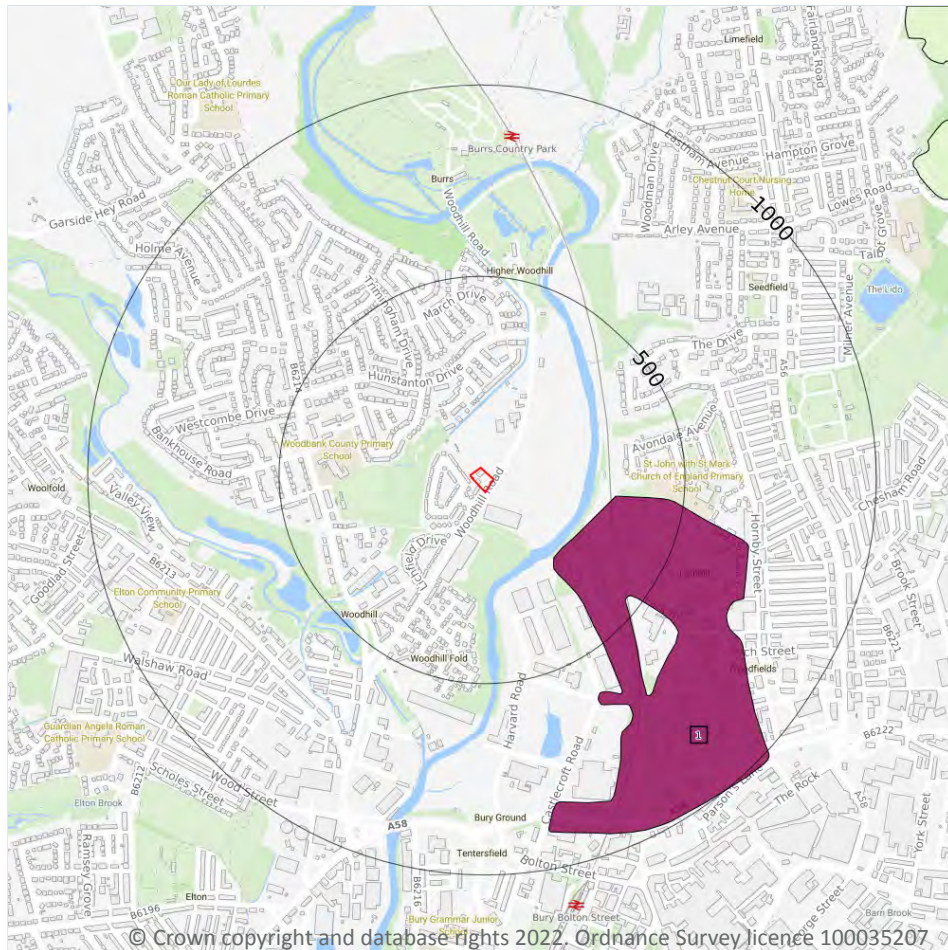
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 96**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW085_manchester_v4

This data is sourced from the British Geological Survey.



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



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

15.2 Artificial and made ground (50k)

Records within 500m

1

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 97**

ID	Location	LEX Code	Description	Rock description
1	247m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

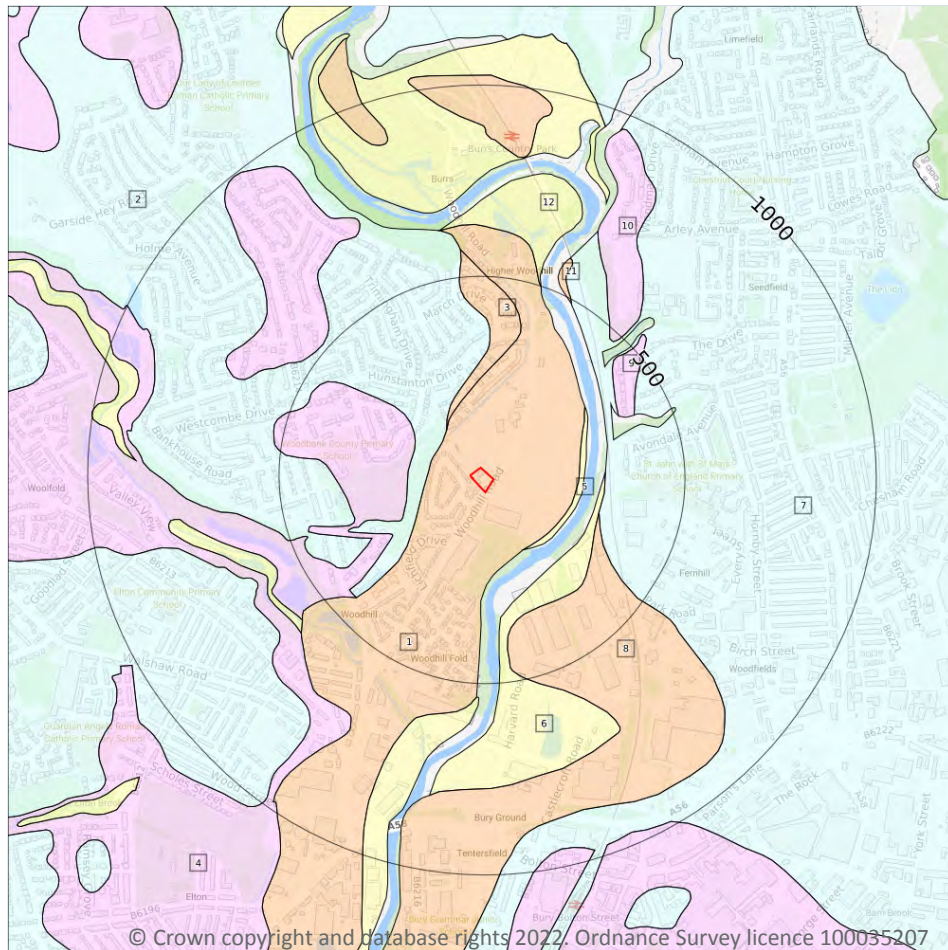
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



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

12

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 99**

ID	Location	LEX Code	Description	Rock description
1	On site	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
2	108m NW	TILLD-DMTN	TILL, DEVENSAN	DIAMICTON
3	132m NW	RTD2-XSV	RIVER TERRACE DEPOSITS, 2	SAND AND GRAVEL
4	159m W	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSAN	SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
5	180m SE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
6	259m SE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
7	288m E	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
8	288m E	RTD2-XSV	RIVER TERRACE DEPOSITS, 2	SAND AND GRAVEL
9	366m NE	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
10	476m NE	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
11	490m NE	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
12	498m N	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	2
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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	Intergranular	Very High	High
On site	Intergranular	Very High	High

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

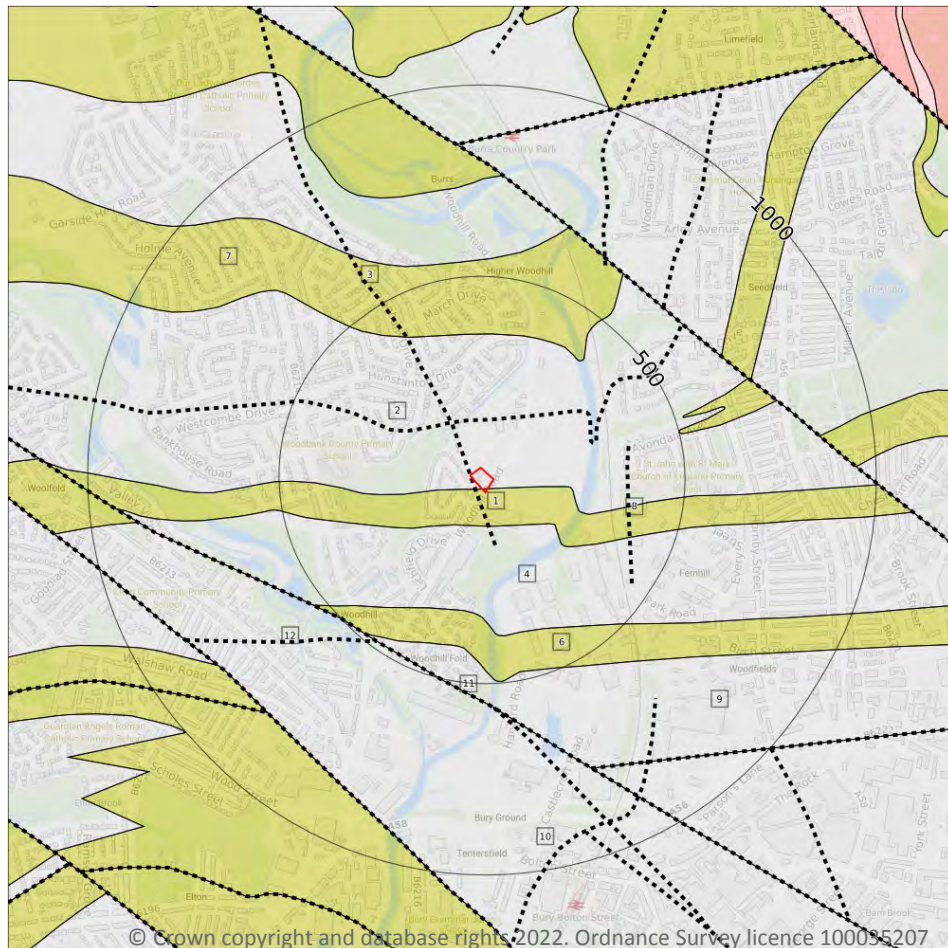
0

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

7

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 102**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
2	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
4	89m S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	314m S	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
7	349m N	OL-SDST	OLD LAWRENCE ROCK - SANDSTONE	WESTPHALIAN
9	408m S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	480m SW	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	4
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	High	Moderate
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low
7m E	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 102**

ID	Location	Category	Description
3	0m W	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley

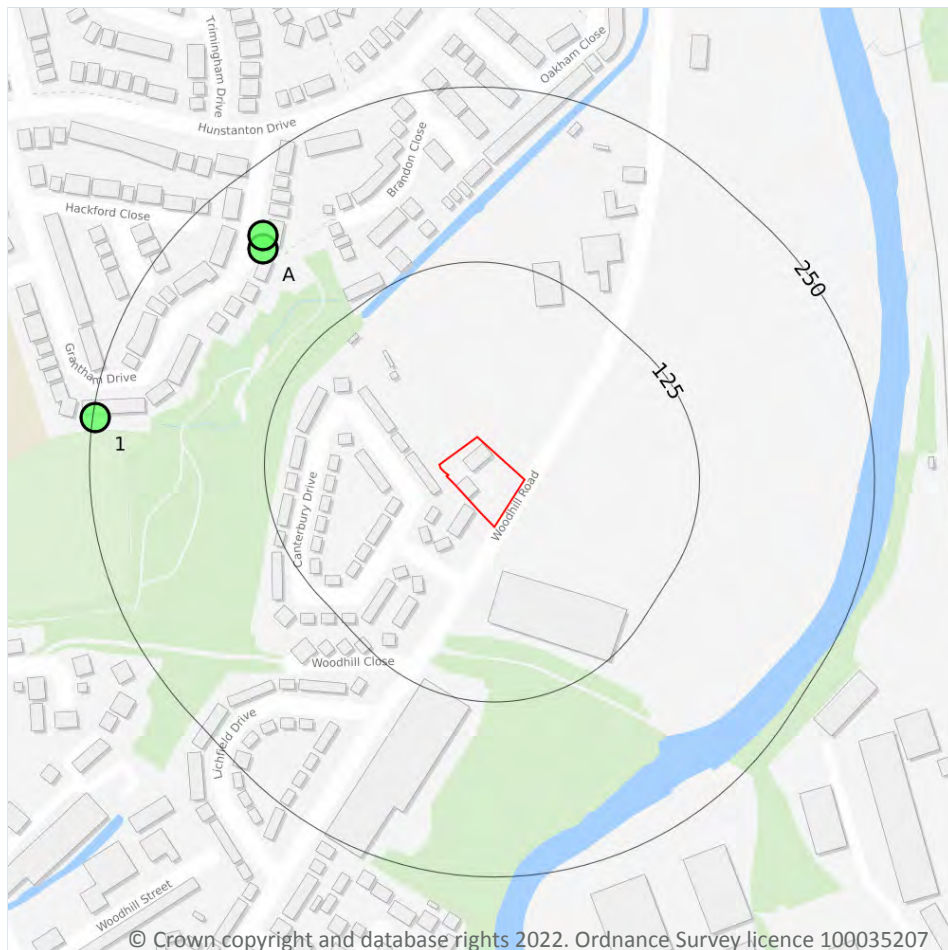


ID	Location	Category	Description
5	125m N	ROCK	Coal seam, inferred
8	350m E	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
11	480m SW	FAULT	Fault, inferred
12	482m SW	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

3

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 105**

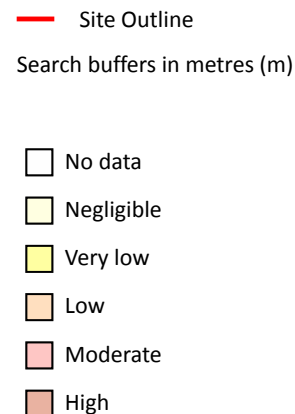
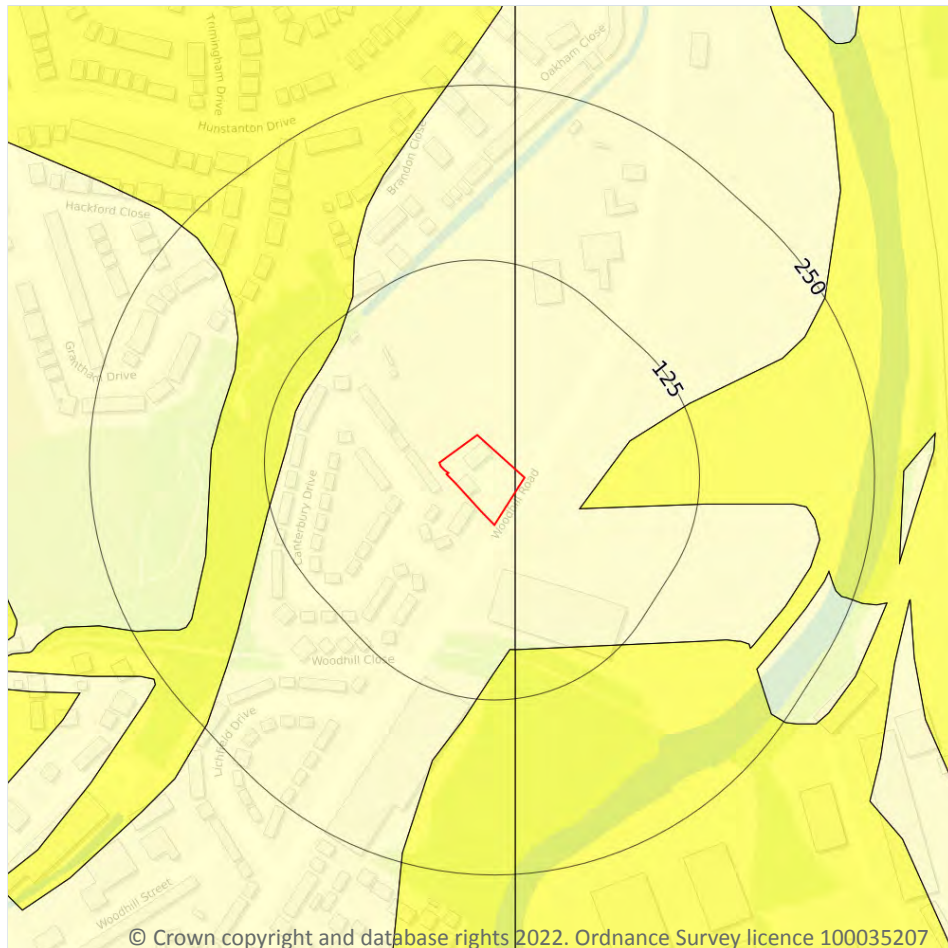
ID	Location	Grid reference	Name	Length	Confidential	Web link
A	199m NW	379820 412021	RAMSBOTTOM ROAD BURY 2	15.0	N	13325502
A	206m NW	379820 412030	RAMSBOTTOM ROAD BURY 3	14.5	N	13325505
1	248m W	379700 411900	RAMSBOTTOM ROAD BURY 1	13.15	N	13325501



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

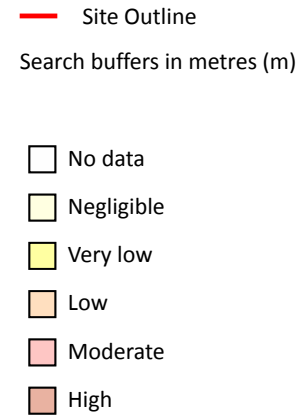
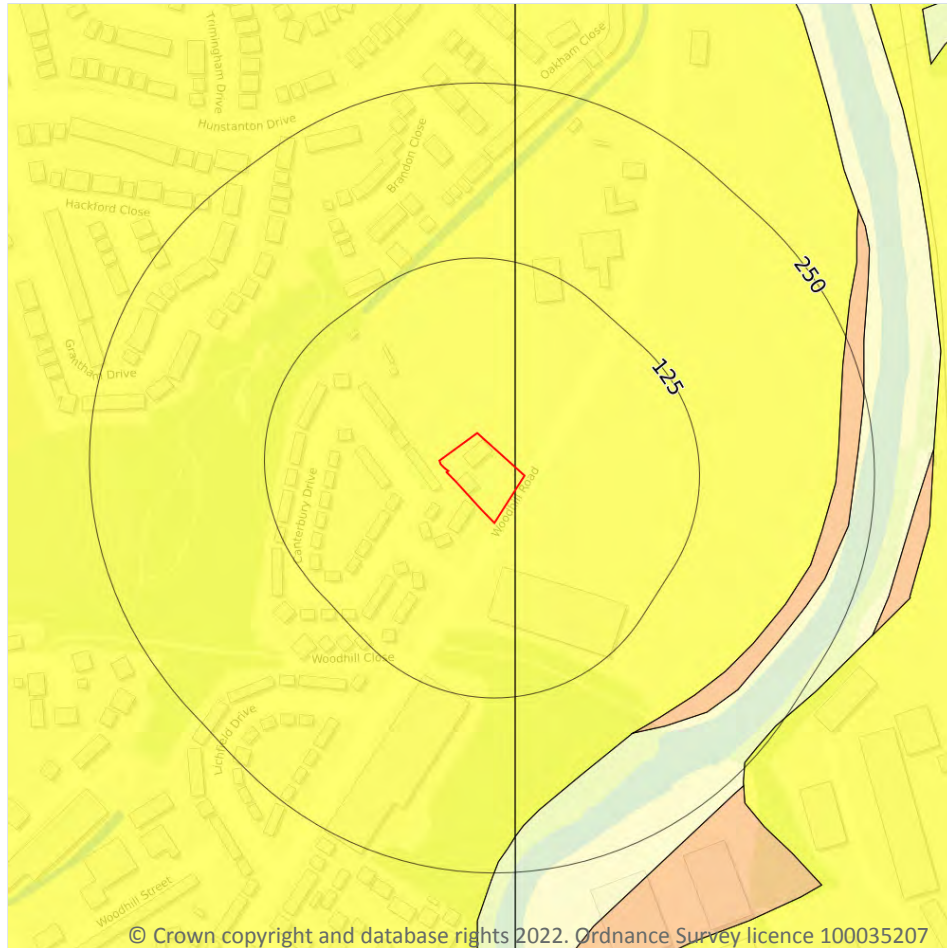
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 107**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
45m SE	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

1

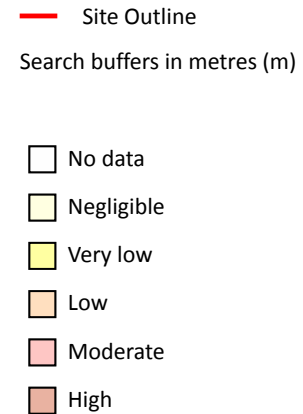
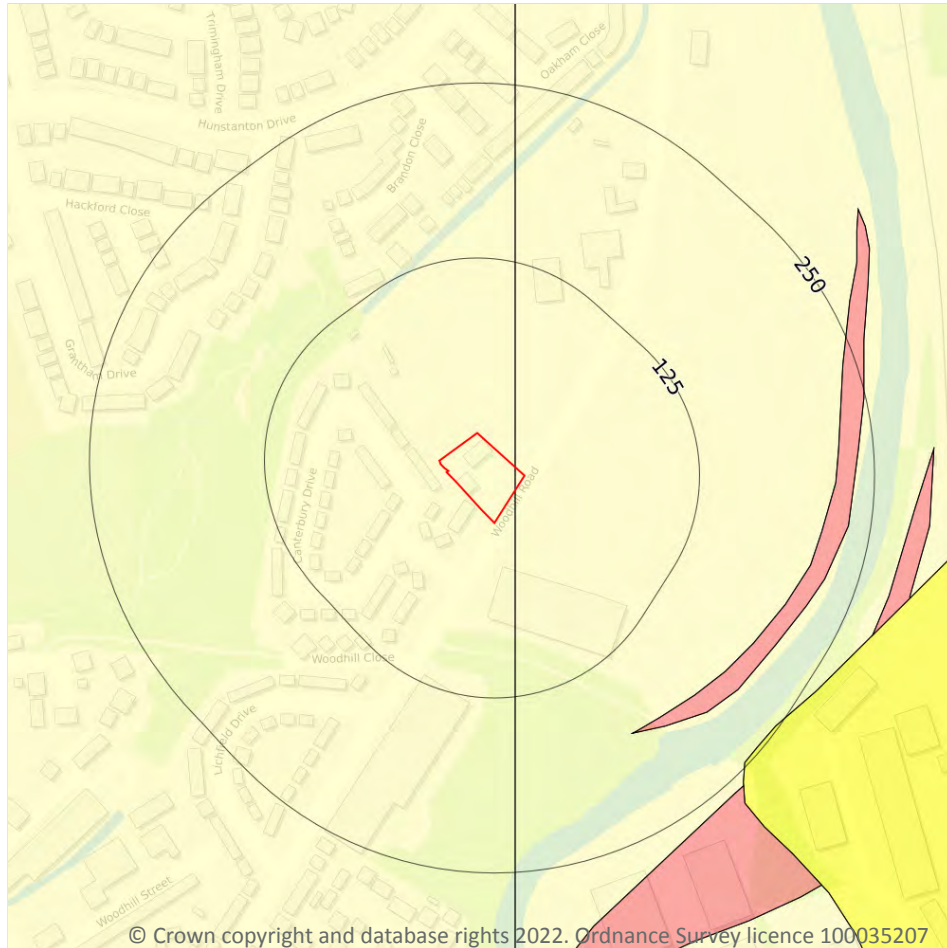
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 108**

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.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

1

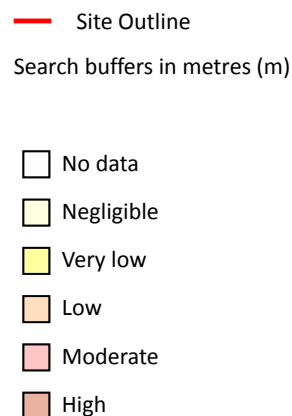
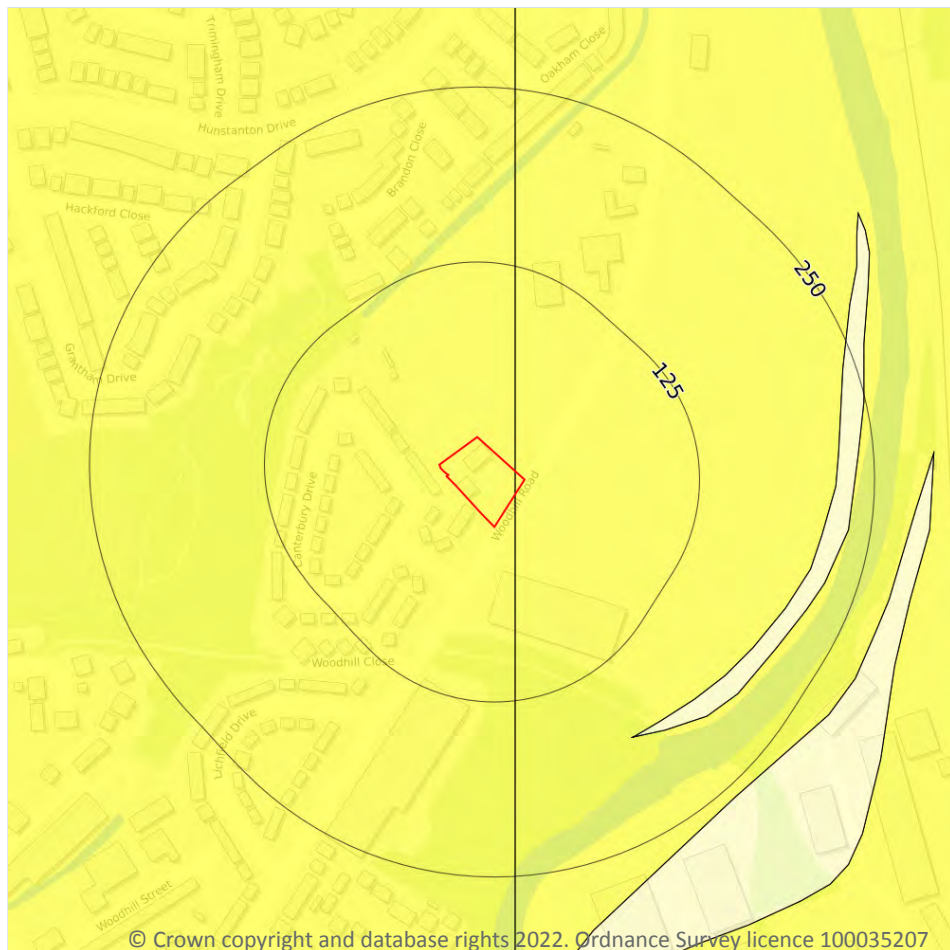
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 109**

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.

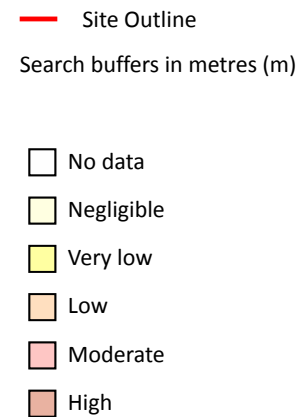
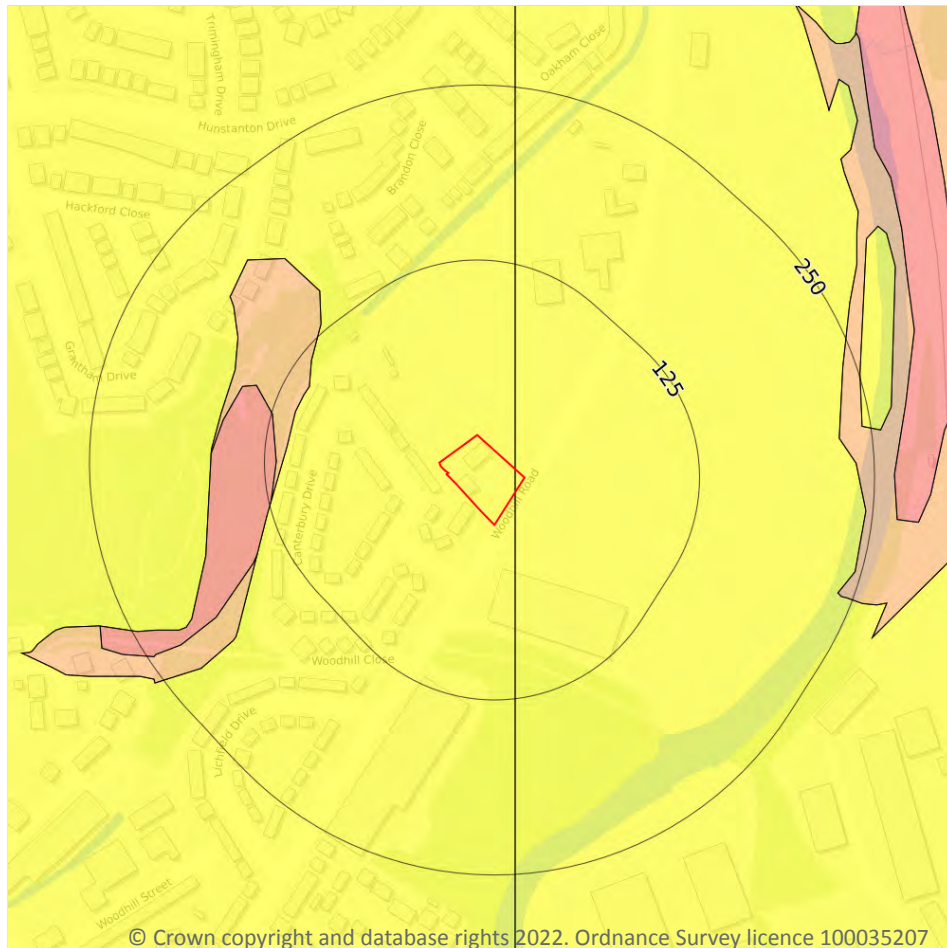
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 110**

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

1

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.

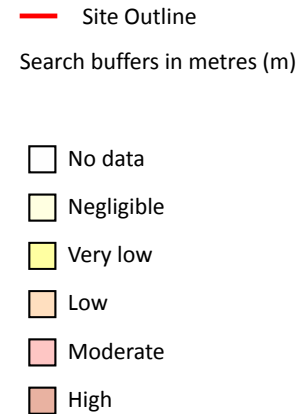
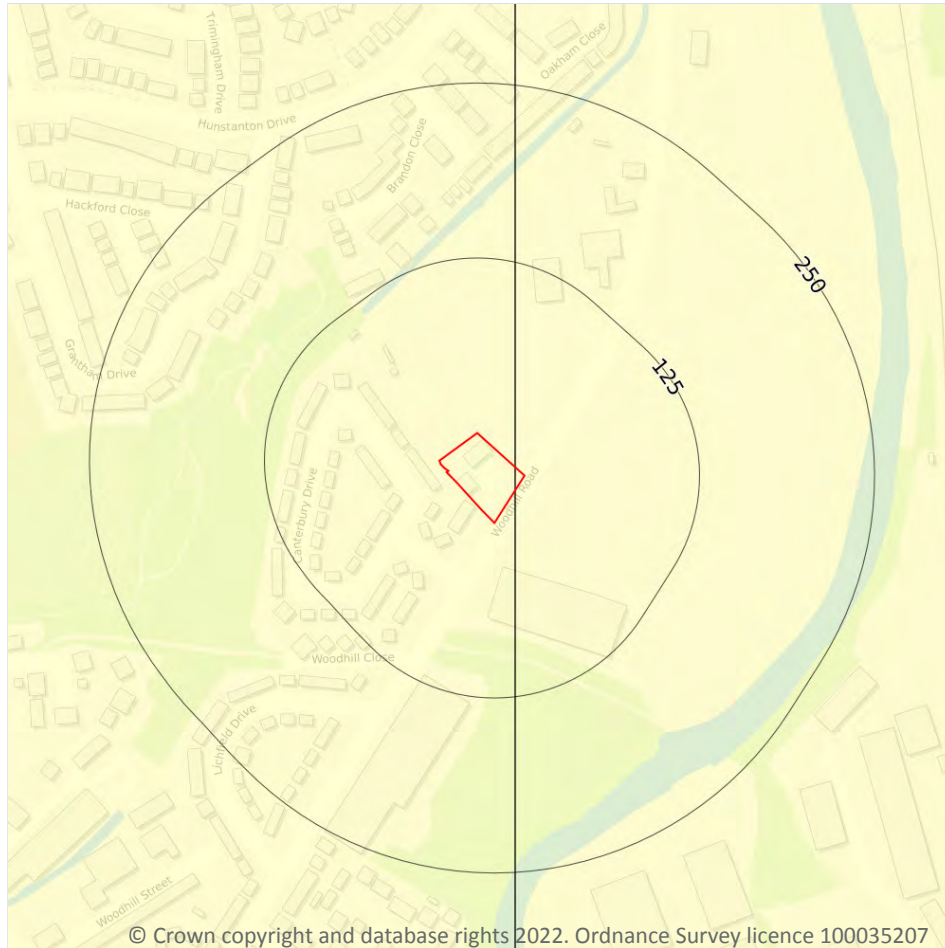
Features are displayed on the Natural ground subsidence - Landslides map on **page 111**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

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.

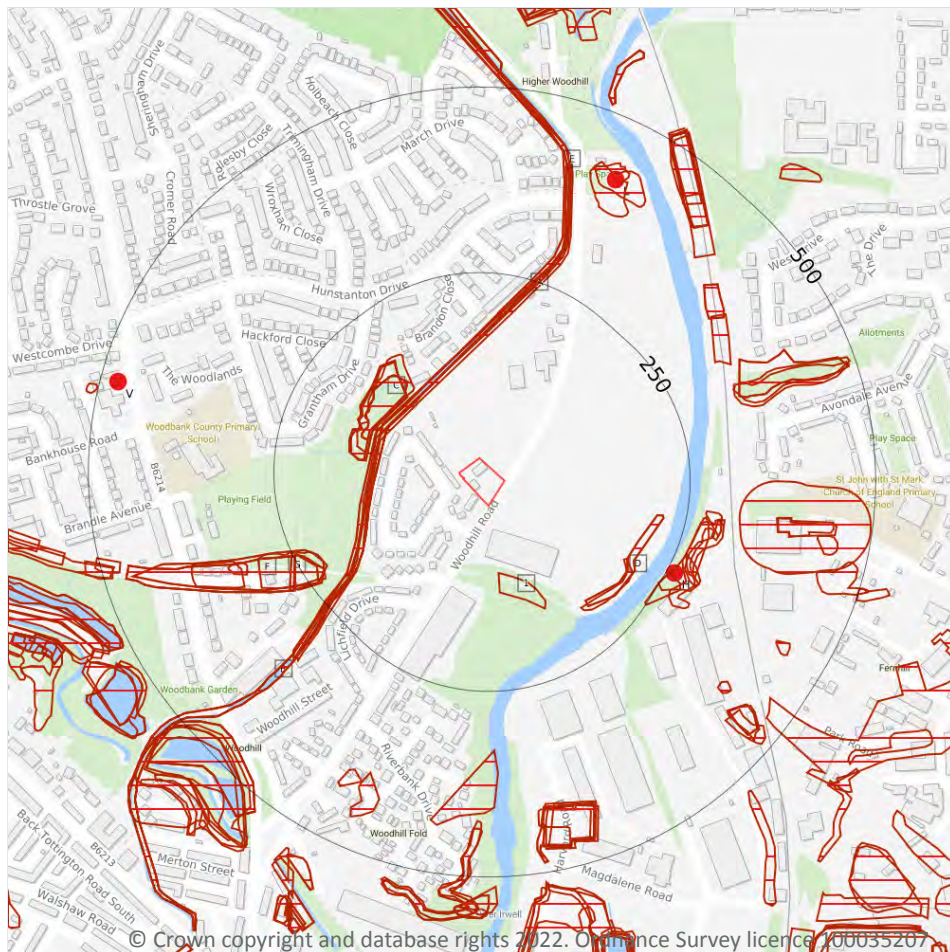
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 112**

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



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

18.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

3

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 114**

ID	Location	Details	Description
H	259m SE	Name: Fern Mill Address: Fernmill, BURY, 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	417m NE	Name: Woodlands Quarry Address: Fernmill, BURY, 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
V	475m W	Name: Woodbank Sand Pit Address: BURY, Lancashire Commodity: Sand 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

33

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 114**

ID	Location	Land Use	Year of mapping	Mapping scale
1	91m S	Unspecified Ground Workings	1983	1:10000
A	106m NW	Canal Feeder	1891	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	109m W	Canal Feeder	1980	1:10000
B	109m W	Canal Feeder	1969	1:10560
B	109m W	Canal Feeder	1974	1:10000
B	109m W	Canal Feeder	1956	1:10560
A	110m NW	Canal Feeder	1928	1:10560
A	110m NW	Canal Feeder	1908	1:10560
C	120m W	Reservoir	1956	1:10560
C	122m NW	Reservoir	1928	1:10560
C	122m NW	Reservoir	1908	1:10560
C	124m NW	Reservoir	1938	1:10560
C	124m NW	Reservoir	1891	1:10560
C	126m NW	Pond	1980	1:10000
C	126m NW	Pond	1969	1:10560
C	126m NW	Pond	1974	1:10000
D	183m SE	Unspecified Ground Workings	1983	1:10000
D	183m SE	Unspecified Ground Workings	1967	1:10560
D	186m SE	Unspecified Ground Workings	1956	1:10560
E	189m N	Canal Feeder	1956	1:10560
E	189m N	Canal Feeder	1967	1:10560
F	217m SW	Cuttings	1980	1:10000
F	217m SW	Cuttings	1974	1:10000
G	219m SW	Cuttings	1956	1:10560
G	223m SW	Cuttings	1928	1:10560
G	223m SW	Cuttings	1908	1:10560
G	229m SW	Cuttings	1938	1:10560
G	229m SW	Cuttings	1891	1:10560
H	248m SE	Unspecified Heap	1938	1:10560
F	248m SW	Cuttings	1928	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	248m SW	Cuttings	1909	1:10560
F	248m SW	Cuttings	1891	1:10560
H	249m SE	Sandstone Quarry	1851	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

0

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

This 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

0

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).

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

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

18.11 Gypsum areas

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

This data is sourced from British Gypsum.

18.12 Tin mining

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

This data is sourced from Groundsure.

18.13 Clay mining

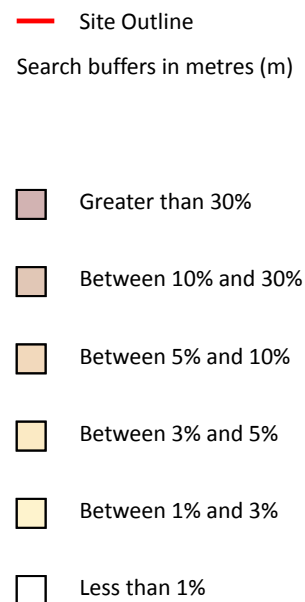
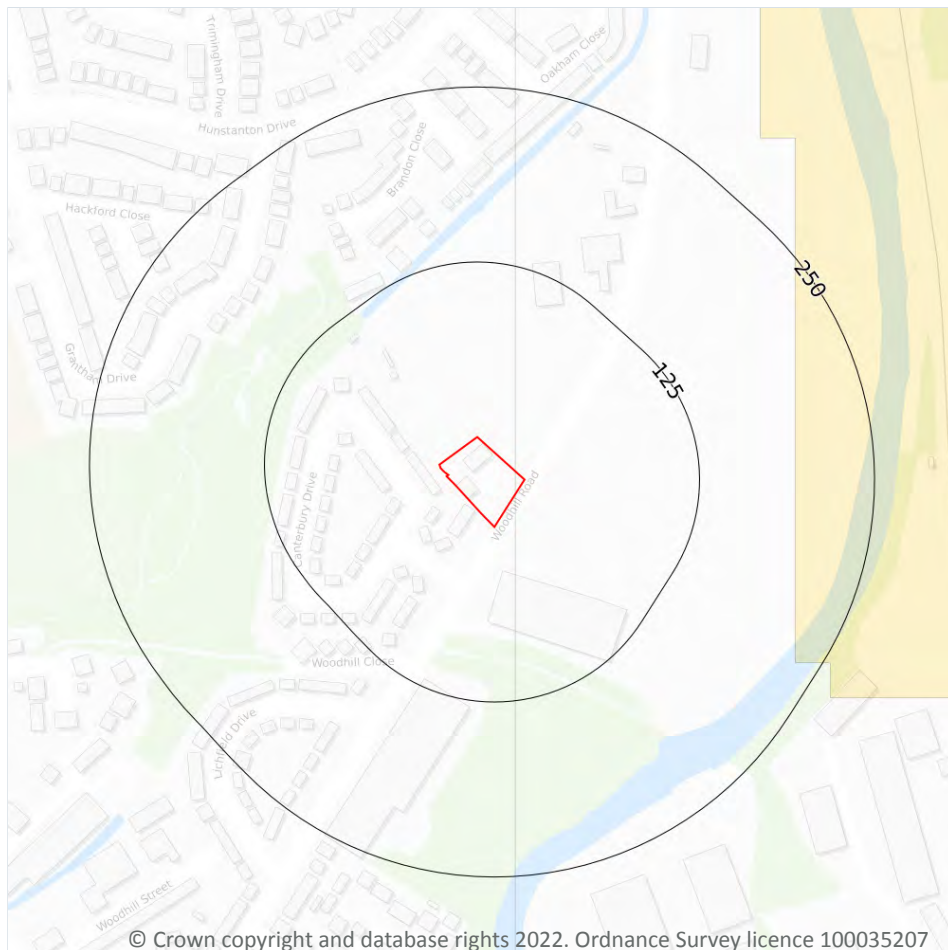
Records on site	0
-----------------	---

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 120**

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

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



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

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

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



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

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

4

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 122**

Location	Land Use	Year of mapping	Mapping scale
109m S	Railway	1910	-
109m S	Railway	1893	-
144m SE	Railway Sidings	1938	10560
241m SE	Railway Sidings	1891	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.



21.6 Historical railways

Records within 250m**4**

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 122**

Location	Description
94m S	Abandoned
95m SW	Abandoned
173m SE	Abandoned
239m SE	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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