

1, PARK AVENUE, RAMSBOTTOM, BL0 0DA

Order Details

Date: 05/04/2022
Your ref: Land_Adjacent_1_Park_Ave
Our Ref: GS-8648646
Client: Andrew Gaskell

Site Details

Location: 379905 416562
Area: 0.05 ha
Authority: [Bury Metropolitan Borough Council](#)



Summary of findings

p. 2 **Aerial image**

p. 8

OS MasterMap site plan

p.12 groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	Historical industrial land uses	0	1	12	34	-
15	1.2	Historical tanks	0	0	0	2	-
16	1.3	Historical energy features	0	0	4	8	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	0	-
17	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
18	2.1	Historical industrial land uses	0	1	21	49	-
21	2.2	Historical tanks	0	0	0	3	-
22	2.3	Historical energy features	0	0	9	12	-
23	2.4	Historical petrol stations	0	0	0	0	-
23	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
24	3.1	Active or recent landfill	0	0	0	1	-
25	3.2	Historical landfill (BGS records)	0	0	0	0	-
25	3.3	Historical landfill (LA/mapping records)	0	0	3	14	-
26	3.4	Historical landfill (EA/NRW records)	0	0	2	0	-
26	3.5	Historical waste sites	0	0	2	2	-
28	3.6	Licensed waste sites	0	0	4	0	-
29	3.7	Waste exemptions	0	0	2	34	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
33	4.1	Recent industrial land uses	0	0	2	-	-
34	4.2	Current or recent petrol stations	0	0	0	0	-
34	4.3	Electricity cables	0	0	0	0	-
34	4.4	Gas pipelines	0	0	0	0	-
34	4.5	Sites determined as Contaminated Land	0	0	0	0	-



34	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
35	4.7	Regulated explosive sites	0	0	0	0	-
35	4.8	Hazardous substance storage/usage	0	0	0	0	-
35	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
35	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	0	4	-
36	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	0	3	-
37	4.12	Radioactive Substance Authorisations	0	0	0	0	-
37	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	1	2	-
37	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
38	4.15	Pollutant release to public sewer	0	0	0	0	-
38	4.16	List 1 Dangerous Substances	0	0	0	0	-
38	4.17	List 2 Dangerous Substances	0	0	0	0	-
38	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	0	3	-
39	4.19	<u>Pollution inventory substances</u>	0	0	0	1	-
39	4.20	Pollution inventory waste transfers	0	0	0	0	-
40	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
41	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
43	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
45	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
46	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
46	5.5	Groundwater vulnerability- local information	None (within 0m)				
47	5.6	<u>Groundwater abstractions</u>	0	0	0	0	19
52	5.7	<u>Surface water abstractions</u>	0	0	0	0	36
62	5.8	Potable abstractions	0	0	0	0	0
62	5.9	Source Protection Zones	0	0	0	0	-
62	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
63	6.1	<u>Water Network (OS MasterMap)</u>	0	0	4	-	-



64	6.2	<u>Surface water features</u>	0	0	2	-	-
64	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
65	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
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	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding					
70	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
71	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	0	2
72	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
72	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
72	10.4	Special Protection Areas (SPA)	0	0	0	0	0
72	10.5	National Nature Reserves (NNR)	0	0	0	0	0
73	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
73	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	8
73	10.8	Biosphere Reserves	0	0	0	0	0
74	10.9	Forest Parks	0	0	0	0	0
74	10.10	Marine Conservation Zones	0	0	0	0	0
74	10.11	<u>Green Belt</u>	0	0	1	0	1
74	10.12	Proposed Ramsar sites	0	0	0	0	0



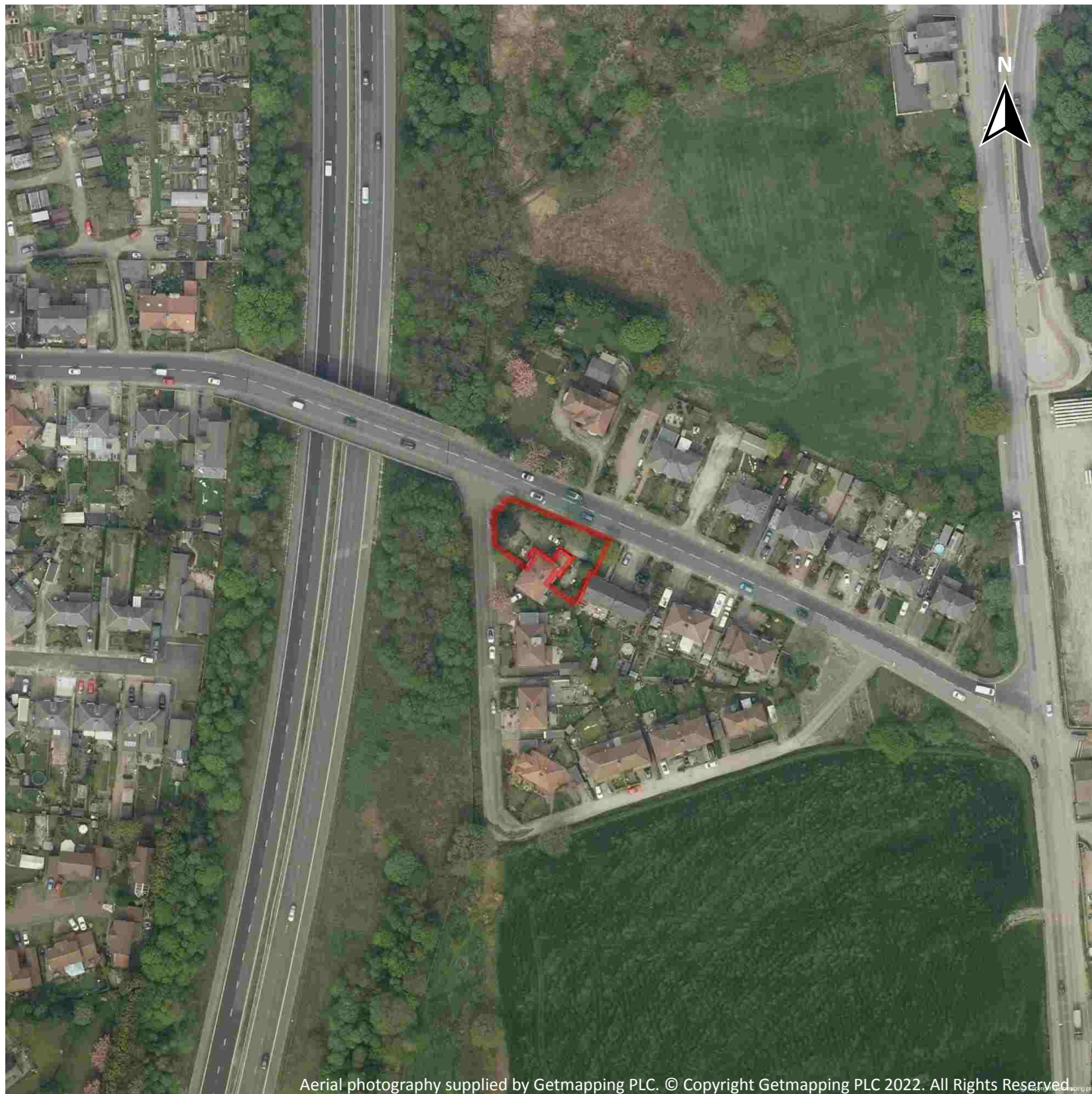
75	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
75	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
75	10.15	Nitrate Sensitive Areas	0	0	0	0	0
75	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
76	<u>10.17</u>	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
77	<u>10.18</u>	<u>SSSI Units</u>	0	0	0	0	2
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	11.4	Listed Buildings	0	0	0	-	-
80	<u>11.5</u>	<u>Conservation Areas</u>	0	0	1	-	-
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	<u>12.3</u>	<u>Tree Felling Licences</u>	0	3	8	-	-
84	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	2	7	-	-
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
87	<u>14.1</u>	<u>10k Availability</u>	Identified (within 500m)				
88	<u>14.2</u>	<u>Artificial and made ground (10k)</u>	0	1	2	4	-
90	<u>14.3</u>	<u>Superficial geology (10k)</u>	1	0	1	1	-

91	14.4	Landslip (10k)	0	0	0	0	-
92	14.5	<u>Bedrock geology (10k)</u>	1	1	8	5	-
93	14.6	<u>Bedrock faults and other linear features (10k)</u>	0	0	6	1	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
95	15.1	<u>50k Availability</u>	Identified (within 500m)				
96	15.2	<u>Artificial and made ground (50k)</u>	0	0	2	1	-
97	15.3	Artificial ground permeability (50k)	0	0	-	-	-
98	15.4	<u>Superficial geology (50k)</u>	1	0	0	1	-
99	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
99	15.6	Landslip (50k)	0	0	0	0	-
99	15.7	Landslip permeability (50k)	None (within 50m)				
100	15.8	<u>Bedrock geology (50k)</u>	1	1	5	4	-
101	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
101	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	0	4	1	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
103	16.1	<u>BGS Boreholes</u>	0	0	23	-	-
Page	Section	Natural ground subsidence					
105	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
106	17.2	<u>Running sands</u>	Very low (within 50m)				
107	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
108	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
109	17.5	<u>Landslides</u>	Low (within 50m)				
111	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
113	18.1	Natural cavities	0	0	0	0	-
114	18.2	<u>BritPits</u>	0	0	0	3	-
114	18.3	<u>Surface ground workings</u>	0	1	17	-	-
115	18.4	<u>Underground workings</u>	0	0	0	0	7
116	18.5	<u>Historical Mineral Planning Areas</u>	0	0	0	2	-



116	18.6	<u>Non-coal mining</u>	1	0	1	0	0
117	18.7	Mining cavities	0	0	0	0	0
117	18.8	JPB mining areas	None (within 0m)				
117	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)				
118	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
119	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
120	20.1	<u>BGS Estimated Background Soil Chemistry</u>	1	2	-	-	-
120	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
120	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
121	21.1	Underground railways (London)	0	0	0	-	-
121	21.2	Underground railways (Non-London)	0	0	0	-	-
122	21.3	Railway tunnels	0	0	0	-	-
122	21.4	<u>Historical railway and tunnel features</u>	0	0	4	-	-
122	21.5	Royal Mail tunnels	0	0	0	-	-
123	21.6	Historical railways	0	0	0	-	-
123	21.7	Railways	0	0	0	-	-
123	21.8	Crossrail 1	0	0	0	0	-
123	21.9	Crossrail 2	0	0	0	0	-
123	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 23/05/2019

Site Area: 0.05ha



Recent site history - 2012 aerial photograph



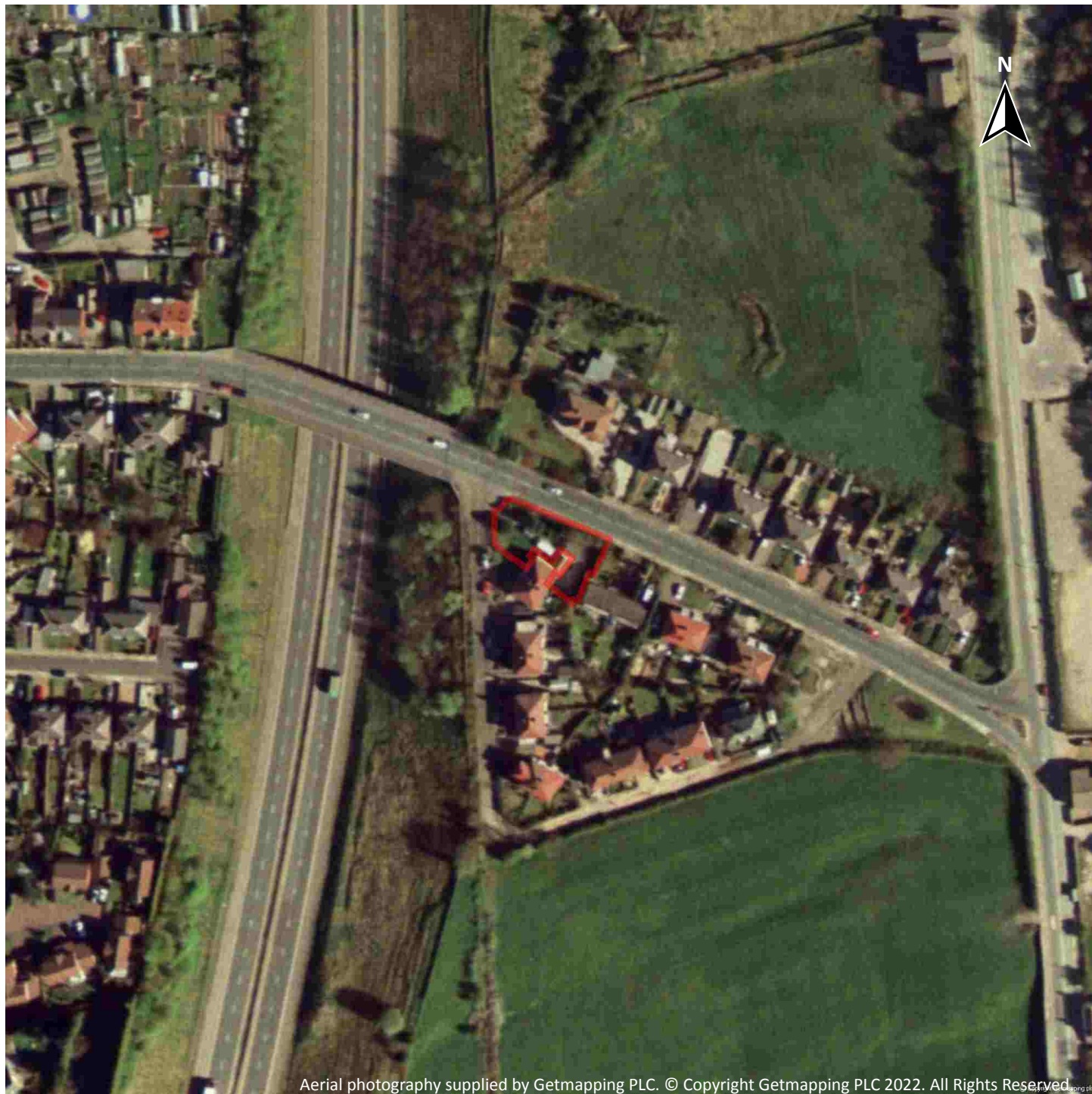
Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2022. All Rights Reserved

Capture Date: 26/03/2012

Site Area: 0.05ha



Recent site history - 2001 aerial photograph

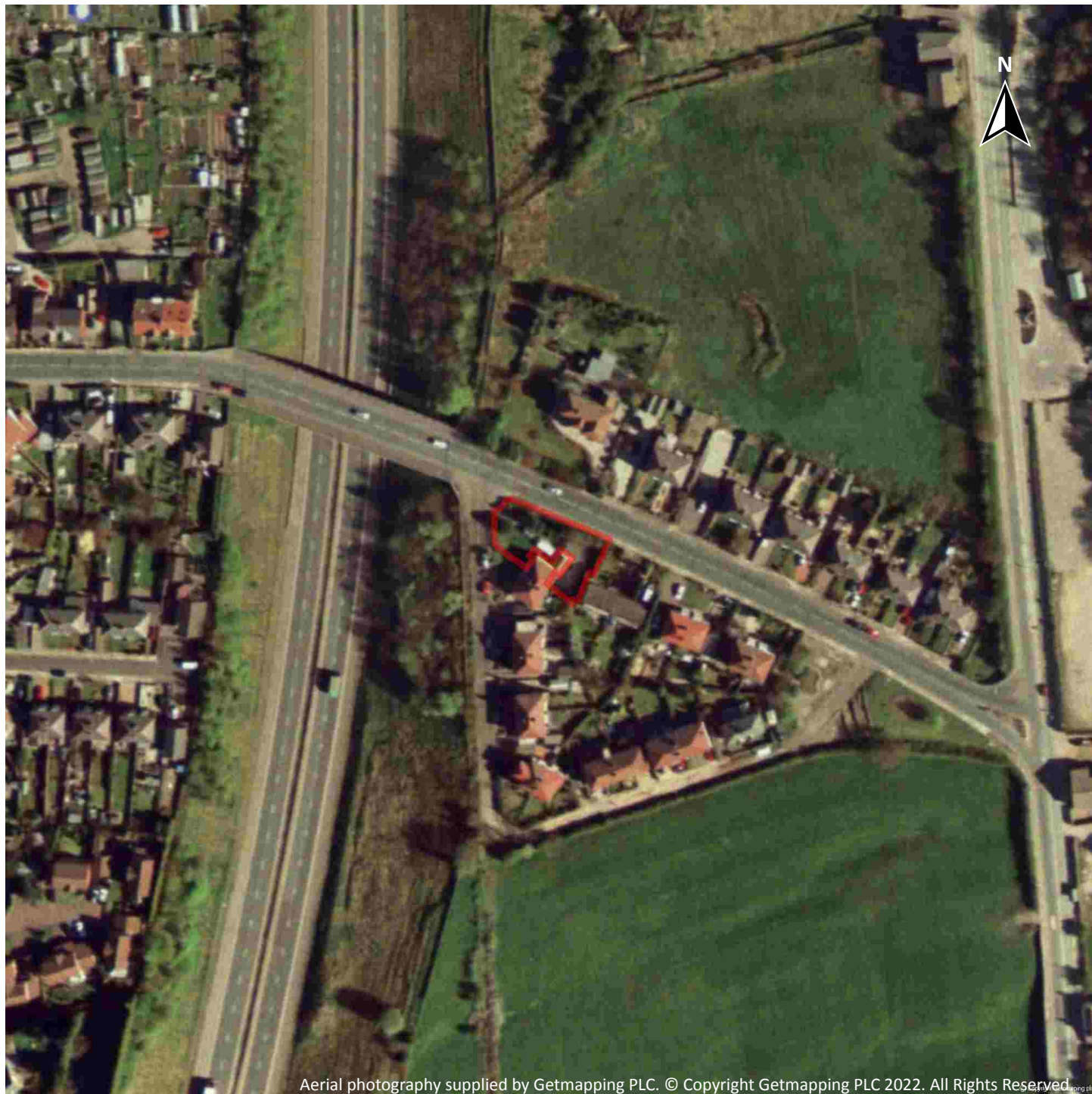


Capture Date: 07/05/2001

Site Area: 0.05ha



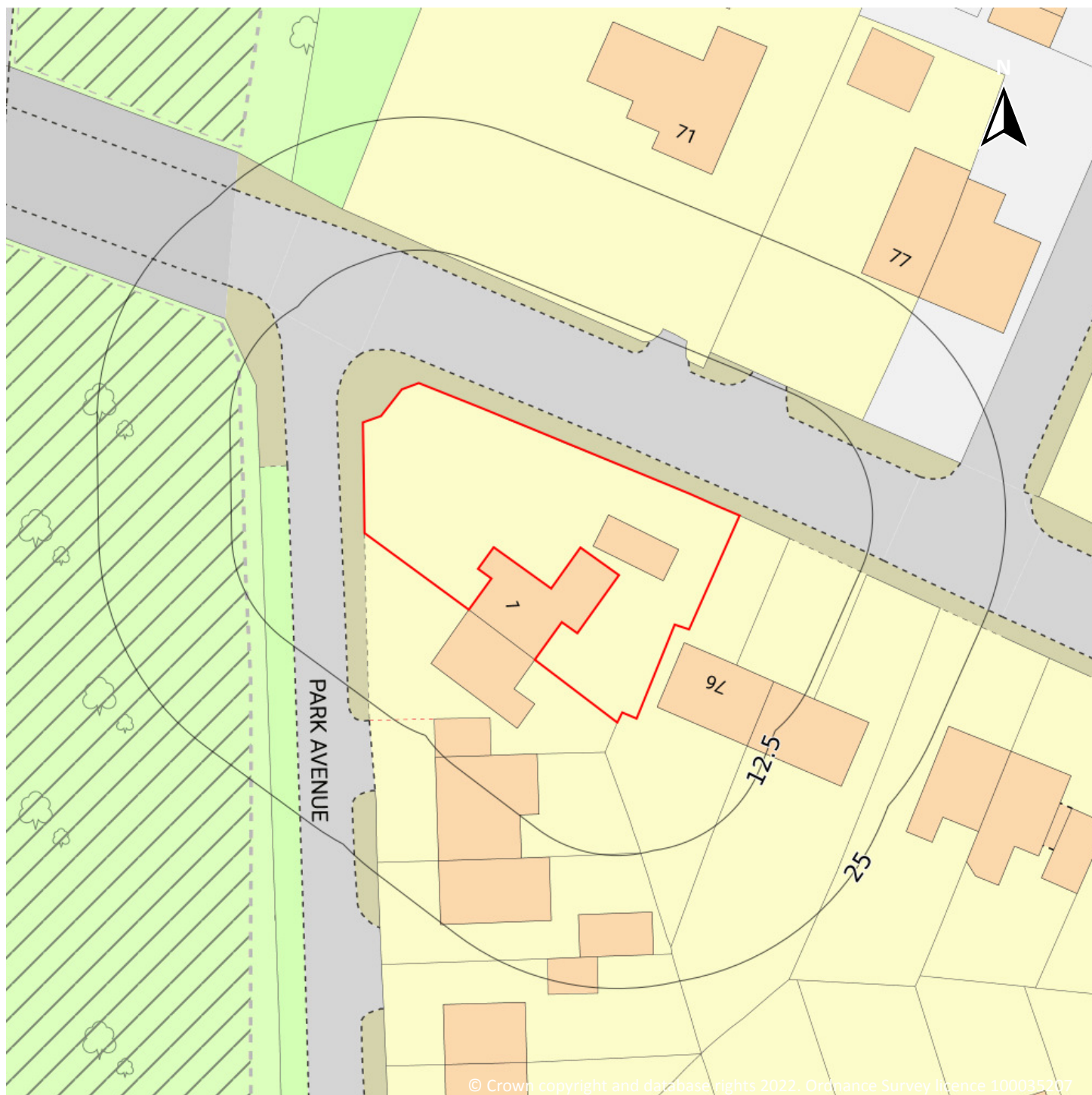
Recent site history - 2000 aerial photograph



Capture Date: 07/05/2000

Site Area: 0.05ha

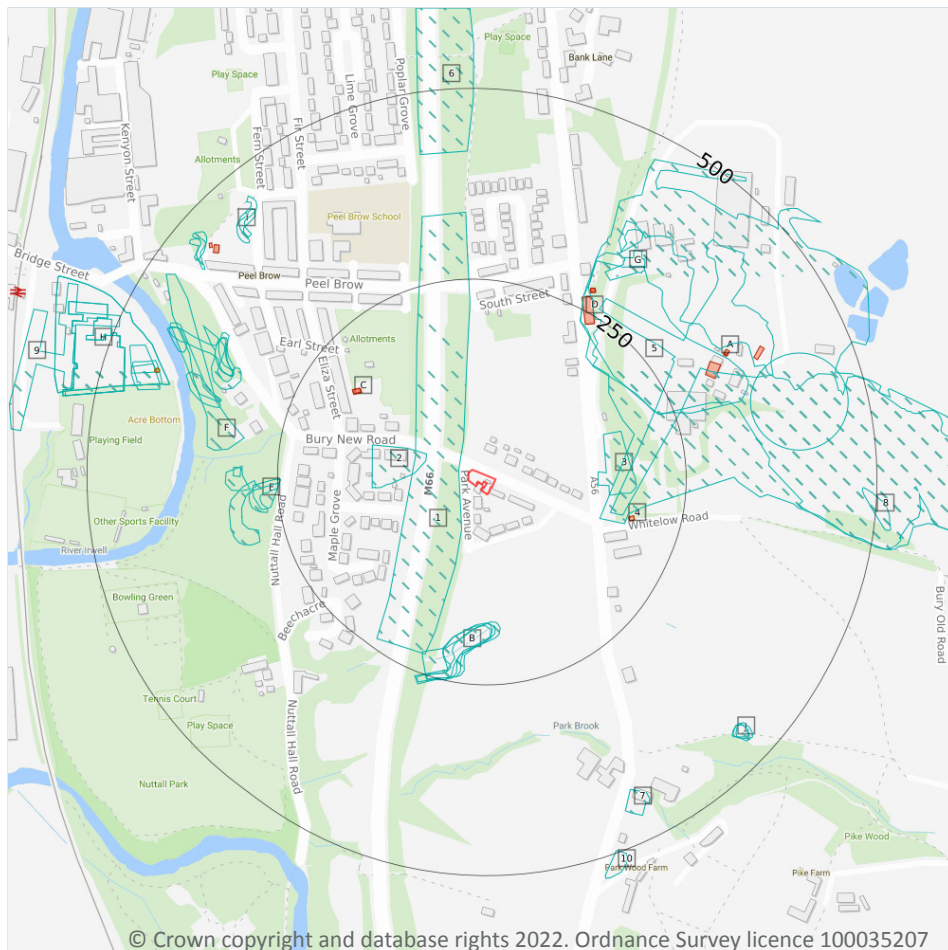
OS MasterMap site plan



Site Area: 0.05ha



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

47

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 13**

ID	Location	Land use	Dates present	Group ID
1	12m W	Cuttings	1980	642267



ID	Location	Land use	Dates present	Group ID
2	58m W	Refuse Heap	1928 - 1938	712703
3	135m E	Unspecified Works	1967 - 1987	695257
A	146m E	Unspecified Quarry	1928 - 1987	721640
A	157m E	Railway Sidings	1928 - 1938	723748
B	167m S	Unspecified Pit	1955	762340
B	169m S	Unspecified Pit	1968	697789
B	169m S	Unspecified Pit	1938	757465
B	173m S	Unspecified Pit	1928	763365
5	196m NE	Sandstone Quarry	1851	686732
A	206m NE	Unspecified Quarry	1891 - 1908	767837
E	246m W	Refuse Heap	1955	767398
E	249m W	Refuse Heap	1927 - 1948	781987
E	278m W	Refuse Heap	1968	770375
E	287m W	Old Engine	1908 - 1948	700401
F	297m W	Unspecified Ground Workings	1968	647103
E	298m W	Old Engine	1955	704771
G	301m NE	Railway Sidings	1928 - 1938	768974
F	322m W	Refuse Heap	1968	702644
F	333m NW	Refuse Heap	1927	763672
F	335m W	Refuse Heap	1948	766287
F	336m NW	Refuse Heap	1955	728825
F	337m W	Refuse Heap	1948	706712
F	338m W	Refuse Heap	1955	725366
G	341m NE	Unspecified Heap	1992	650811
A	347m E	Unspecified Quarry	1992	737080
F	404m NW	Refuse Heap	1948	715496
H	408m W	Paper Mill	1955	751994
H	408m W	Unspecified Mill	1968 - 1980	779285



ID	Location	Land use	Dates present	Group ID
I	416m NW	Unspecified Ground Workings	1927 - 1948	754595
6	417m N	Cuttings	1980	642266
F	418m W	Filter Beds	1955	698666
F	419m W	Filter Beds	1948	778079
I	422m NW	Unspecified Ground Workings	1955	755508
F	429m W	Filter Beds	1927	731285
7	430m SE	Grave Yard	1851	668099
I	436m NW	Unspecified Ground Workings	1955	785923
J	445m SE	Unspecified Pit	1928	718662
J	445m SE	Unspecified Pit	1938	761090
J	445m SE	Unspecified Pit	1949 - 1992	720982
I	451m NW	Unspecified Ground Workings	1927 - 1948	764421
H	463m W	Paper Mill	1908	699801
H	465m W	Unspecified Mill	1891	708165
H	465m W	Paper Mill	1927 - 1948	717433
8	481m E	Sandstone Quarry	1851	686731
9	496m NW	Railway Sidings	1891 - 1948	736575
10	497m S	Unspecified Pit	1967 - 1992	791186

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

2

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 13**



ID	Location	Land use	Dates present	Group ID
F	426m W	Unspecified Tank	1978	95136
F	426m W	Unspecified Tank	1992 - 1994	91136

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

12

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 13**

ID	Location	Land use	Dates present	Group ID
C	175m NW	Electricity Substation	1978 - 1992	54446
C	177m NW	Electricity Substation	1989	51973
4	182m E	Electricity Substation	1979 - 1993	54663
D	235m NE	Electricity Substation	1993	45059
D	275m NE	Electricity Substation	1979 - 1987	50925
D	276m NE	Electricity Substation	1993	54032
A	307m NE	Electricity Substation	1979 - 1987	49948
A	341m NE	Electricity Substation	1987	54292
A	341m NE	Electricity Substation	1993	49912
A	374m NE	Electricity Substation	1993	45058
I	436m NW	Electricity Substation	1978 - 1989	57061
I	447m NW	Electricity Substation	1992	45060

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.

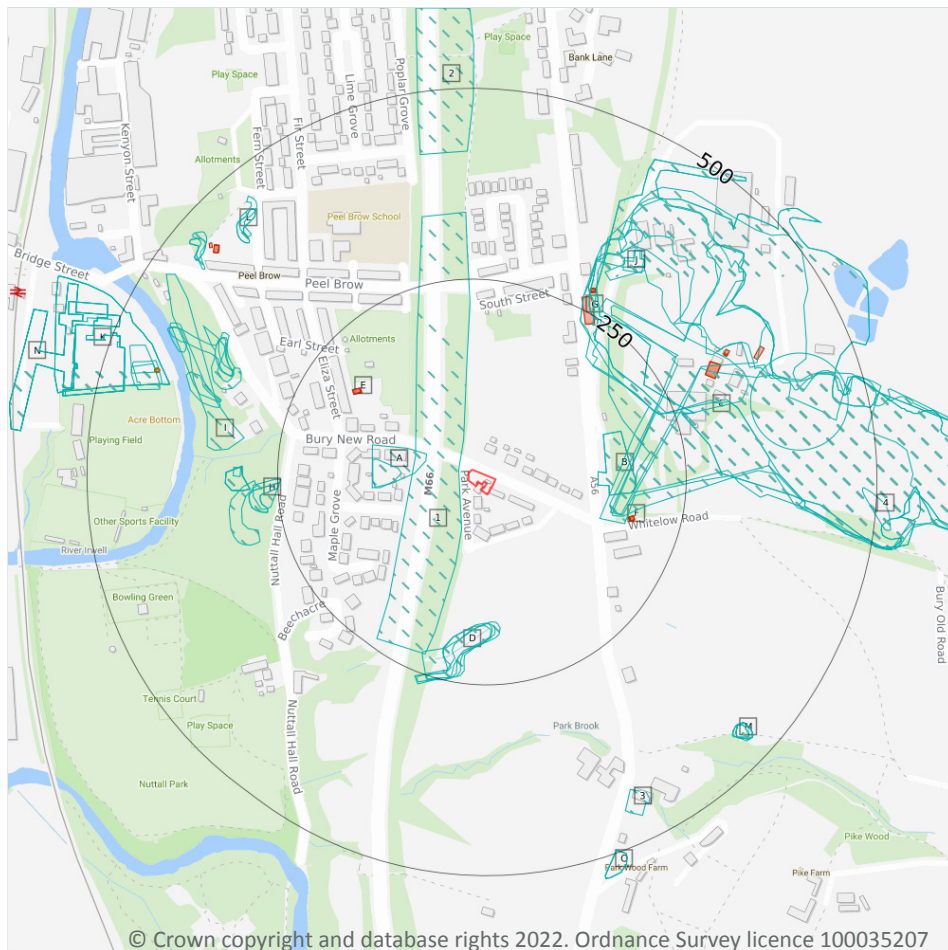
1.6 Historical military land

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

71

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 18**

ID	Location	Land Use	Date	Group ID
1	12m W	Cuttings	1980	642267
A	58m W	Refuse Heap	1928	712703
A	88m W	Refuse Heap	1938	712703

ID	Location	Land Use	Date	Group ID
B	135m E	Unspecified Works	1967	695257
B	135m E	Unspecified Works	1987	695257
C	146m E	Unspecified Quarry	1938	721640
C	153m E	Unspecified Quarry	1928	721640
C	157m E	Railway Sidings	1938	723748
C	160m E	Railway Sidings	1928	723748
D	167m S	Unspecified Pit	1955	762340
D	169m S	Unspecified Pit	1968	697789
D	169m S	Unspecified Pit	1938	757465
D	173m S	Unspecified Pit	1928	763365
C	182m E	Unspecified Quarry	1949	721640
C	196m NE	Sandstone Quarry	1851	686732
C	206m NE	Unspecified Quarry	1891	767837
C	213m NE	Unspecified Quarry	1908	767837
C	231m NE	Unspecified Quarry	1967	721640
C	231m NE	Unspecified Quarry	1987	721640
H	246m W	Refuse Heap	1955	767398
H	249m W	Refuse Heap	1948	781987
H	249m W	Refuse Heap	1927	781987
H	278m W	Refuse Heap	1968	770375
H	287m W	Old Engine	1948	700401
H	287m W	Old Engine	1927	700401
H	287m W	Old Engine	1908	700401
I	297m W	Unspecified Ground Workings	1968	647103
H	298m W	Old Engine	1955	704771
J	301m NE	Railway Sidings	1928	768974
J	321m NE	Railway Sidings	1938	768974
I	322m W	Refuse Heap	1968	702644

ID	Location	Land Use	Date	Group ID
I	333m NW	Refuse Heap	1927	763672
I	335m W	Refuse Heap	1948	766287
I	336m NW	Refuse Heap	1955	728825
I	337m W	Refuse Heap	1948	706712
I	338m W	Refuse Heap	1955	725366
J	341m NE	Unspecified Heap	1992	650811
C	347m E	Unspecified Quarry	1992	737080
I	404m NW	Refuse Heap	1948	715496
K	408m W	Unspecified Mill	1980	779285
K	408m W	Unspecified Mill	1968	779285
K	408m W	Paper Mill	1955	751994
L	416m NW	Unspecified Ground Workings	1948	754595
L	416m NW	Unspecified Ground Workings	1927	754595
2	417m N	Cuttings	1980	642266
I	418m W	Filter Beds	1955	698666
I	419m W	Filter Beds	1948	778079
L	422m NW	Unspecified Ground Workings	1955	755508
I	429m W	Filter Beds	1927	731285
3	430m SE	Grave Yard	1851	668099
L	436m NW	Unspecified Ground Workings	1955	785923
M	445m SE	Unspecified Pit	1928	718662
M	445m SE	Unspecified Pit	1938	761090
M	445m SE	Unspecified Pit	1992	720982
M	445m SE	Unspecified Pit	1967	720982
M	445m SE	Unspecified Pit	1949	720982
M	445m SE	Unspecified Pit	1987	720982
L	451m NW	Unspecified Ground Workings	1948	764421
L	451m NW	Unspecified Ground Workings	1927	764421



ID	Location	Land Use	Date	Group ID
K	463m W	Paper Mill	1908	699801
K	465m W	Paper Mill	1948	717433
K	465m W	Paper Mill	1927	717433
K	465m W	Unspecified Mill	1891	708165
4	481m E	Sandstone Quarry	1851	686731
N	496m NW	Railway Sidings	1948	736575
N	496m NW	Railway Sidings	1927	736575
N	496m NW	Railway Sidings	1908	736575
N	496m NW	Railway Sidings	1891	736575
O	497m S	Unspecified Pit	1992	791186
O	497m S	Unspecified Pit	1967	791186
O	497m S	Unspecified Pit	1987	791186

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

3

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 18**

ID	Location	Land Use	Date	Group ID
I	426m W	Unspecified Tank	1978	95136
I	426m W	Unspecified Tank	1994	91136
I	426m W	Unspecified Tank	1992	91136

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

21

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 18**

ID	Location	Land Use	Date	Group ID
E	175m NW	Electricity Substation	1992	54446
E	175m NW	Electricity Substation	1978	54446
E	177m NW	Electricity Substation	1989	51973
F	182m E	Electricity Substation	1979	54663
F	182m E	Electricity Substation	1987	54663
F	183m E	Electricity Substation	1993	54663
F	183m E	Electricity Substation	1993	54663
F	183m E	Electricity Substation	1987	54663
G	235m NE	Electricity Substation	1993	45059
G	275m NE	Electricity Substation	1979	50925
G	275m NE	Electricity Substation	1987	50925
G	275m NE	Electricity Substation	1987	50925
G	276m NE	Electricity Substation	1993	54032
C	307m NE	Electricity Substation	1979	49948
C	307m NE	Electricity Substation	1987	49948
C	341m NE	Electricity Substation	1987	54292
C	341m NE	Electricity Substation	1993	49912
C	374m NE	Electricity Substation	1993	45058
L	436m NW	Electricity Substation	1978	57061
L	437m NW	Electricity Substation	1989	57061
L	447m NW	Electricity Substation	1992	45060

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

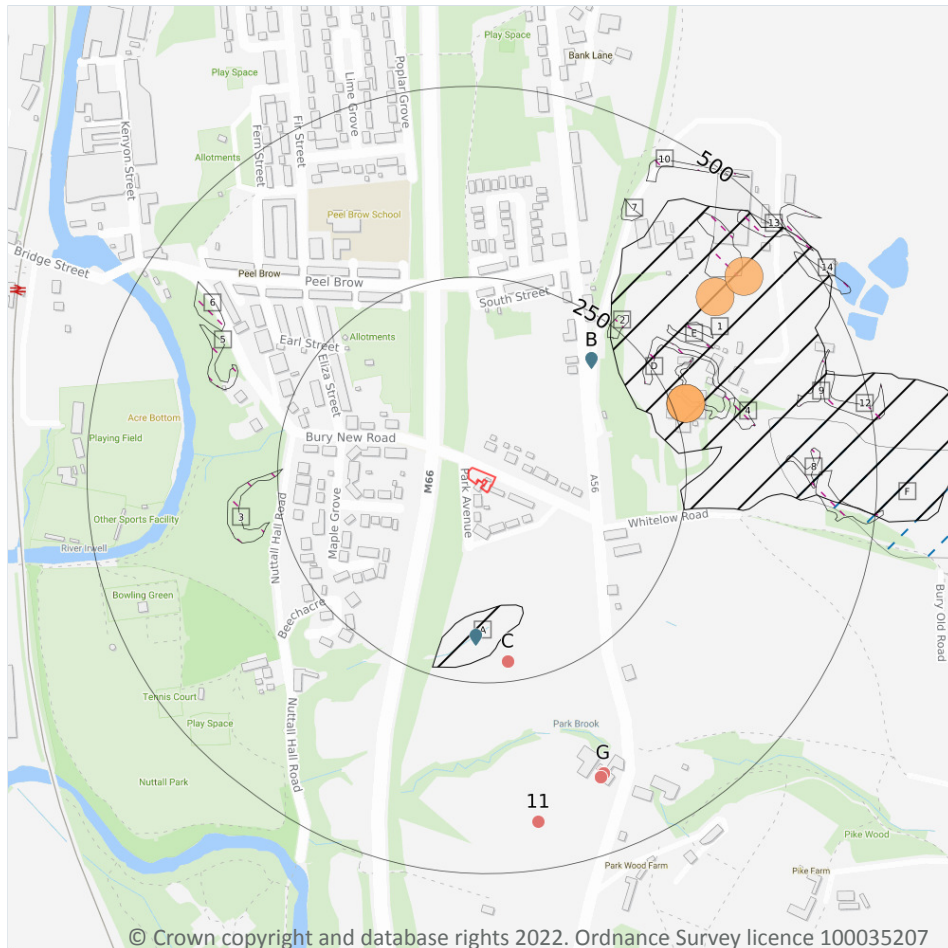
Records within 500m

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)
- Active or recent landfill
- Historical landfill (EA/NRW)
- Historical landfill (LA/OS)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

1

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on **page 24**

ID	Location	Details	
F	364m E	Operator: Marshalls Mono Ltd Site Address: Land/premises At, Fletcher Bank, Ramsbottom, Bury, Lancashire, BL0 0DD	WML Number: 53693 EPR Reference: MML001 Landfill type: A07: Industrial Waste Landfill (Factory curtilage) Status: Closure IPPC Reference: - EPR Number: EA/EPR/MP3596CS/V006



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

17

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

Features are displayed on the Waste and landfill map on **page 24**

ID	Location	Site address	Source	Data type
D	231m NE	Refuse Tip	1962 mapping	Polygon
2	235m NE	Refuse Tip	1962 mapping	Polygon
3	244m W	Refuse Tip	1962 mapping	Polygon
E	296m NE	Refuse Tip	1962 mapping	Polygon
E	317m NE	Refuse Tip	1962 mapping	Polygon
4	322m E	Refuse Tip	1962 mapping	Polygon
5	328m W	Refuse Tip	1962 mapping	Polygon
6	371m NW	Refuse Tip	1962 mapping	Polygon
7	377m NE	Refuse Tip	1962 mapping	Polygon
8	382m E	Refuse Tip	1962 mapping	Polygon
E	384m NE	Refuse Tip	1962 mapping	Polygon
9	406m E	Refuse Tip	1962 mapping	Polygon
F	420m E	Refuse Tip	1962 mapping	Polygon
10	436m NE	Refuse Tip	1962 mapping	Polygon
12	443m E	Refuse Tip	1962 mapping	Polygon
13	462m NE	Refuse Tip	1962 mapping	Polygon
14	487m NE	Refuse Tip	1962 mapping	Polygon



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

3.4 Historical landfill (EA/NRW records)

Records within 500m

2

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 24**

ID	Location	Details		
A	149m S	Site Address: Park Farm, Off Manchester Road, Ramsbottom, Greater Manchester Licence Holder Address: -	Waste Licence: Yes Site Reference: C003, RD/LIC/130/77 Waste Type: Inert, Household, Special Environmental Permitting Regulations (Waste) Reference: NR1/L/JCL001 Licence Issue: 15/06/1979 Licence Surrender: 01/07/2004	Operator: J C Lees Esquire Licence Holder: J C Lees Esquire First Recorded 30/04/1978 Last Recorded: -
1	206m NE	Site Address: Fletcher Bank Quarry, Off Whitelow Road, Fletcher Bank, Ramsbottom, Bury, Greater Manchester Licence Holder Address: -	Waste Licence: Yes Site Reference: RD/LIC/285/83, C097 Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 31/10/1983 Licence Surrender: -	Operator: - Licence Holder: Marshals Mono Limited First Recorded 31/12/1948 Last Recorded: -

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

3.5 Historical waste sites

Records within 500m

4

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 24**



ID	Location	Address	Further Details	Date
D	242m E	Site Address: Fletcher Bank Quarry, Ramsbottom, BURY, Greater Manchester, BLO 9	Type of Site: Quarry & Waste Recycling Facility Planning application reference: 43048 Description: Scheme comprises quarry extension, construction, demolition and excavation of waste landfill, a waste recycling facility and a green waste composting operation. Construction - reinforced concrete surfacing, turfing/grass site works. An application (ref 43048) for detailed planning permission was granted by Bury M.B.C. Tender details remain to be finalised. A complete breakdown of the project can be viewed at http://www.lancashire.gov.uk/environment/policyanddevelopment/planapps/nontechsummaryfletcherbank.asp Scheme is currently on hold. Data source: Historic Planning Application Data Type: Point	-
D	242m E	Site Address: Fletcher Bank Quarry, Manchester Road, Ramsbottom, BURY, Greater Manchester, BLO ODH	Type of Site: Recycling Material Building Planning application reference: 36935/00 Description: Scheme comprises the construction of a building for recycling materials. Construction - brick, internal partitions walls; insitu concrete floor; fire doors; fire alarm system fittings. An application (ref: 36935/00) for Detailed Planning permission was refused by Bury M.B.C. on 13th March 2002. Written enquiries only to Biffa Waste Services Ltd please. Data source: Historic Planning Application Data Type: Point	-
E	347m NE	Site Address: Fletcher Bank Quarry, Ramsbottom, BURY, Greater Manchester, BLO 9	Type of Site: Quarry & Waste Recycling Facility Planning application reference: 43048 Description: Scheme comprises quarry extension, construction, demolition and excavation of waste landfill, a waste recycling facility and a green waste composting operation. Construction - reinforced concrete surfacing, turfing/grass site works. An application (ref 43048) for detailed planning permission was granted by Bury M.B.C. Tender details remain to be finalised. A complete breakdown of the project can be viewed at http://www.lancashire.gov.uk/environment/policyanddevelopment/planapps/nontechsummaryfletcherbank.asp Scheme is currently on hold. Data source: Historic Planning Application Data Type: Point	-



ID	Location	Address	Further Details	Date
E	393m NE	Site Address: Fletcher Bank Works, Fletcher Bank, Ramsbottom, Bury, Greater Manchester, BLO ODD	Type of Site: Landfill Works Planning application reference: 56576 Description: Scheme comprises revised restoration for the northern part of Fletcher Bank Quarry involving the further importation of inert waste (950,000 cubic metres) up to December 2036. Data source: Historic Planning Application Data Type: Point	16/10/2013

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

3.6 Licensed waste sites

Records within 500m	4
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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 24**

ID	Location	Details		
A	190m S	Site Name: Park Farm Landfill Site Site Address: Manchester Road, Ramsbottom, Bury, BLO Correspondence Address: Park Farm, Manchester Road, Ramsbottom, Bury, BLO	Type of Site: Landfill taking Non-Biodegradable Wastes Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: JCL001 EPR reference: - Operator: Lees Mr J C Waste Management licence No: 53922 Annual Tonnage: 0	Issue Date: 15/06/1979 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	190m S	Site Name: Park Farm Landfill Site Site Address: Manchester Road, Ramsbottom, Bury, Lancashire, BLO Correspondence Address: -	Type of Site: Other Landfill Site taking Special Waste Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JCL001 EPR reference: EA/EPR/BP3491CL/S002 Operator: Lees Mr J C Waste Management licence No: 53922 Annual Tonnage: 150000	Issue Date: 15/06/1979 Effective Date: - Modified: - Surrendered Date: Jul 1 2004 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered



ID	Location	Details		
B	198m NE	Site Name: Fletcher Bank Quarry Site Address: Fletcher Bank, Manchester Road, Shuttleworth, Ramsbottom, BLO ODD Correspondence Address: -	Type of Site: Management of inert or extractive waste at mine Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MAR237 EPR reference: EA/EPR/YP3490VR/A001 Operator: Marshalls Mono Limited Waste Management licence No: 102818 Annual Tonnage: 0	Issue Date: 21/06/2011 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	198m NE	Site Name: Fletcher Bank Quarry Site Address: Fletcher Bank, Manchester Road, Shuttleworth, Ramsbottom, Lancashire, BLO ODD Correspondence Address: -	Type of Site: Management of inert or extractive waste at mine Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MAR237 EPR reference: EA/EPR/YP3490VR/A001 Operator: Marshalls Mono Ltd Waste Management licence No: 102818 Annual Tonnage: 0	Issue Date: 21/06/2011 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	36
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 24**

ID	Location	Site	Reference	Category	Sub-Category	Description
C	224m S	-	WEX227069	Storing waste exemption	On a farm	Storage of sludge
C	224m S	Park Farm Walmersley BL9 5NP	EPR/SE5943ZK /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge



ID	Location	Site	Reference	Category	Sub-Category	Description
G	398m S	Park Farm Walmersley BL9 5NP	EPR/PH0575LE /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
G	398m S	Park Farm Walmersley BL9 5NP	EPR/PH0575LE /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Disposal by incineration
G	398m S	Park Farm Walmersley BL9 5NP	EPR/PH0575LE /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
G	398m S	Park Farm Walmersley BL9 5NP	EPR/PH0575LE /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Preparatory treatments (baling, sorting, shredding etc)
G	398m S	Park Farm Walmersley BL9 5NP	EPR/PH0575LE /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
G	398m S	Park Farm Walmersley BL9 5NP	EPR/PH0575LE /A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
G	398m S	Park Farm Walmersley BL9 5NP	EPR/PH0575LE /A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit
G	398m S	Park Farm Walmersley BL9 5NP	EPR/PH0575LE /A001	Using waste exemption	Both agricultural and non-agricultural waste	Incorporation of ash into soil
G	398m S	Park Farm Walmersley BL9 5NP	EPR/PH0575LE /A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance



ID	Location	Site	Reference	Category	Sub-Category	Description
G	399m S	Park Farm, Walmsley, Bury, BL9 5NP	WEX138518	Using waste exemption	On a farm	Use of waste for a specified purpose
G	399m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX144568	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
G	399m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX144568	Using waste exemption	On a farm	Use of waste for a specified purpose
G	399m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX144568	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
G	399m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX144568	Disposing of waste exemption	On a farm	Burning waste in the open
G	399m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX144568	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
G	399m S	Park Farm, Walmsersely, Bury, Lancashire, BL9 5NP	WEX079414	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
G	399m S	Park Farm, Walmsersely, Bury, Lancashire, BL9 5NP	WEX079414	Using waste exemption	On a farm	Use of waste for a specified purpose
G	399m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX010300	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
G	399m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX010300	Disposing of waste exemption	On a farm	Disposal by incineration
G	399m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX010300	Disposing of waste exemption	On a farm	Burning waste in the open
G	399m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX010300	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
G	399m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX010300	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
G	399m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX010300	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit

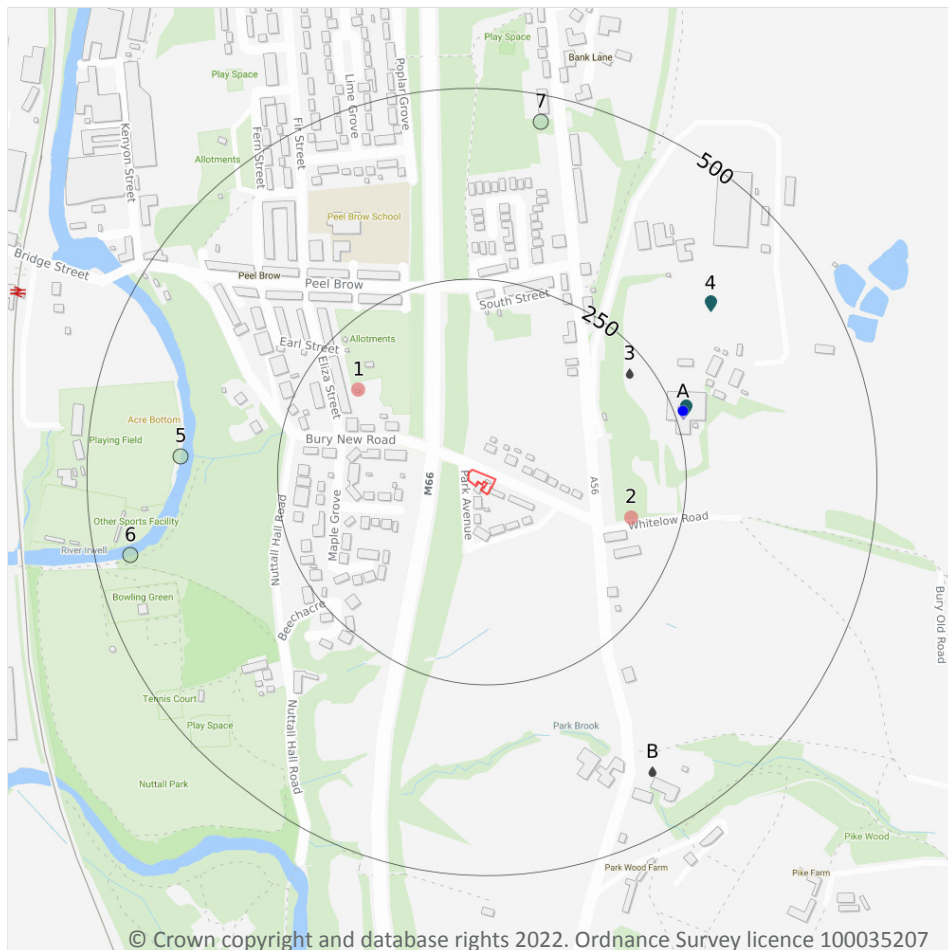


ID	Location	Site	Reference	Category	Sub-Category	Description
G	399m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX010300	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
G	399m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX010300	Using waste exemption	On a farm	Incorporation of ash into soil
G	399m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX010300	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
G	402m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX241405	Using waste exemption	On a farm	Use of waste in construction
G	402m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX290033	Using waste exemption	On a farm	Use of waste for a specified purpose
G	402m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX171578	Storing waste exemption	On a farm	Storage of waste in a secure place
G	402m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX171578	Disposing of waste exemption	On a farm	Burning waste in the open
G	402m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX171578	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
G	402m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX171578	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
G	402m S	206-210, MANCHESTER ROAD, WALMERSLEY, BURY, BL9 5NP	WEX171578	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
11	437m S	Park Farm Walmersley BL9 5NP	EPR/SE5843ZX /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge

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
- Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)
- Pollution inventory substances

4.1 Recent industrial land uses

Records within 250m

2

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 33**

ID	Location	Company	Address	Activity	Category
1	180m NW	Electricity Sub Station	Greater Manchester, BL0	Electrical Features	Infrastructure and Facilities
2	184m E	Electricity Sub Station	Greater Manchester, BL0	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.



4.2 Current or recent petrol stations

Records within 500m	0
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Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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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
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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 33**

ID	Location	Details	
A	261m E	Operator: CHURCHILL ENVIRO LTD Installation Name: FLETCHER BANK LANDFILL EPR/GP3733FE Process: WASTE LANDFILLING; ANY OTHER LANDFILL TO WHICH THE 2002 LANDFILL REGULATIONS APPLY Permit Number: GP3733FE Original Permit Number: GP3733FE	EPR Reference: - Issue Date: 21/03/2011 Effective Date: 21/03/2011 Last date noted as effective: 01/01/2022 Status: TRANSFER EFFECTIVE

ID	Location	Details	
A	261m E	Operator: CHURCHILL ENVIRO LTD Installation Name: FLETCHER BANK QUARRY LANDFILL SITE EPR/GP3733FE Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: KP3539WD Original Permit Number: GP3733FE	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/01/2022 Status: DETERMINATION
A	261m E	Operator: MARSHALLS MONO LTD Installation Name: FLETCHER BANK LANDFILL SITE Process: WASTE LANDFILLING; ANY OTHER LANDFILL TO WHICH THE 2002 LANDFILL REGULATIONS APPLY Permit Number: DP3638ST Original Permit Number: DP3638ST	EPR Reference: - Issue Date: 08/03/2007 Effective Date: 08/03/2007 Last date noted as effective: 01/08/2019 Status: SUPERCEDED
A	261m E	Operator: MARSHALLS MONO LTD Installation Name: FLETCHER BANK LANDFILL SITE Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: DP3638ST Original Permit Number: DP3638ST	EPR Reference: - Issue Date: 08/03/2007 Effective Date: 08/03/2007 Last date noted as effective: 01/01/2022 Status: SUPERCEDED

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 33**

ID	Location	Address	Details	
A	266m E	Marshalls Mono, Fletcher Bank Quarry, Manchester Road, Ramsbottom, BLO ODD	Process: Quarry Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
A	266m E	Marshalls Mono, Fletcher Bank Works, Manchester Road, Ramsbottom, BLO ODD	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
4	363m NE	Premier Mortars, Fletcher Bank Quarry, Manchester Road, Ramsbottom, BLO ODD	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

3

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 33**

ID	Location	Address	Details	
3	223m NE	FLETCHER BANK, RAMSBOTTOM, LANCASHIRE, BLO ODD	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016992570 Permit Version: 1 Receiving Water: TRIB OF RIVER IRWELL	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 21/07/1993 Revocation Date: -
B	423m SE	PARK CHAPEL, MANCHESTER ROAD, RAMSBOTTOM, BURY	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016993937 Permit Version: 2 Receiving Water: GROUNDWATER VIA SOAKAWAY	Status: REVOKED - UNSPECIFIED Issue date: 30/11/2012 Effective Date: 30/11/2012 Revocation Date: 03/04/2014
B	423m SE	PARK CHAPEL, MANCHESTER ROAD, RAMSBOTTOM, BURY	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016993937 Permit Version: 1 Receiving Water: GROUNDWATER VIA SOAKAWAY	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 31/08/2007 Effective Date: 31/08/2007 Revocation Date: 29/11/2012

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

3

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 33**

ID	Location	Details	
5	377m W	Incident Date: 17/04/2002 Incident Identification: 72361 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
6	453m W	Incident Date: 15/04/2002 Incident Identification: 71682 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
7	464m N	Incident Date: 25/09/2002 Incident Identification: 110419 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 3 (Minor)

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

4.19 Pollution inventory substances

Records within 500m	1
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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.

Features are displayed on the Current industrial land use map on **page 33**

ID: A, Location: 261m E, Permit: GP3733FE
 Operator: Churchill Enviro Ltd
 Activity: WASTE LANDFILLING; ANY OTHER LANDFILL TO WHICH THE 2002 LANDFILL REGULATIONS APPLY
 Address: Fletcher Bank Landfill, Fletcher Bank Quarry Fletcher Bank Ramsbottom Lancashire BLO ODD
 Sector: Landfill, Sub-sector: Non Hazardous Landfill
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon dioxide	10000000kg	Below Reporting Threshold
Air	Carbon monoxide	100000kg	Below Reporting Threshold
Air	Nitrous oxide	10000kg	Below Reporting Threshold

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

4.20 Pollution inventory waste transfers

Records within 500m	0
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The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

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



4.21 Pollution inventory radioactive waste

Records within 500m

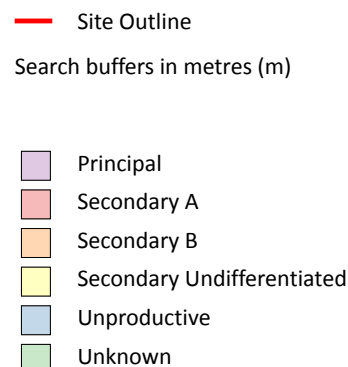
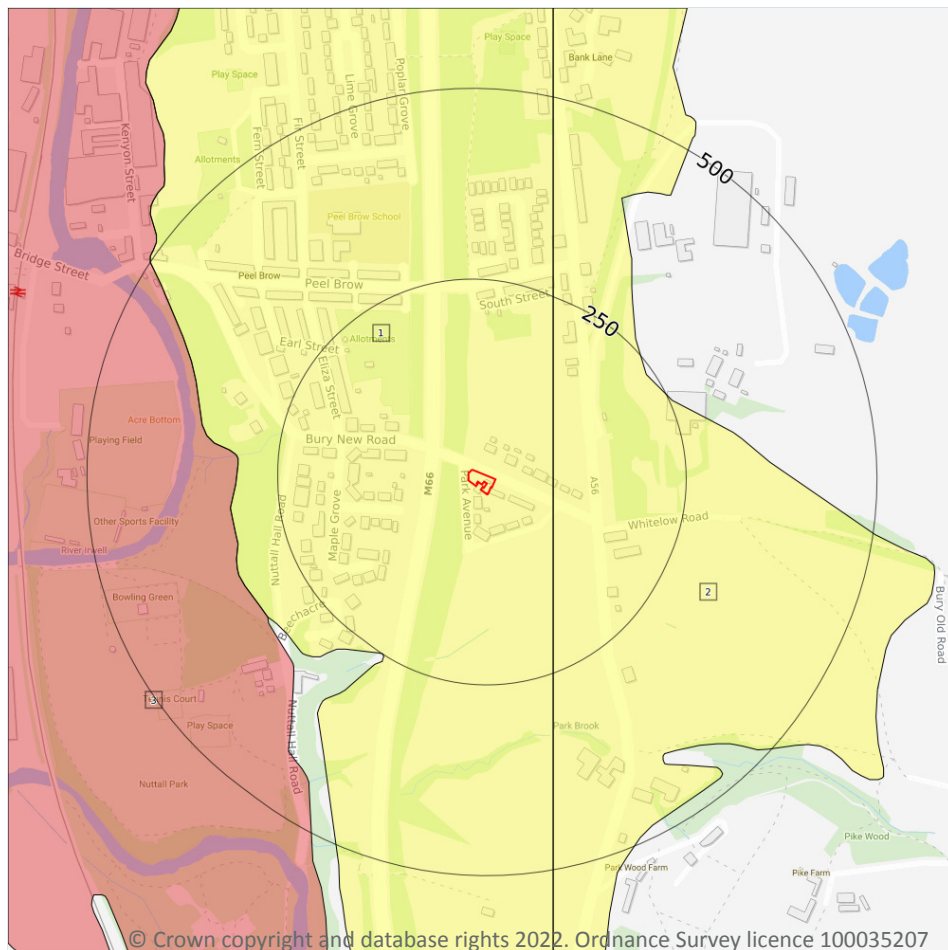
0

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

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



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

3

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 41**

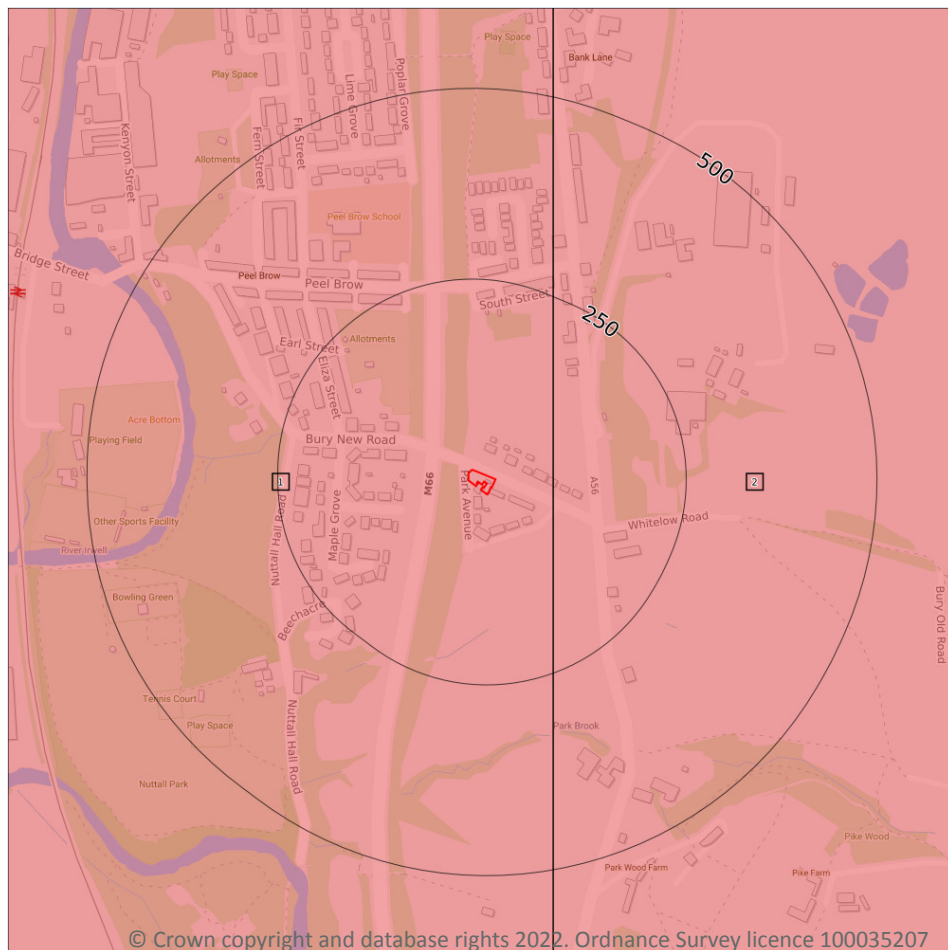
ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	76m 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

ID	Location	Designation	Description
3	302m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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 43**

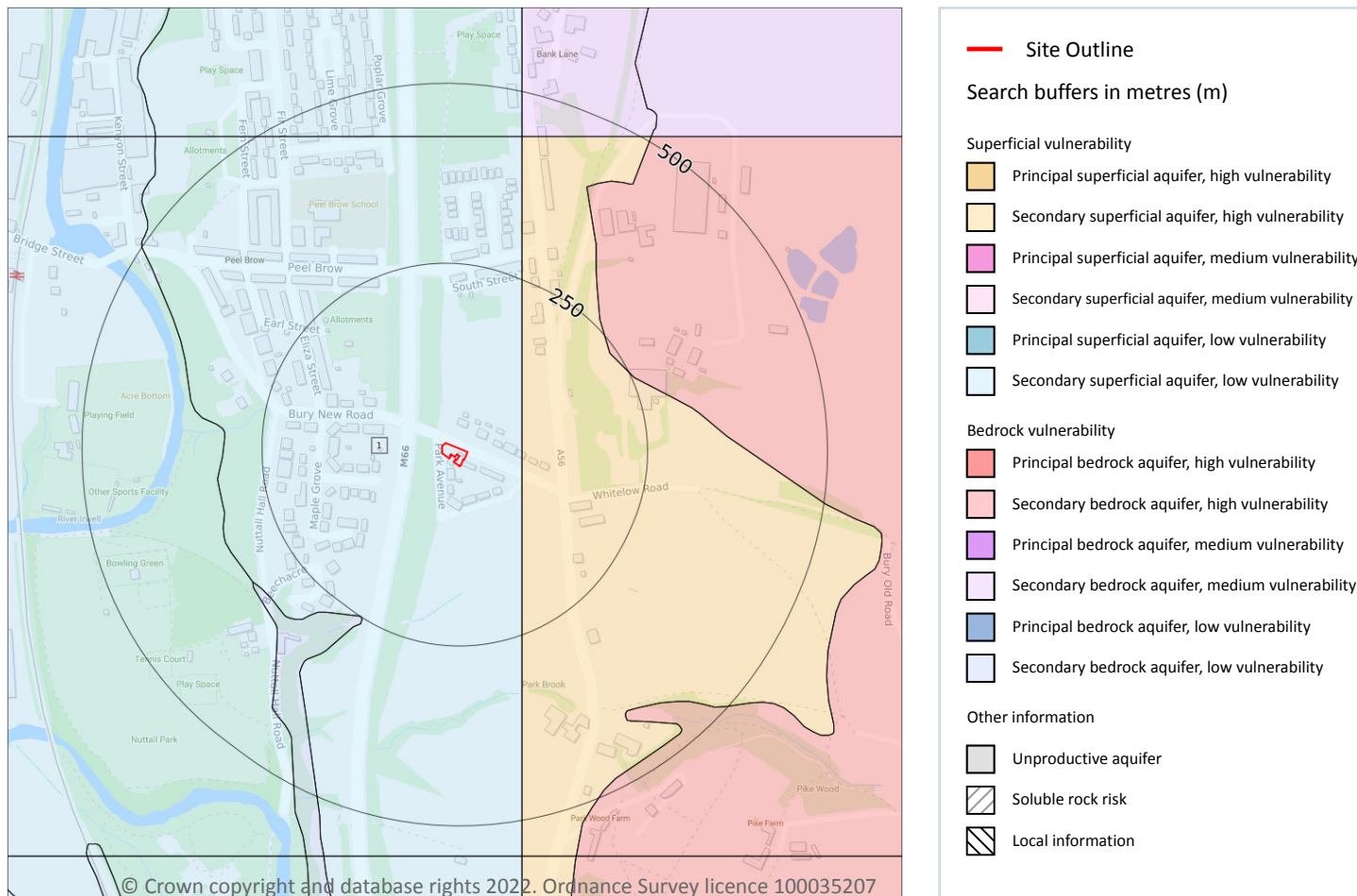
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	76m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers



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

1

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

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

Features are displayed on the Groundwater vulnerability map on **page 45**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary 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: >10m Patchiness value: >90% Recharge potential: High	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.

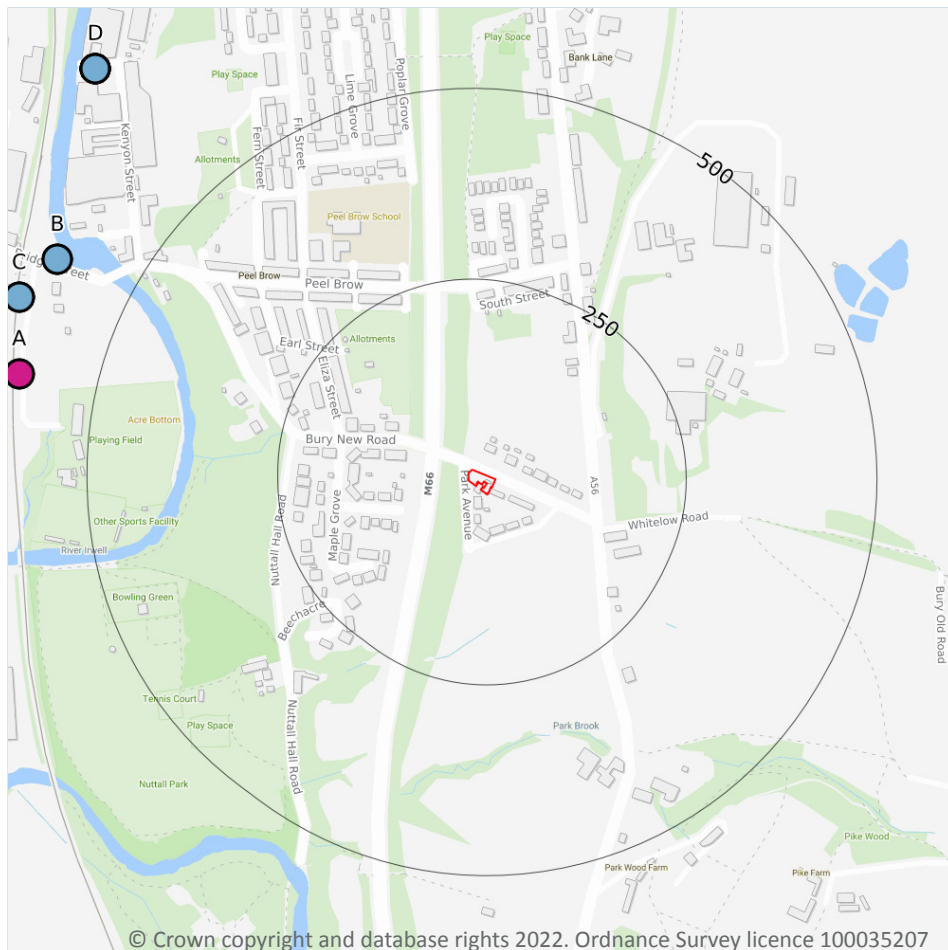
5.5 Groundwater vulnerability- local information

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

19

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

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

ID	Location	Details	
A	603m W	Status: Historical Licence No: 2569001030 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PEEL BRIDGE MILLS, RAMSBOTTOM" Data Type: Point Name: DANISCO PAPER LTD Easting: 379300 Northing: 416700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 21/08/1999 Version End Date: -
A	603m W	Status: Historical Licence No: 2569001030 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PEEL BRIDGE MILLS, RAMSBOTTOM Data Type: Point Name: MONDI HOLCOMBE LIMITED Easting: 379300 Northing: 416700	Annual Volume (m ³): 359149 Max Daily Volume (m ³): 1637 Original Application No: - Original Start Date: 14/02/1966 Expiry Date: 31/03/2015 Issue No: 105 Version Start Date: 11/08/2008 Version End Date: -
-	1041m SW	Status: Historical Licence No: 2569001101 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "SPRING FED CATCHPIT AT NUTTAL HALL FARM, RAMSBOTTOM" Data Type: Point Name: WHITTAKER Easting: 379300 Northing: 415700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -
-	1041m SW	Status: Historical Licence No: 2569001101 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: SPRING FED CATCHPIT AT NUTTAL HALL FARM, RAMSBOTTOM Data Type: Point Name: WHITTAKER Easting: 379300 Northing: 415700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -

ID	Location	Details	
-	1293m SE	Status: Historical Licence No: 2569001190 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: SPRING FED COLLECTING CHAMBER AT WALMERSLEY Data Type: Point Name: MOSLEY AND THWAITES Easting: 380800 Northing: 415600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 08/05/1972 Expiry Date: - Issue No: 100 Version Start Date: 08/05/1972 Version End Date: -
-	1444m NE	Status: Historical Licence No: 2569001100 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "SPRING FED CATCHPIT AT GREEN HILL FARM, SHUTTLEWORTH, RAMS" Data Type: Point Name: OVENDEN Easting: 381100 Northing: 417400	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: -
-	1444m NE	Status: Historical Licence No: 2569001100 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: SPRING FED CATCHPIT AT GREEN HILL FARM, SHUTTLEWORTH, RAMS Data Type: Point Name: OVENDEN Easting: 381100 Northing: 417400	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: -
-	1509m N	Status: Historical Licence No: 2569001086 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, ROSEBANK PRINTWORKS, RAMSBOTTOM," Data Type: Point Name: EDWARD TURNBULL & CO LTD Easting: 379400 Northing: 418000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/01/1981 Version End Date: -

ID	Location	Details	
-	1509m N	Status: Historical Licence No: 2569001086 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, ROSEBANK PRINTWORKS, RAMSBOTTOM Data Type: Point Name: EDWARD TURNBULL & CO LTD Easting: 379400 Northing: 418000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 22/01/2004 Version End Date: -
-	1509m N	Status: Historical Licence No: 2569001086 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES ROSEBANK PRINTWORKS RAMSBOTTOM Data Type: Point Name: EDWARD TURNBULL & CO LTD Easting: 379400 Northing: 418000	Annual Volume (m ³): 13638 Max Daily Volume (m ³): 1091.04 Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 22/01/2004 Version End Date: -
-	1585m NW	Status: Active Licence No: 2569001129 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE A' AT STUBBINS PAPER MILL, RAMSBOTTOM. Data Type: Point Name: Essity UK Limited Easting: 379012 Northing: 417892	Annual Volume (m ³): 500,000 Max Daily Volume (m ³): 2,182 Original Application No: NPS/WR/028280 Original Start Date: 16/02/1966 Expiry Date: - Issue No: 105 Version Start Date: 19/03/2018 Version End Date: -
-	1598m NW	Status: Historical Licence No: 2569001129 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT STUBBINS PAPER MILL, RAMSBOTTOM" Data Type: Point Name: GEORGIA-PACIFIC GB LTD Easting: 379000 Northing: 417900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 02/04/2001 Version End Date: -



ID	Location	Details	
-	1598m NW	Status: Historical Licence No: 2569001129 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT STUBBINS PAPER MILL, RAMSBOTTOM Data Type: Point Name: SCA Hygiene Products Tissue Limited Easting: 379000 Northing: 417900	Annual Volume (m ³): 545520 Max Daily Volume (m ³): 2727.6 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 13/08/2012 Version End Date: -
-	1675m SE	Status: Historical Licence No: 2569001187 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "SPRING FED COLLECTING CHAMBER AT NANGREAVES, BURY" Data Type: Point Name: SELLERS Easting: 381300 Northing: 415600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/06/1971 Expiry Date: - Issue No: 100 Version Start Date: 17/06/1971 Version End Date: -
-	1675m SE	Status: Historical Licence No: 2569001187 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: SPRING FED COLLECTING CHAMBER AT NANGREAVES, BURY Data Type: Point Name: SELLERS Easting: 381300 Northing: 415600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/06/1971 Expiry Date: - Issue No: 100 Version Start Date: 17/06/1971 Version End Date: -
-	1760m E	Status: Historical Licence No: 2569001097 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "SPRING FED CATCHPIT AT GATE HOUSE FARM, SHUTTLEWORTH, RAMS" Data Type: Point Name: OVENDEN Easting: 381600 Northing: 417100	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	
-	1760m E	Status: Historical Licence No: 2569001097 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: SPRING FED CATCHPIT AT GATE HOUSE FARM, SHUTTLEWORTH, RAMS Data Type: Point Name: OVENDEN Easting: 381600 Northing: 417100	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: -
-	1877m NE	Status: Historical Licence No: 2569001099 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "SPRING FED CATCHPIT AT TOP O'TH' LEE AND DRY GAP FARMS, S" Data Type: Point Name: OVENDEN Easting: 381000 Northing: 418100	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: -
-	1877m NE	Status: Historical Licence No: 2569001099 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: SPRING FED CATCHPIT AT TOP O'TH' LEE AND DRY GAP FARMS, S Data Type: Point Name: OVENDEN Easting: 381000 Northing: 418100	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: -

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

5.7 Surface water abstractions

Records within 2000m

36

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

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



ID	Location	Details	
B	607m NW	Status: Historical Licence No: 2569001246 Details: Supply to a Leat for Throughflow Direct Source: "Surface, Non-Tidal - North West Region" Point: "RIVER IRWELL AT BRIDGE STREET, RAMSBOTTOM" Data Type: Point Name: BURY METROPOLITAN BOROUGH COUNCIL Easting: 379350 Northing: 416850	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/01/1994 Expiry Date: - Issue No: 100 Version Start Date: 11/08/2000 Version End Date: -
B	607m NW	Status: Historical Licence No: 2569001246 Details: Supply to a Leat for Throughflow Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT BRIDGE STREET, RAMSBOTTOM Data Type: Point Name: BURY METROPOLITAN BOROUGH COUNCIL Easting: 379350 Northing: 416850	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/01/1994 Expiry Date: - Issue No: 100 Version Start Date: 11/08/2000 Version End Date: -
B	607m NW	Status: Active Licence No: 2569001246 Details: Supply To A Leat For Throughflow Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT BRIDGE STREET RAMSBOTTOM Data Type: Point Name: BURY METROPOLITAN BOROUGH COUNCIL Easting: 379350 Northing: 416850	Annual Volume (m ³): 63,115,200 Max Daily Volume (m ³): 172,920 Original Application No: 7253 Original Start Date: 19/01/1994 Expiry Date: - Issue No: 100 Version Start Date: 11/08/2000 Version End Date: -
C	632m W	Status: Historical Licence No: 2569001029 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: R.IRWELL AT RAMSBOTTOM Data Type: Point Name: MONDI PAPER LIMITED Easting: 379300 Northing: 416800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 11/09/2001 Version End Date: -

ID	Location	Details	
C	632m W	Status: Historical Licence No: 2569001224 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: R.IRWELL AT RAMSBOTTOM Data Type: Point Name: MONDI HOLCOMBE LIMITED Easting: 379300 Northing: 416800	Annual Volume (m ³): 90920 Max Daily Volume (m ³): 1091.04 Original Application No: - Original Start Date: 12/04/1988 Expiry Date: - Issue No: 103 Version Start Date: 11/08/2008 Version End Date: -
C	632m W	Status: Historical Licence No: 2569001029 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: GOIT FED BY SURFACE DRAINAGE AND RIVER IRWELL AT RAMSBOTTOM Data Type: Point Name: MONDI HOLCOMBE LIMITED Easting: 379300 Northing: 416800	Annual Volume (m ³): 322766 Max Daily Volume (m ³): 1637 Original Application No: - Original Start Date: 14/02/1966 Expiry Date: 31/03/2015 Issue No: 105 Version Start Date: 11/08/2008 Version End Date: -
D	720m NW	Status: Historical Licence No: 2569001047 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "R IRWELL AT PREMISES, BRITANNIA WORKS, KENYON STREET, RA" Data Type: Point Name: KAYS RAMSBOTTOM LTD Easting: 379400 Northing: 417100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1995 Version End Date: -
D	720m NW	Status: Historical Licence No: 2569001047 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "R IRWELL AT PREMISES, BRITANNIA WORKS, KENYON STREET, RA" Data Type: Point Name: KAYS RAMSBOTTOM LTD Easting: 379400 Northing: 417100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1995 Version End Date: -



ID	Location	Details	
D	720m NW	Status: Historical Licence No: 2569001047 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: R IRWELL AT PREMISES, BRITANNIA WORKS, KENYON STREET, RA Data Type: Point Name: KAYS RAMSBOTTOM LTD Easting: 379400 Northing: 417100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1995 Version End Date: -
D	720m NW	Status: Historical Licence No: 2569001047 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: R IRWELL AT PREMISES, BRITANNIA WORKS, KENYON STREET, RA Data Type: Point Name: KAYS RAMSBOTTOM LTD Easting: 379400 Northing: 417100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1995 Version End Date: -
D	720m NW	Status: Historical Licence No: 2569001047 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: R IRWELL AT, BRITANNIA WORKS, KENYON STREET, RAMSBOTTOM Data Type: Point Name: KAYS RAMSBOTTOM LTD Easting: 379400 Northing: 417100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1995 Version End Date: -
D	720m NW	Status: Historical Licence No: 2569001047 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: R IRWELL AT, BRITANNIA WORKS, KENYON STREET, RAMSBOTTOM Data Type: Point Name: KAYS RAMSBOTTOM LTD Easting: 379400 Northing: 417100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1995 Version End Date: -

ID	Location	Details	
D	720m NW	Status: Historical Licence No: 2569001047 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT BRITANNIA WORKS KENYON STREET RAMSBOTTOM Data Type: Point Name: KAYS RAMSBOTTOM LTD Easting: 379400 Northing: 417100	Annual Volume (m ³): 159111 Max Daily Volume (m ³): 636.44 Original Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1995 Version End Date: -
D	720m NW	Status: Historical Licence No: 2569001047 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT BRITANNIA WORKS KENYON STREET RAMSBOTTOM Data Type: Point Name: KAYS RAMSBOTTOM LTD Easting: 379400 Northing: 417100	Annual Volume (m ³): 159111 Max Daily Volume (m ³): 636.44 Original Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1995 Version End Date: -
-	1052m NE	Status: Historical Licence No: 2569001199 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "CROSS BANK BRK AT RAMSBOTTOM, BURY" Data Type: Point Name: MARSHALLS MONO LTD Easting: 380400 Northing: 417500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 22/09/1975 Expiry Date: - Issue No: 100 Version Start Date: 18/02/1987 Version End Date: -
-	1052m NE	Status: Historical Licence No: 2569001199 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: CROSS BANK BRK AT RAMSBOTTOM, BURY Data Type: Point Name: MARSHALLS MONO LTD Easting: 380400 Northing: 417500	Annual Volume (m ³): 34096 Max Daily Volume (m ³): 136 Original Application No: - Original Start Date: 22/09/1975 Expiry Date: - Issue No: 101 Version Start Date: 28/08/2014 Version End Date: -



ID	Location	Details	
-	1358m NW	Status: Active Licence No: 2569001201 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT 'A' AT STUBBINS, RAMSBOTTOM, BURY. Data Type: Point Name: Essity UK Limited Easting: 379246 Northing: 417768	Annual Volume (m ³): 3,100,000 Max Daily Volume (m ³): 9,090 Original Application No: NPS/WR/028282 Original Start Date: 07/11/1977 Expiry Date: - Issue No: 105 Version Start Date: 19/03/2018 Version End Date: -
-	1408m NW	Status: Historical Licence No: 2569001201 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "R IRWELL AT RAMSBOTTOM, BURY" Data Type: Point Name: GEORGIA-PACIFIC GB LTD Easting: 379200 Northing: 417800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/11/1977 Expiry Date: - Issue No: 101 Version Start Date: 02/04/2001 Version End Date: -
-	1408m NW	Status: Historical Licence No: 2569001201 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: R IRWELL AT RAMSBOTTOM, BURY Data Type: Point Name: SCA Hygiene Products Tissue Limited Easting: 379200 Northing: 417800	Annual Volume (m ³): 4,159,680 Max Daily Volume (m ³): 11365 Original Application No: - Original Start Date: 07/11/1977 Expiry Date: - Issue No: 102 Version Start Date: 13/08/2012 Version End Date: -
-	1624m NW	Status: Active Licence No: 2569001128 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR 'B' AT SUBBINS, RAMSBOTTOM, BURY. Data Type: Point Name: Essity UK Limited Easting: 378930 Northing: 417882	Annual Volume (m ³): 1,450,000 Max Daily Volume (m ³): 4,543 Original Application No: NPS/WR/028283 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 106 Version Start Date: 19/03/2018 Version End Date: -

ID	Location	Details	
-	1631m NW	Status: Historical Licence No: 2569001128 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS 'A' AT STUBBINS, RAMSBOTTOM, BURY Data Type: Point Name: SCA Hygiene Products Tissue Limited Easting: 378785 Northing: 417771	Annual Volume (m ³): - Max Daily Volume (m ³): 4543 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 08/11/2013 Version End Date: -
-	1642m NW	Status: Historical Licence No: 2569001128 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT STUBBINS PAP Data Type: Point Name: GEORGIA-PACIFIC GB LTD Easting: 378800 Northing: 417800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 02/04/2001 Version End Date: -
-	1642m NW	Status: Historical Licence No: 2569001128 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS X 2 FED BY SURFACE DRAINAGE AT STUBBINS Data Type: Point Name: SCA Hygiene Products Tissue Limited Easting: 378800 Northing: 417800	Annual Volume (m ³): - Max Daily Volume (m ³): 5682.5 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 13/08/2012 Version End Date: -
-	1669m NW	Status: Active Licence No: 2569001128 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR 'C' AT SUBBINS, RAMSBOTTOM, BURY. Data Type: Point Name: Essity UK Limited Easting: 378938 Northing: 417943	Annual Volume (m ³): 1,450,000 Max Daily Volume (m ³): 4,543 Original Application No: NPS/WR/028283 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 106 Version Start Date: 19/03/2018 Version End Date: -

ID	Location	Details	
-	1673m N	Status: Historical Licence No: 2569001180 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR AT ROSEBANK PRINTWORKS, RAMSBOTTOM, NEAR BURY" Data Type: Point Name: EDWARD TURNBULL & CO LTD Easting: 379500 Northing: 418200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/06/1969 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1993 Version End Date: -
-	1673m N	Status: Historical Licence No: 2569001180 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR AT ROSEBANK PRINTWORKS, RAMSBOTTOM, NEAR BURY Data Type: Point Name: EDWARD TURNBULL & CO LTD Easting: 379500 Northing: 418200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/06/1969 Expiry Date: - Issue No: 101 Version Start Date: 22/01/2004 Version End Date: -
-	1673m N	Status: Historical Licence No: 2569001180 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR AT ROSEBANK PRINTWORKS RAMSBOTTOM NEAR BURY Data Type: Point Name: EDWARD TURNBULL & CO LTD Easting: 379500 Northing: 418200	Annual Volume (m ³): 547793 Max Daily Volume (m ³): 1963.872 Original Application No: - Original Start Date: 01/06/1969 Expiry Date: - Issue No: 101 Version Start Date: 22/01/2004 Version End Date: -
-	1682m NW	Status: Historical Licence No: 2569001128 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT STUBBIN85 Data Type: Point Name: FORT JAMES UK LTD Easting: 379000 Northing: 418000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/01/1998 Version End Date: -



ID	Location	Details	
-	1682m NW	Status: Historical Licence No: 2569001128 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT STUBBIN\$85 Data Type: Point Name: GEORGIA-PACIFIC GB LTD Easting: 379000 Northing: 418000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 02/04/2001 Version End Date: -
-	1682m NW	Status: Historical Licence No: 2569001128 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT STUBBIN Data Type: Point Name: GEORGIA-PACIFIC GB LTD Easting: 379000 Northing: 418000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 02/04/2001 Version End Date: -
-	1682m NW	Status: Historical Licence No: 2569001128 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS X 2 FED BY SURFACE DRAINAGE AT STUBBINS Data Type: Point Name: SCA Hygiene Products Tissue Limited Easting: 379000 Northing: 418000	Annual Volume (m ³): - Max Daily Volume (m ³): 5682.5 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 13/08/2012 Version End Date: -
-	1849m NE	Status: Historical Licence No: 2569001012 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY NEW GATE BRK AND FIELD DRAINAGE, ADJACENT Data Type: Point Name: TOMASZEWSKI Easting: 381200 Northing: 417900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/01/1991 Version End Date: -

ID	Location	Details	
-	1878m SE	Status: Historical Licence No: 2569001229 Details: General Farming & Domestic Direct Source: "Surface, Non-Tidal - North West Region" Point: "SPRING FED STORAGE TANKS AT NANGREAVES, BURY" Data Type: Point Name: ALEXANDER Easting: 381650 Northing: 415820	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/11/1990 Expiry Date: - Issue No: 100 Version Start Date: 29/11/1990 Version End Date: -
-	1878m SE	Status: Historical Licence No: 2569001229 Details: General Farming & Domestic Direct Source: Surface, Non-Tidal - North West Region Point: SPRING FED STORAGE TANKS AT NANGREAVES, BURY Data Type: Point Name: ALEXANDER Easting: 381650 Northing: 415820	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/11/1990 Expiry Date: - Issue No: 100 Version Start Date: 29/11/1990 Version End Date: -
-	1928m N	Status: Historical Licence No: 2569001179 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR AT PREMISES, EDENWOOD MILL, RAMSBOTTOM" Data Type: Point Name: TURNBULL & STOCKDALE LTD Easting: 379800 Northing: 418500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 22/01/1999 Version End Date: -
-	1928m N	Status: Historical Licence No: 2569001179 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR AT PREMISES, EDENWOOD MILL, RAMSBOTTOM Data Type: Point Name: TURNBULL & STOCKDALE LTD Easting: 379800 Northing: 418500	Annual Volume (m ³): 218208 Max Daily Volume (m ³): 1091.06 Original Application No: - Original Start Date: 24/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 22/01/1999 Version End Date: -

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



5.8 Potable abstractions

Records within 2000m

0

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

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

5.9 Source Protection Zones

Records within 500m

0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

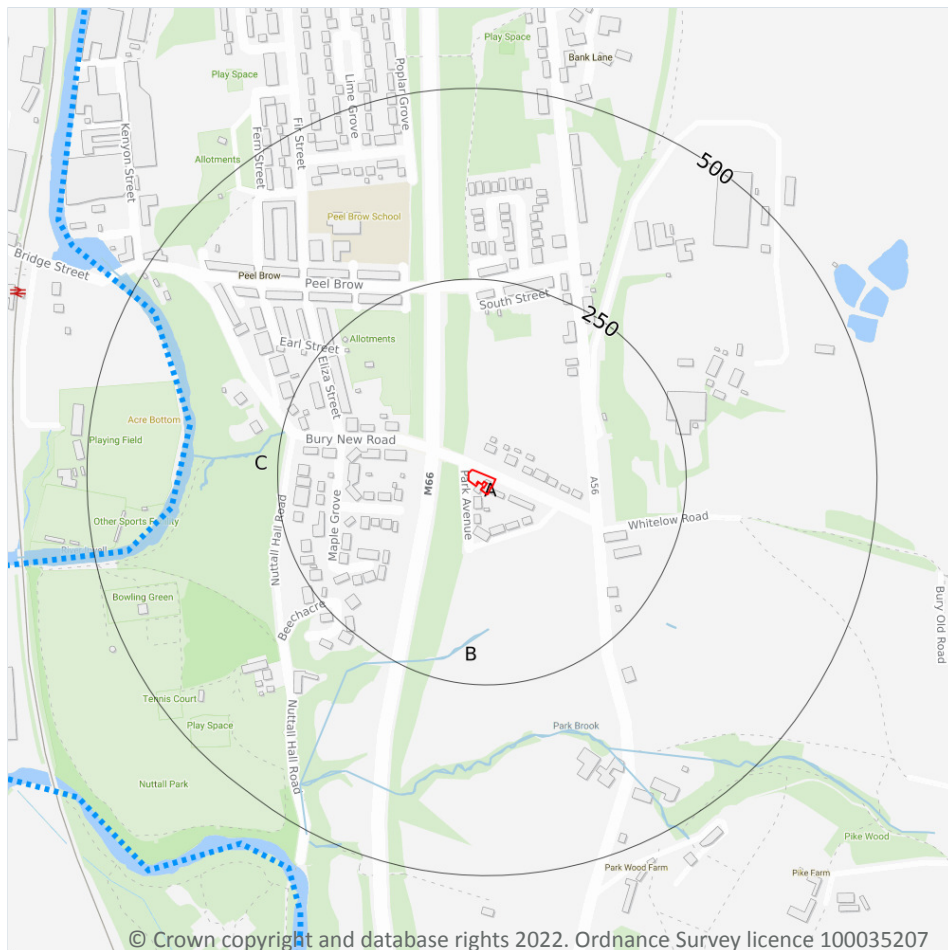
0

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

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



6 Hydrology



- 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

4

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 63**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	176m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
B	226m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	233m S	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
C	246m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

2

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 63**

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 63**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	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 63**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
5	370m W	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 63**

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

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



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m**0**

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

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

7.2 Historical Flood Events

Records within 250m**0**

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

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

7.3 Flood Defences

Records within 250m**0**

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

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



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

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

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

7.7 Flood Zone 3

Records within 50m

0

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

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



8 Surface water flooding

8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

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

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

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

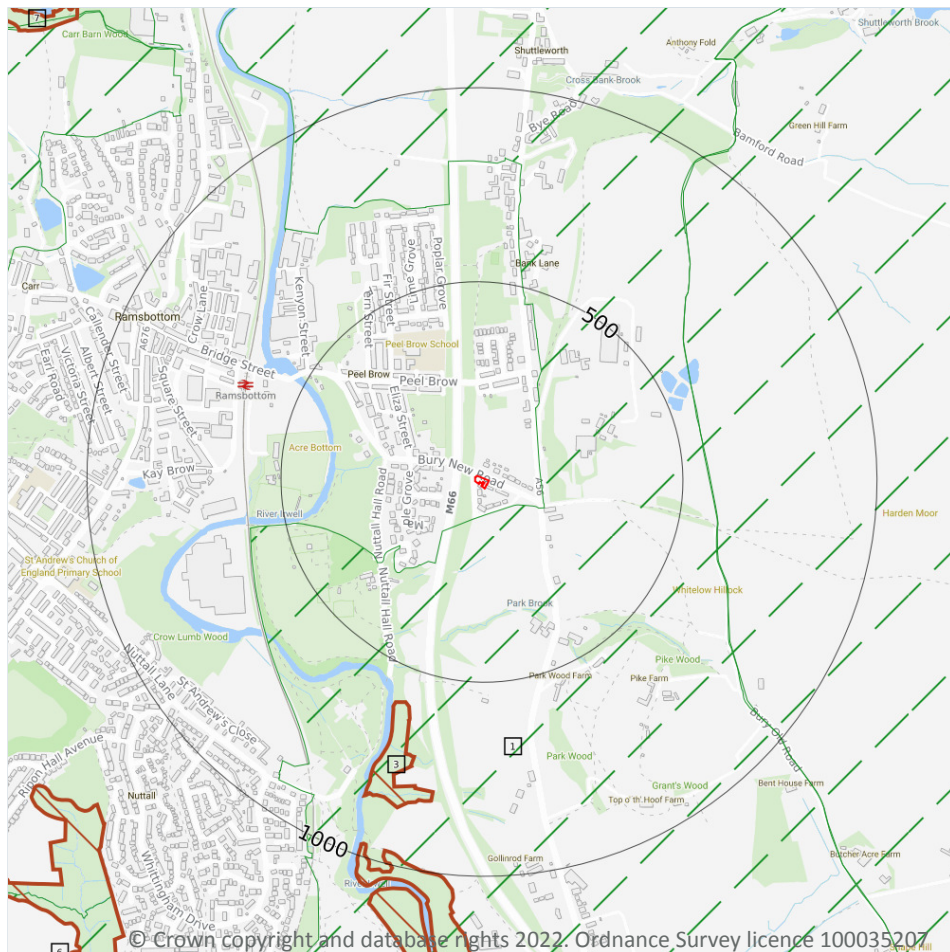
Low

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

Features are displayed on the Groundwater flooding map on **page 70**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- ▨ Sites of Special Scientific Interest (SSSI)
- ▨ Designated Ancient Woodland
- ▨ Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

2

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

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

ID	Location	Name	Data source
-	1614m NW	Lower Red Lees Pasture	Natural England



ID	Location	Name	Data source
-	1683m W	West Pennine Moors	Natural England

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

8

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

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

ID	Location	Name	Woodland Type
3	587m S	Nuttall Wood	Ancient & Semi-Natural Woodland
4	967m S	Gollinrod Wood	Ancient & Semi-Natural Woodland
5	1052m S	Gollinrod Wood	Ancient & Semi-Natural Woodland
6	1282m SW	Broad Hey Wood	Ancient & Semi-Natural Woodland
7	1565m NW	Unknown	Ancient Replanted Woodland
-	1714m NW	Unknown	Ancient & Semi-Natural Woodland
-	1771m NW	Unknown	Ancient & Semi-Natural Woodland
-	1815m NW	Unknown	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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



10.9 Forest Parks

Records within 2000m**0**

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m**0**

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

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

10.11 Green Belt

Records within 2000m**2**

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

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

ID	Location	Name	Local Authority name
1	66m S	Merseyside and Greater Manchester	Bury
2	559m E	Merseyside and Greater Manchester	Rossendale

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

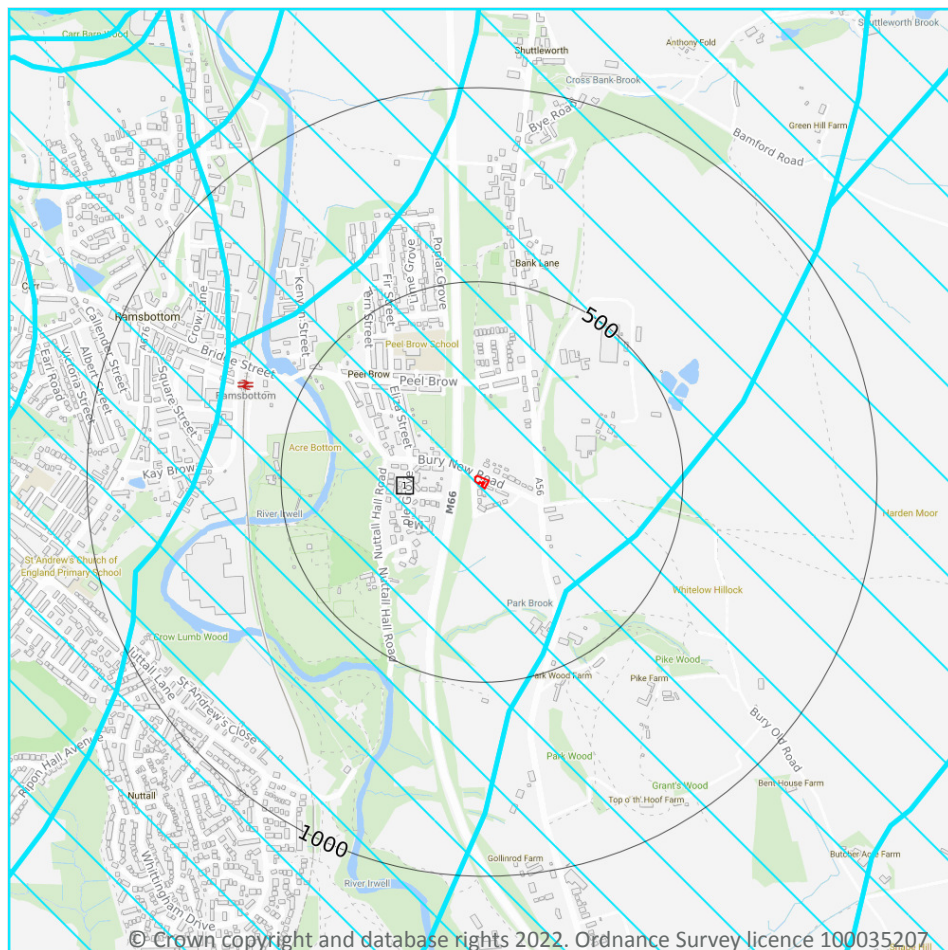
Records within 2000m**0**

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 76**



ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	2
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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.

Features are displayed on the SSSI Impact Zones and Units map on **page 76**

ID: -
 Location: 1614m NW
 SSSI name: Lower Red Lees Pasture
 Unit name: 1
 Broad habitat: Neutral Grassland - Lowland
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Juncus effusus/acutiflorus - Galium palustre rush pasture (M23)	Unfavourable - Recovering	26/08/2009
Lowland dry acid grassland (U4)	Unfavourable - Recovering	26/08/2009
Lowland neutral grassland (MG5)	Unfavourable - Recovering	26/08/2009



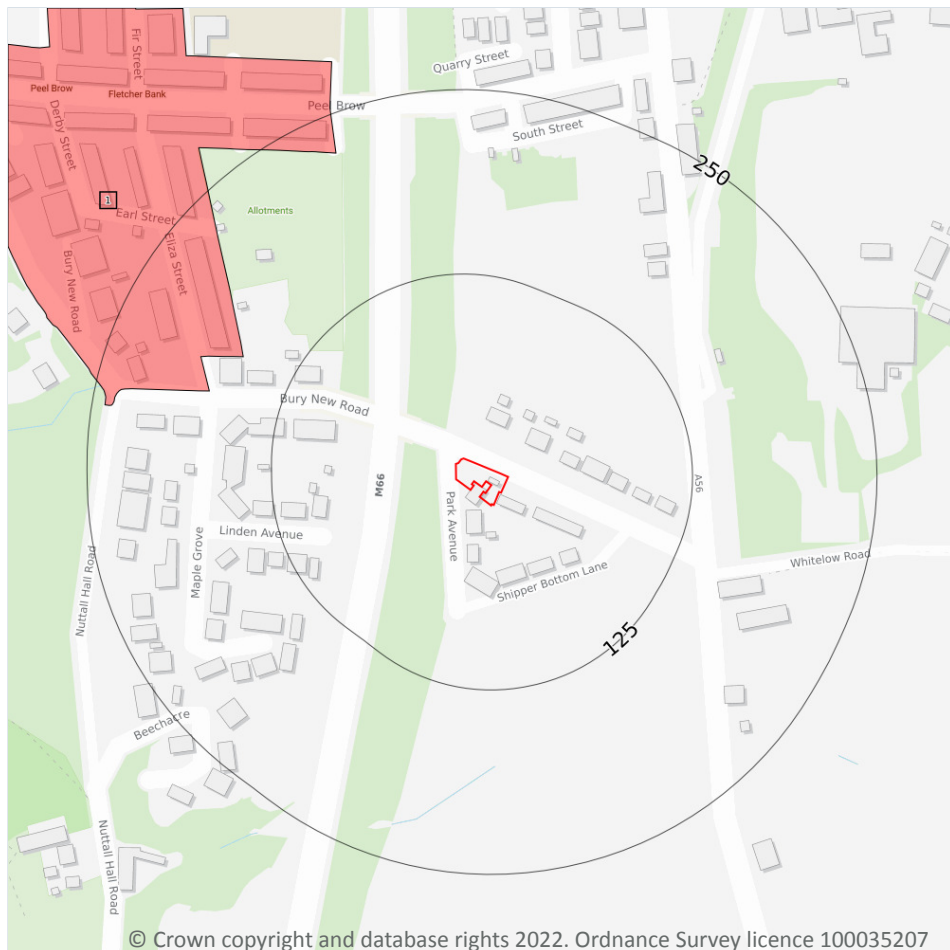
ID: -
Location: 1683m W
SSSI name: West Pennine Moors
Unit name: Unit 1
Broad habitat: Bogs - Upland
Condition: Unfavourable - No change
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Upland moorland without waterbodies and upland in-bye and allotment farmland	Favourable	31/08/2012
Blanket bog and valley bog (upland)	Unfavourable - No change	17/12/2013
Subalpine dwarf-shrub heath	Favourable	17/12/2013
Wet heath (upland)	Favourable	17/12/2013

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**0**

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.

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

11.5 Conservation Areas

Records within 250m**1**

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



Features are displayed on the Visual and cultural designations map on **page 79**

ID	Location	Name	District	Date of designation
1	161m NW	Ramsbottom	Bury	1977

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

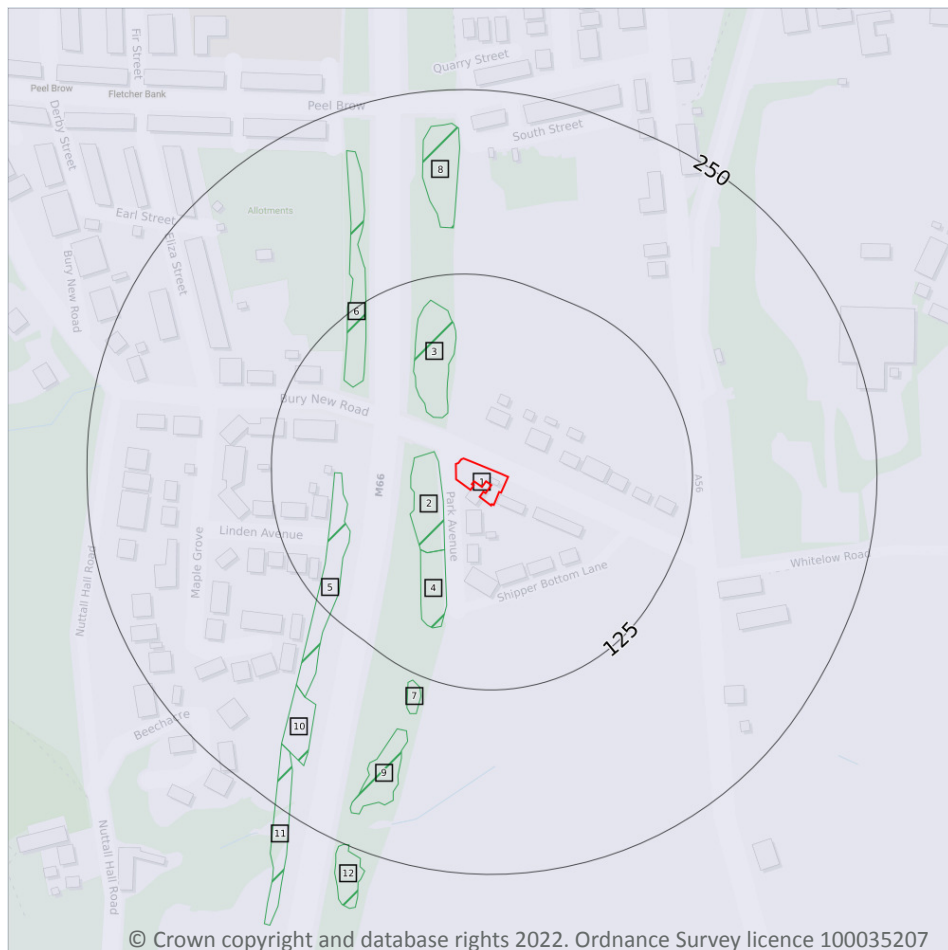
0

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

1

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

Features are displayed on the Agricultural designations map on **page 82**

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

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

11

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

Features are displayed on the Agricultural designations map on **page 82**

ID	Location	Description	Reference	Application date
2	10m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
3	31m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
4	43m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
5	75m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
6	85m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
7	130m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
8	156m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-
9	163m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
10	176m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
11	214m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
12	249m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-

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

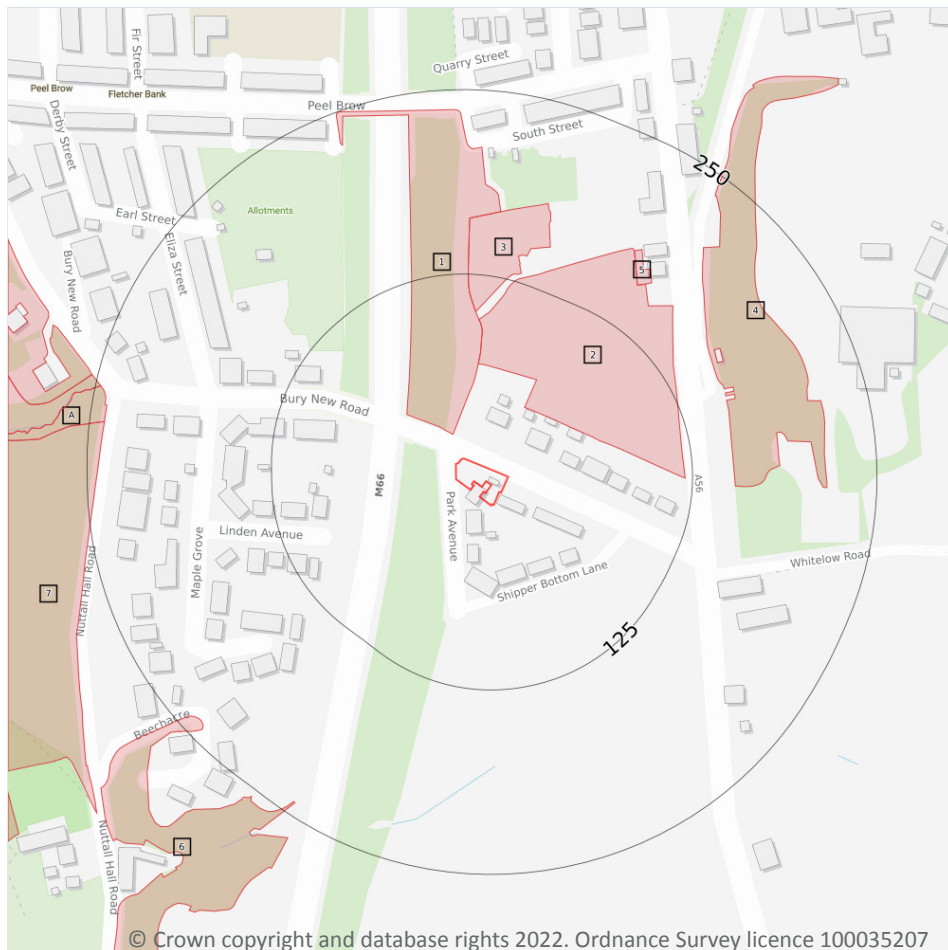
0

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

9

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
1	18m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	48m N	Purple moor grass and rush pastures	Main habitat: LMEAD (INV > 50%); PMGRP (INV > 50%)
3	100m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	153m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
5	157m NE	Purple moor grass and rush pastures	Main habitat: LMEAD (INV > 50%); PMGRP (INV > 50%)
6	238m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	240m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	240m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	247m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

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

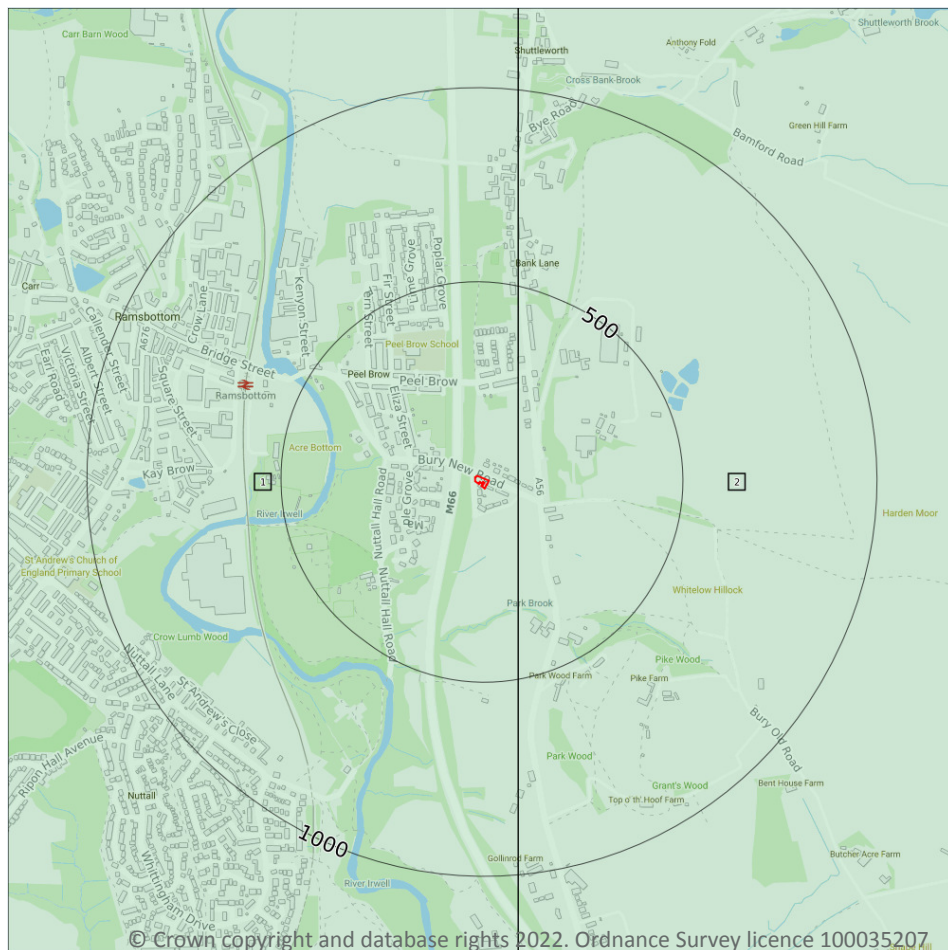
0

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.

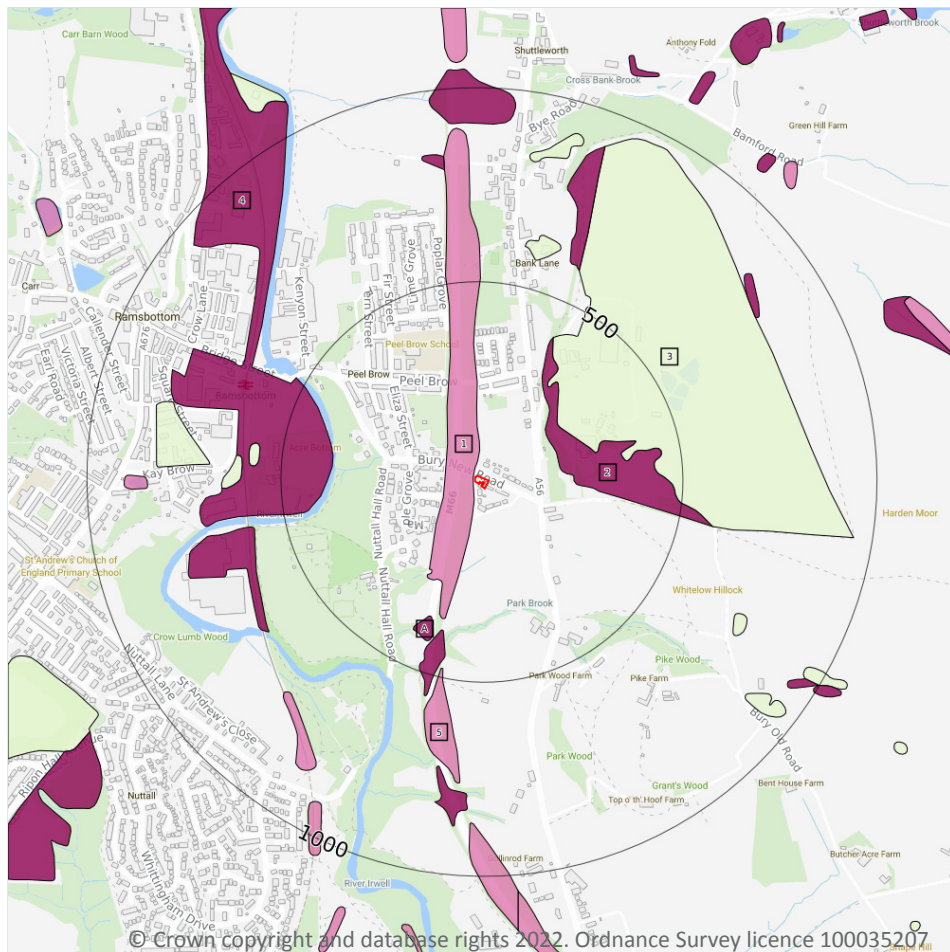
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 87**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD71NE
2	76m E	Full	Full	Full	Full	SD81NW

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

7

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 88**

ID	Location	LEX Code	Description	Rock description
1	5m W	WGR-VOID	Worked Ground (Undivided)	Void
2	186m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	229m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	358m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

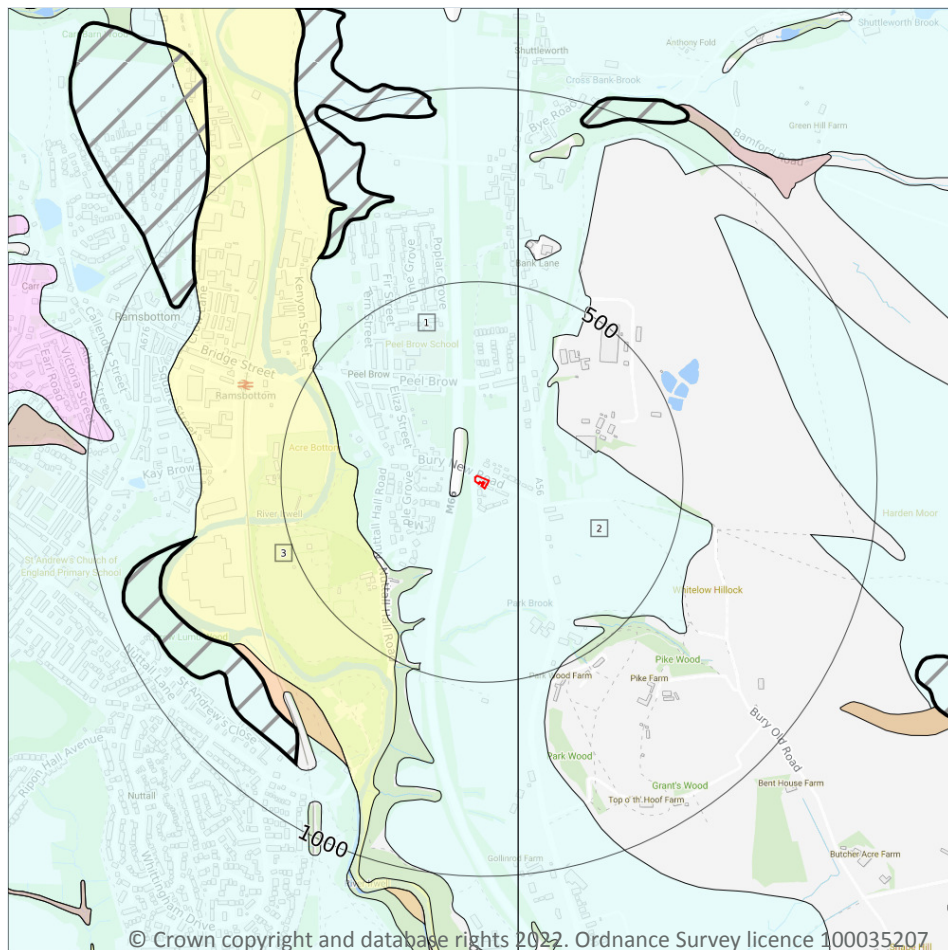


ID	Location	LEX Code	Description	Rock description
4	369m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	381m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
5	477m S	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

3

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 90**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
2	76m E	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
3	302m W	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

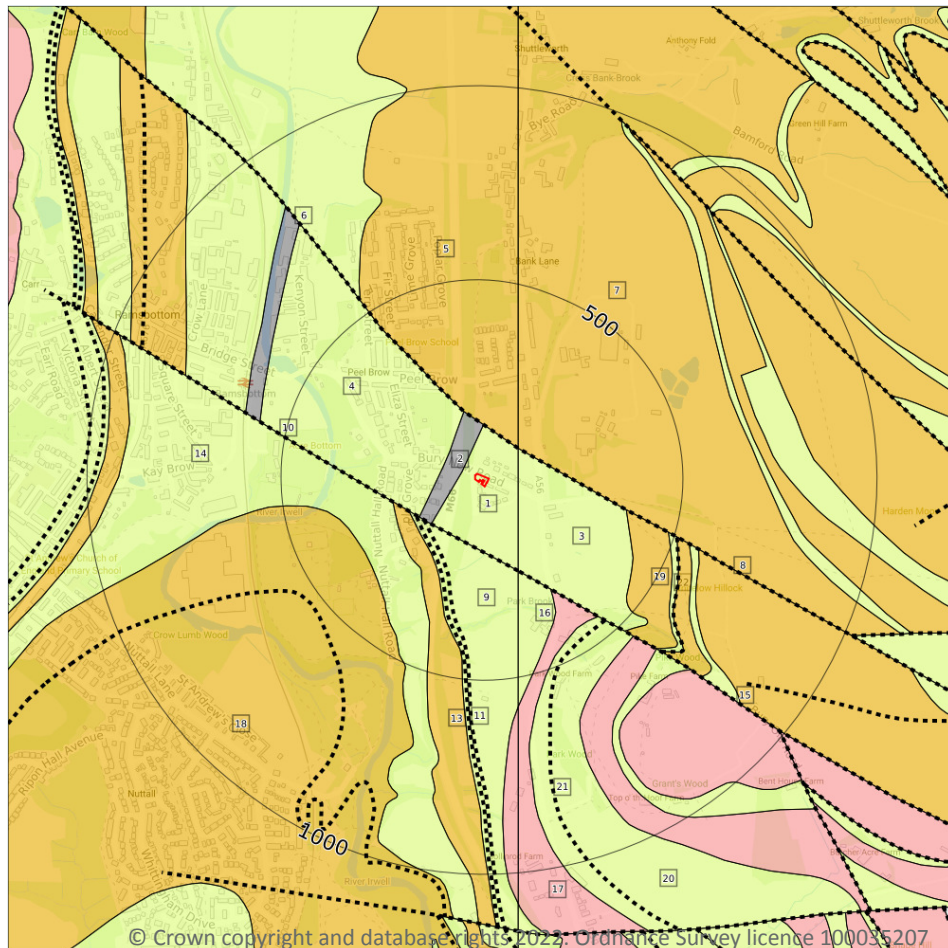
0

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

15

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 92**

ID	Location	LEX Code	Description	Rock age
1	On site	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
2	34m NW	HZG-SDST	Hazel Greave Grit - Sandstone	Marsdenian Sub-age
3	76m E	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age

ID	Location	LEX Code	Description	Rock age
4	84m NW	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
5	107m NE	FLB-SDST	Fletcher Bank Grit - Sandstone	Marsdenian Sub-age
7	109m NE	FLB-SDST	Fletcher Bank Grit - Sandstone	Marsdenian Sub-age
9	151m SW	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
13	189m SW	HLBG-SDST	Holcombe Brook Grit - Sandstone	Marsdenian Sub-age
14	220m W	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
16	235m S	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
17	315m SE	LH-SDST	Lower Haslingden Flags - Sandstone	Yeadonian Sub-age
18	341m SW	BBS-SDST	Brooksbottoms Grit - Sandstone	Marsdenian Sub-age
19	363m E	BBS-SDST	Brooksbottoms Grit - Sandstone	Marsdenian Sub-age
20	436m SE	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
22	483m E	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian 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 92**

ID	Location	Category	Description
6	107m NE	FAULT	Normal fault, inferred
8	109m NE	FAULT	Normal fault, inferred
10	151m SW	FAULT	Normal fault, inferred
11	168m SW	FOSSIL_HORIZON	Fossil horizon, marine band

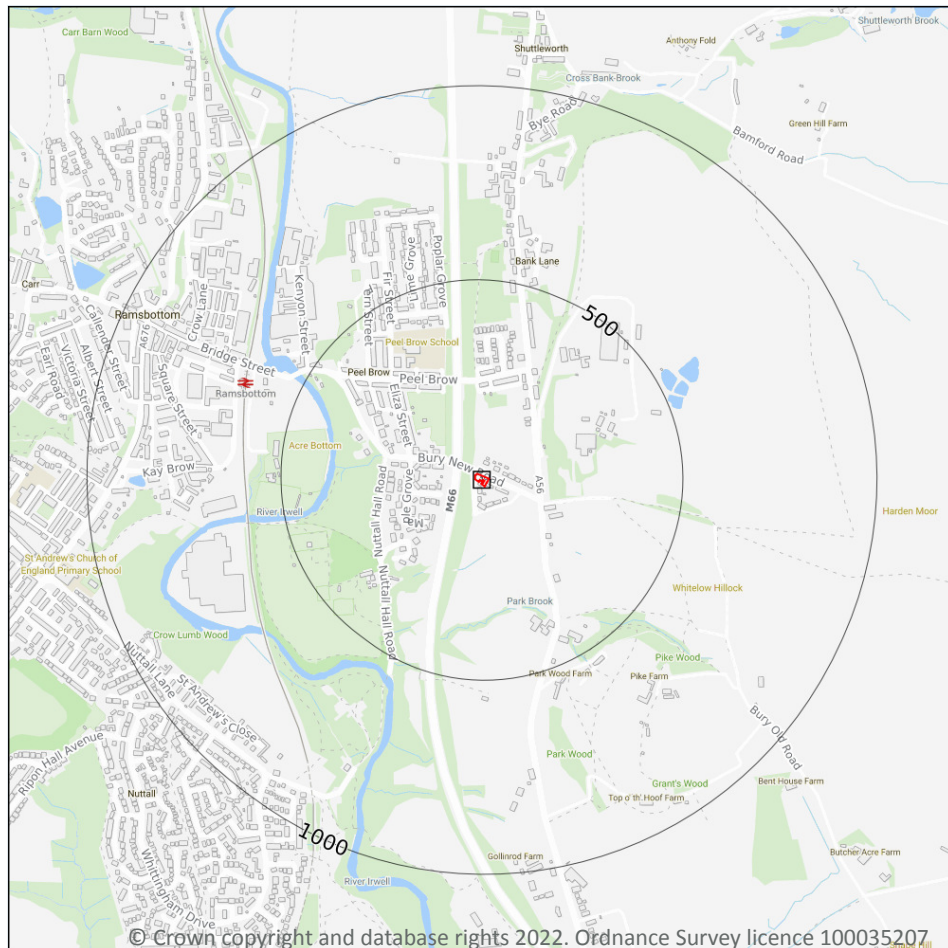


ID	Location	Category	Description
12	178m SW	ROCK	Coal seam, inferred
15	235m S	FAULT	Normal fault, inferred
21	463m SE	FOSSIL_HORIZON	Fossil horizon, marine band

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.

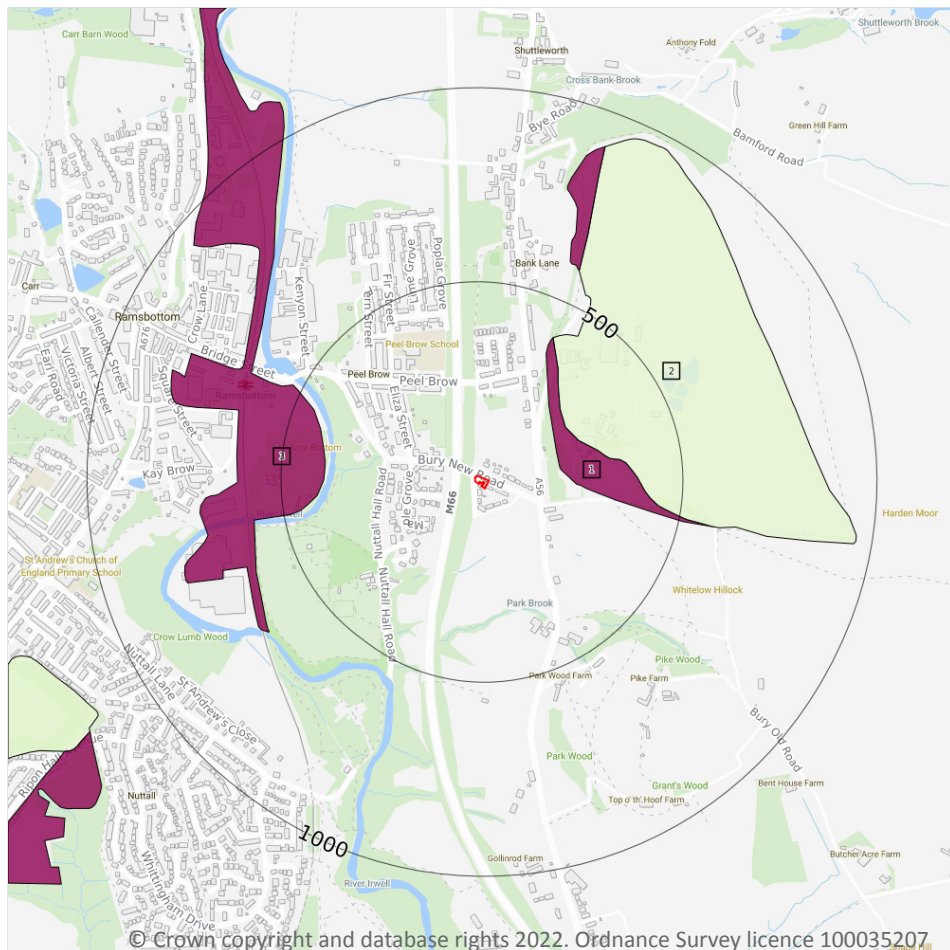
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 95**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	Full	EW076_rochdale_v4

This data is sourced from the British Geological Survey.



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



- 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

3

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 96**

ID	Location	LEX Code	Description	Rock description
1	186m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	241m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
3	388m W	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

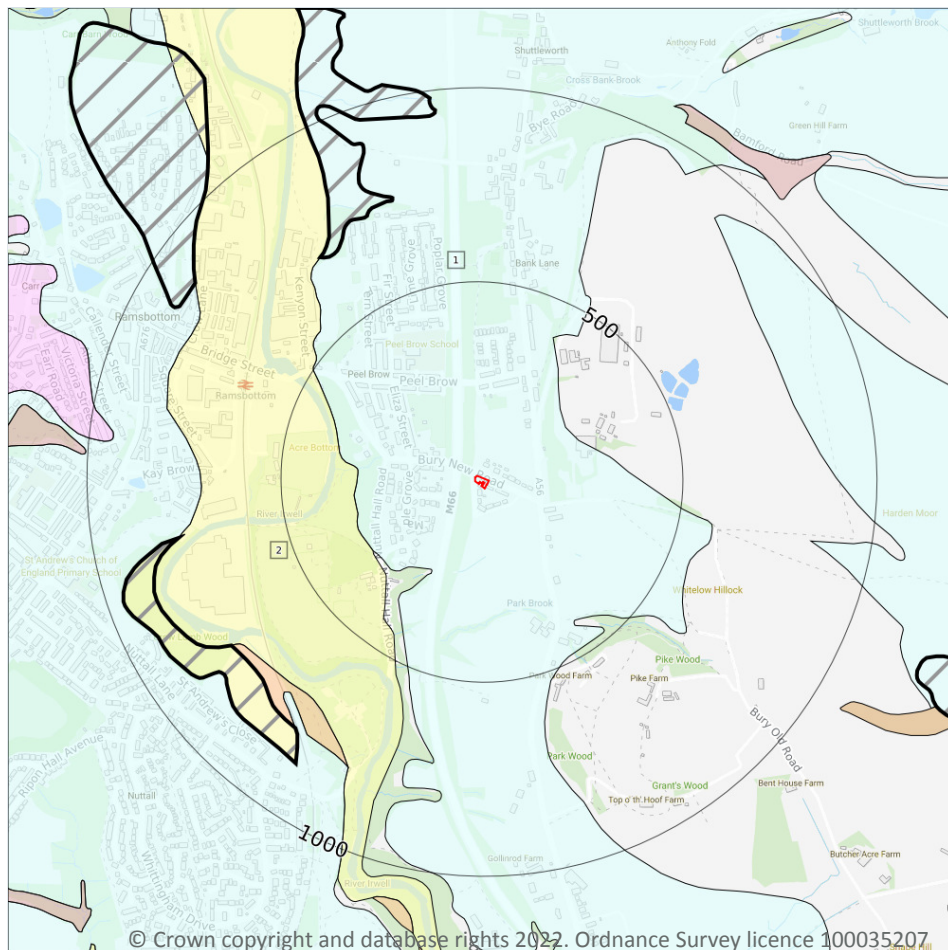
0

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

2

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 98**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON
2	302m W	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**1**

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m**0**

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

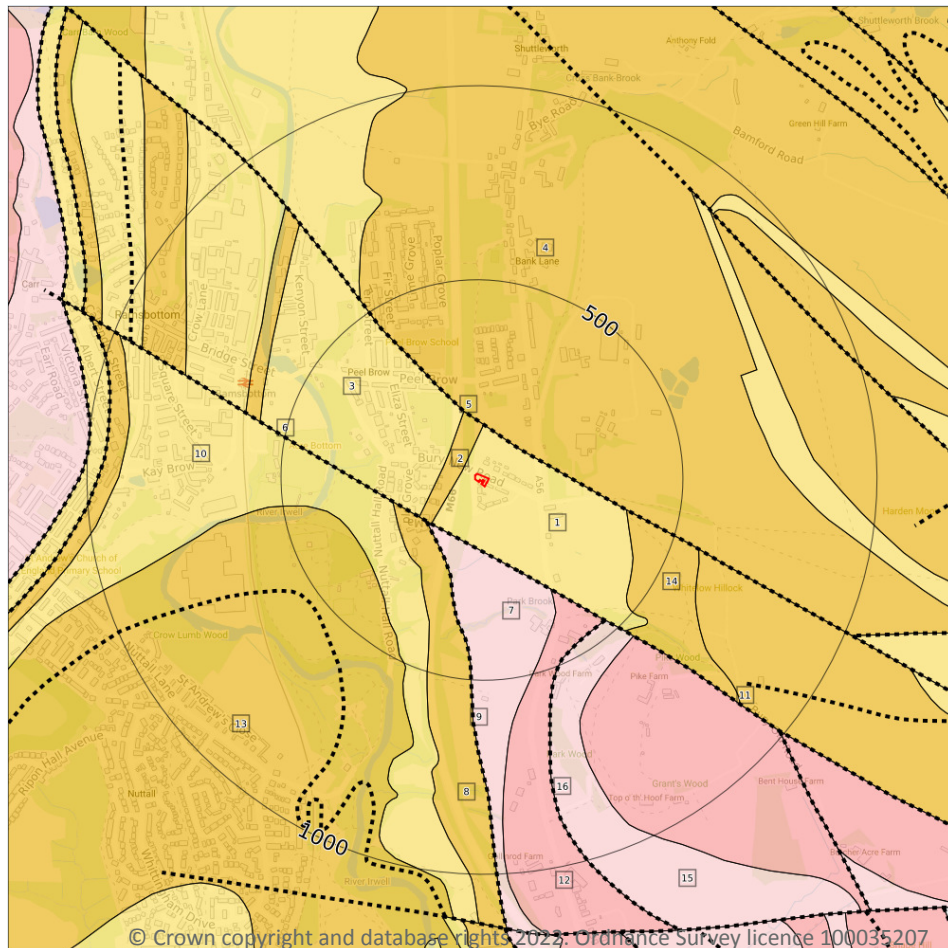
Records within 50m**0**

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

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

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

15.8 Bedrock geology (50k)

Records within 500m

11

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 100**

ID	Location	LEX Code	Description	Rock age
1	On site	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
2	35m NW	GSYG-SDST	GUISELEY GRIT - SANDSTONE	NAMURIAN
3	84m W	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN



ID	Location	LEX Code	Description	Rock age
4	108m NE	FLB-SDST	FLETCHER BANK GRIT - SANDSTONE	NAMURIAN
7	151m SW	ROSSE-MDSI	ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
8	166m SW	HLBG-SDST	HOLCOMBE BROOK GRIT - SANDSTONE	NAMURIAN
10	220m W	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
12	315m SE	LH-SDST	LOWER HASLINGDEN FLAGS - SANDSTONE	NAMURIAN
13	341m SW	BBS-SDST	BROOKSBOTTOMS GRIT - SANDSTONE	NAMURIAN
14	364m E	BBS-SDST	BROOKSBOTTOMS GRIT - SANDSTONE	NAMURIAN
15	463m SE	ROSSE-MDSI	ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

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

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Low	Low
35m NW	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 100**

ID	Location	Category	Description
5	108m NE	FAULT	Fault, inferred, displacement unknown
6	151m SW	FAULT	Fault, inferred

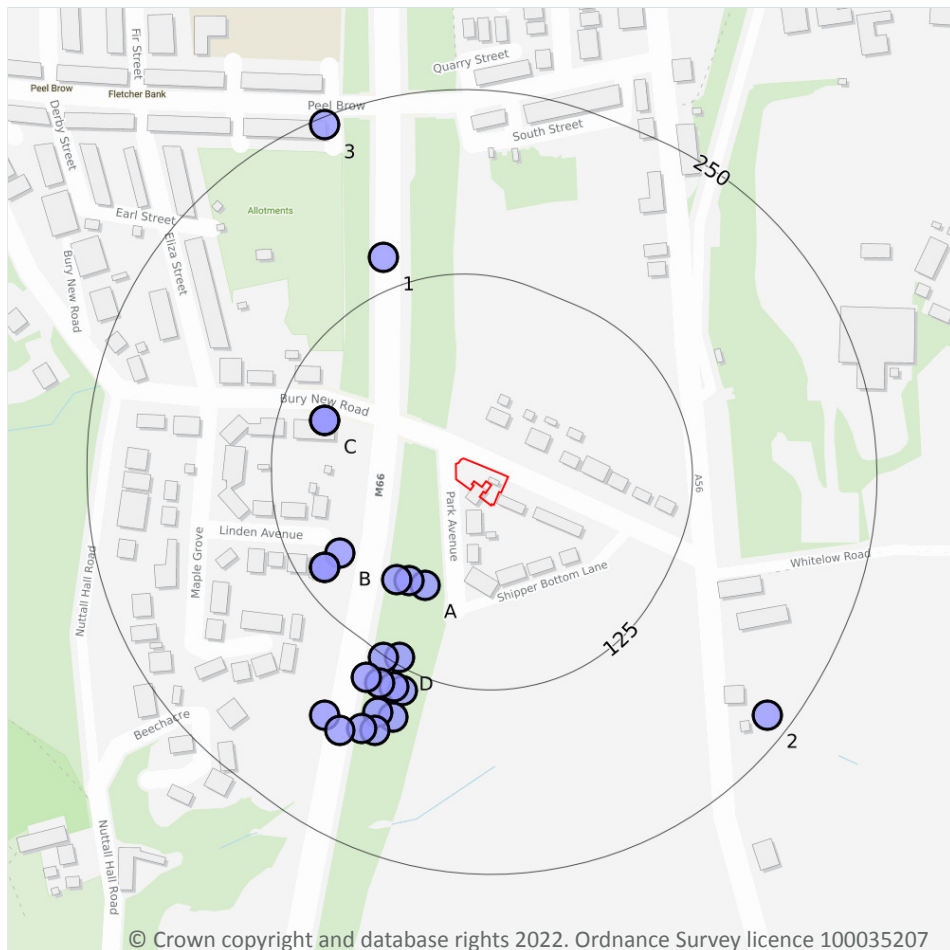


ID	Location	Category	Description
9	166m SW	FOSSIL_HORIZON	Marine band
11	235m S	FAULT	Fault, inferred
16	463m SE	FOSSIL_HORIZON	Marine band

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

23

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 103**

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	70m SW	379868 416488	M66 JUNCTION 0 TO 2 WS48	4.45	N	18359311
A	75m SW	379857 416491	M66 JUNCTION 0 TO 2 WS47	4.3	N	18359310
A	79m SW	379849 416492	M66 JUNCTION 0 TO 2 WS46	2.2	N	18359306

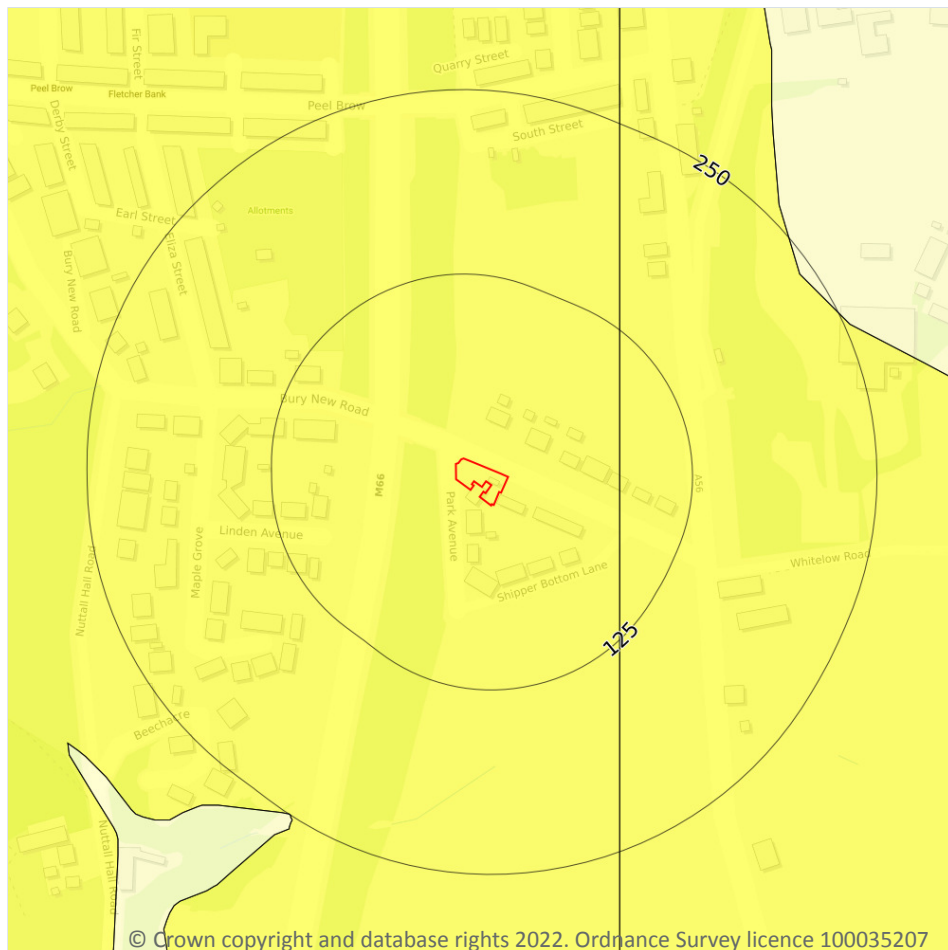


ID	Location	Grid reference	Name	Length	Confidential	Web link
B	94m SW	379810 416510	M66 BURY EASTERLY BY-PASS. 150	-2.0	N	22517
C	94m W	379800 416600	M66 BURY EASTERLY BY-PASS. 5881/1-4A	-2.0	N	22520
C	94m W	379800 416600	M66 BURY EASTERLY BY-PASS. 152E-W	-2.0	N	22521
B	107m SW	379800 416500	M66 BURY EASTERLY BY-PASS. 151E-W	-2.0	N	22519
B	107m SW	379800 416500	M66 BURY EASTERLY BY-PASS. 147A	-2.0	N	22518
D	120m SW	379851 416439	M66 JUNCTION 0 TO 2 WS50	1.6	N	18359317
D	126m SW	379840 416439	M66 JUNCTION 0 TO 2 WS49	1.6	N	18359313
D	139m SW	379853 416417	M66 JUNCTION 0 TO 2 WS53	3.7	N	18359331
D	140m SW	379847 416419	M66 JUNCTION 0 TO 2 WS52	5.2	N	18359327
D	142m SW	379837 416422	M66 JUNCTION 0 TO 2 WS51	0.2	N	18359323
D	144m SW	379828 416426	M66 JUNCTION 0 TO 2 04	7.3	N	18359207
1	146m N	379840 416710	M66 BURY EASTERLY BY-PASS. 153	-2.0	N	22522
D	158m SW	379846 416399	M66 JUNCTION 0 TO 2 WS55	3.2	N	18359336
D	160m SW	379836 416402	M66 JUNCTION 0 TO 2 WS54	2.8	N	18359334
D	171m SW	379834 416390	M66 JUNCTION 0 TO 2 WS57	3.7	N	18359347
D	175m SW	379825 416391	M66 JUNCTION 0 TO 2 WS56	3.9	N	18359339
D	181m SW	379800 416400	M66 BURY EASTERLY BY-PASS. 146A,149E-W	-2.0	N	22516
D	184m SW	379810 416390	M66 BURY EASTERLY BY-PASS. 145E	-2.0	N	22515
2	234m SE	380100 416400	SHIPPERBOTTOM HOUSE	-2.0	N	29706
3	245m N	379800 416800	M66 BURY EASTERLY BY-PASS. 5882/1-4	-2.0	N	22523

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.1 Shrink swell clays

Records within 50m

1

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).

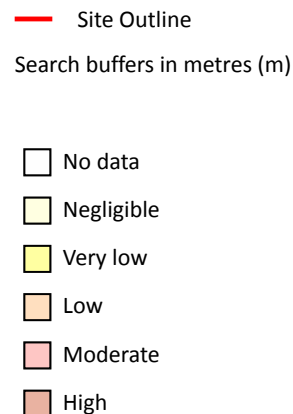
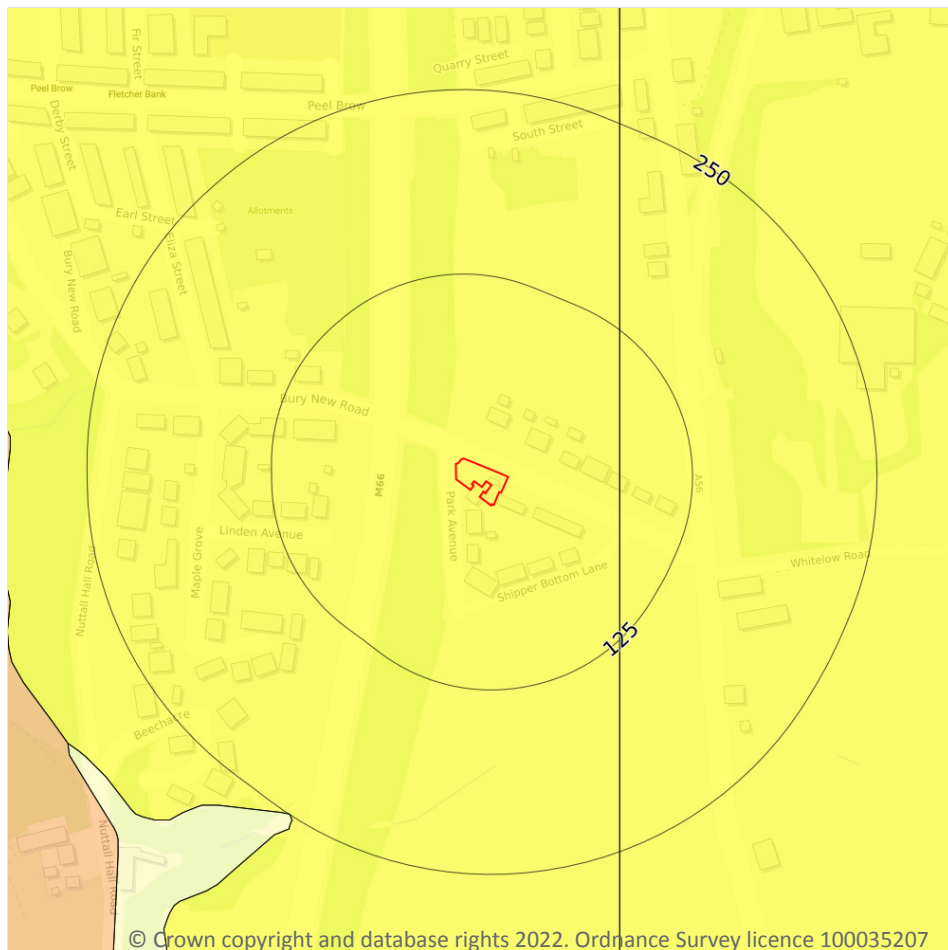
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 105**

Location	Hazard rating	Details
On site	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.

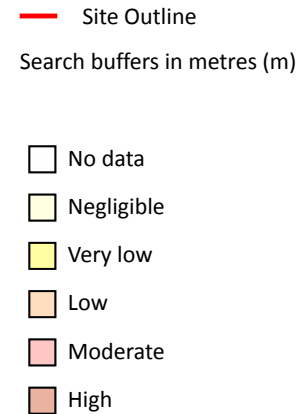
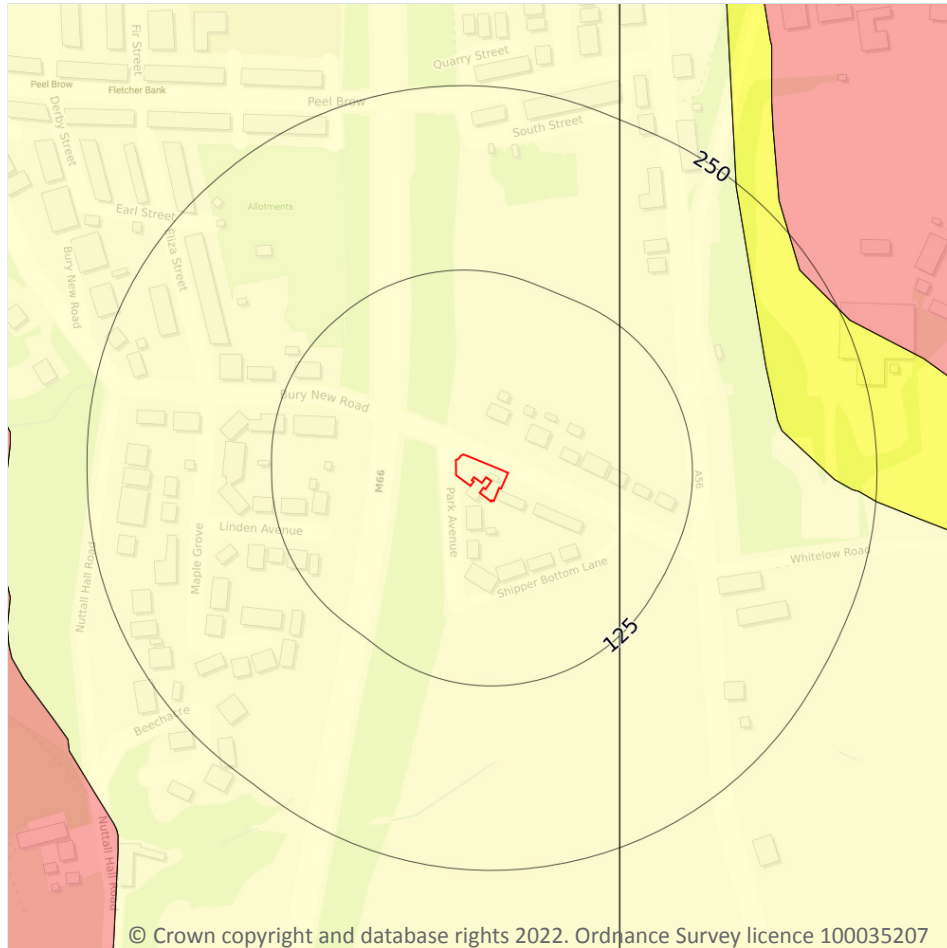
Features are displayed on the Natural ground subsidence - Running sands map on **page 106**

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.

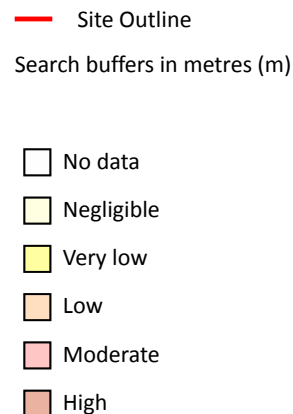
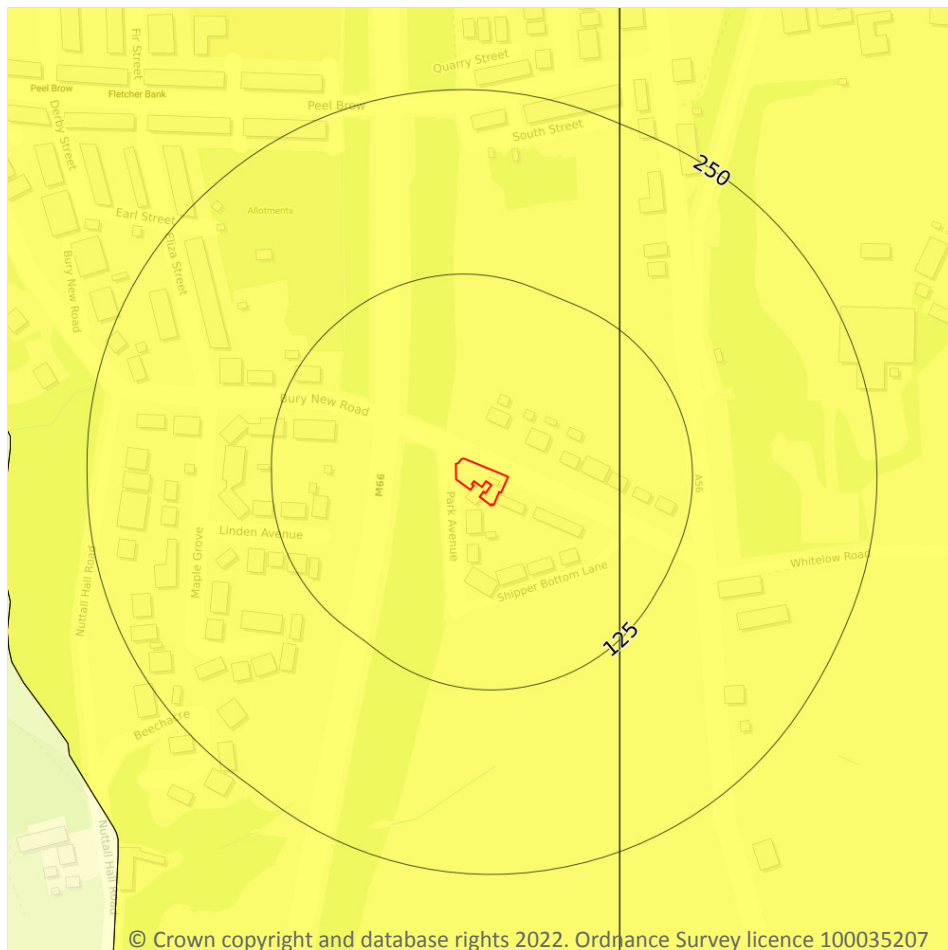
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 107**

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.

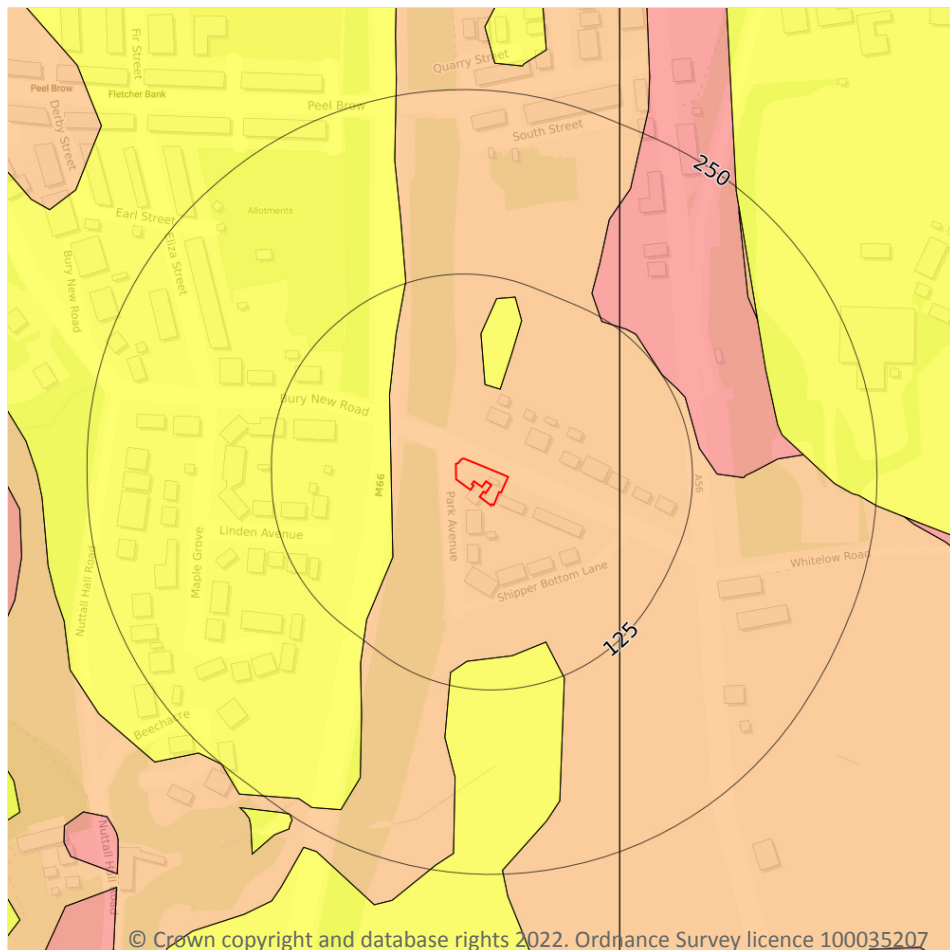
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 108**

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



- Site Outline**
- Search buffers in metres (m)**
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.5 Landslides

Records within 50m

2

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

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

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

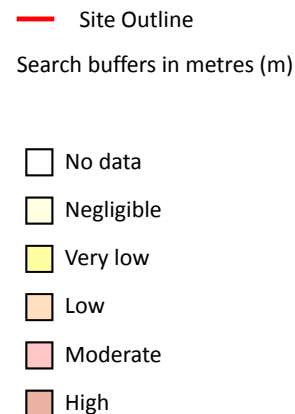
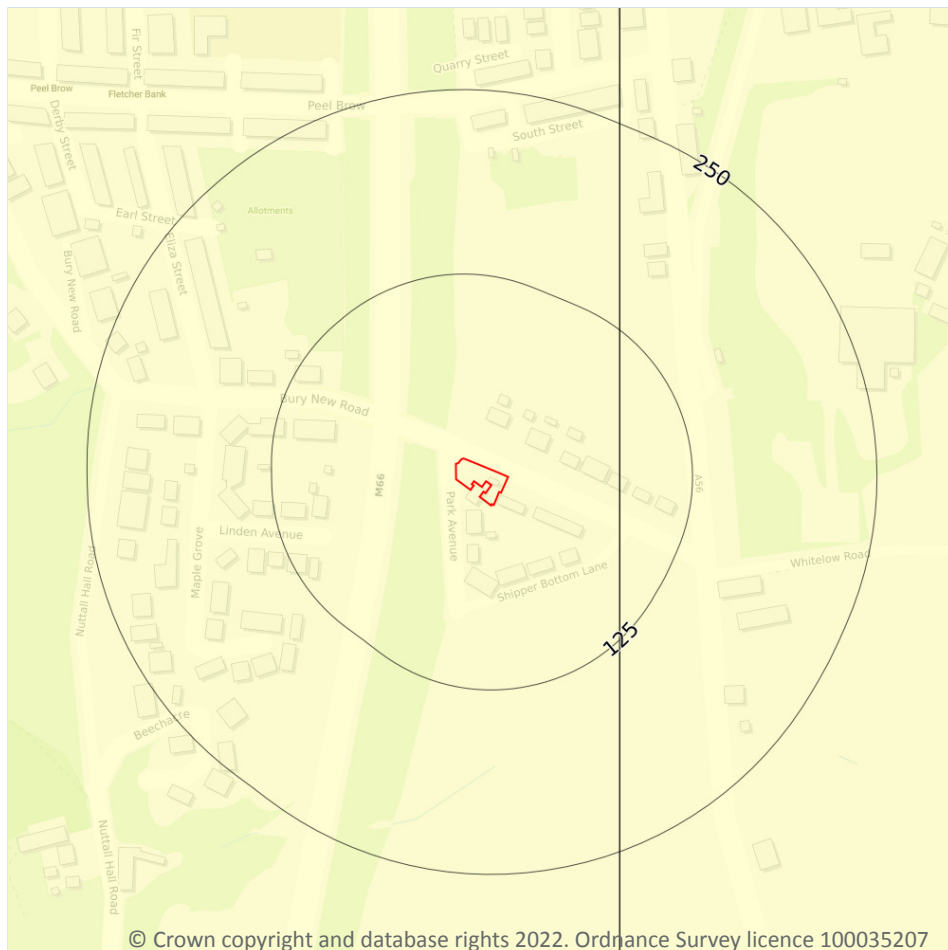


Location	Hazard rating	Details
44m W	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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.

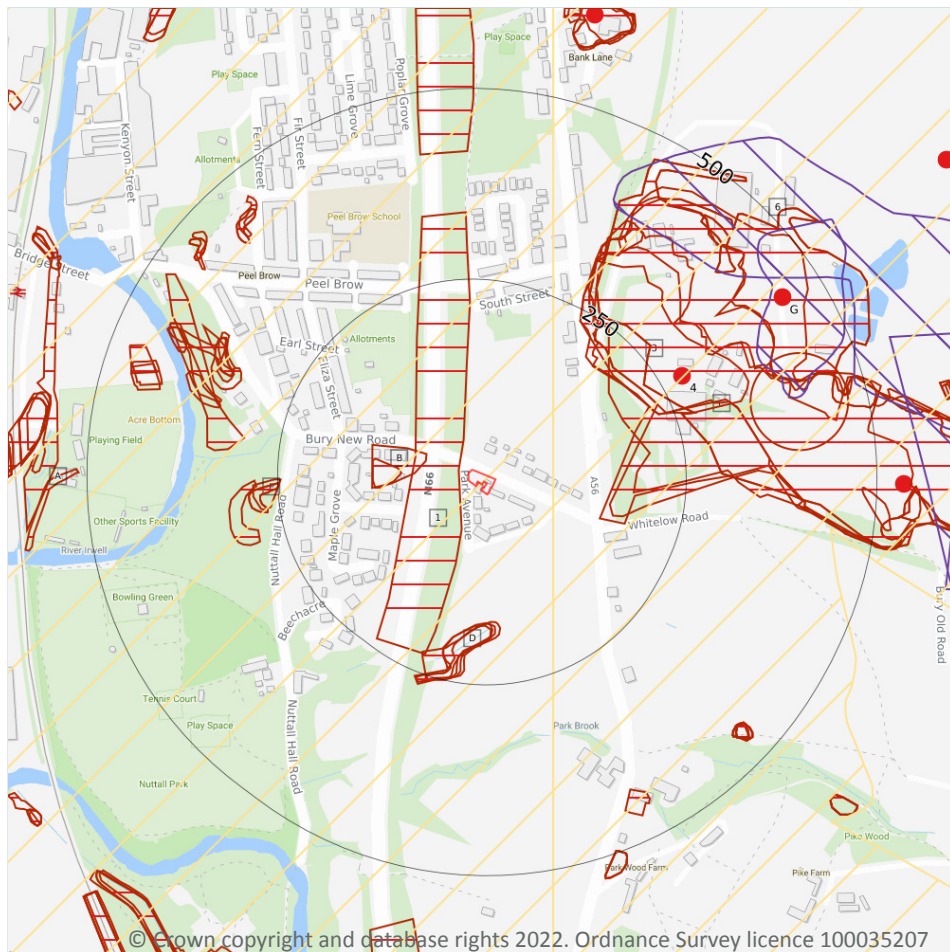
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 111**

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 113**

ID	Location	Details	Description
4	279m NE	Name: Fletcher Bank Quarry Address: Bank Lane, RAMSBOTTOM, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
G	444m NE	Name: Fletcher Bank Quarry Address: Shuttleworth, RAMSBOTTOM, Lancashire Commodity: Sandstone Status: Inactive	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, is not extracting minerals, but which still has a valid planning permission to do so, and can restart at any time. May be considered Mothballed by operator. May be considered to have Active or Dormant planning permission
G	444m NE	Name: Fletcher Bank Quarry Address: Shuttleworth, RAMSBOTTOM, Lancashire Commodity: Sandstone Status: Inactive	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, is not extracting minerals, but which still has a valid planning permission to do so, and can restart at any time. May be considered Mothballed by operator. May be considered to have Active or Dormant planning permission

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

18

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 113**



ID	Location	Land Use	Year of mapping	Mapping scale
1	12m W	Cuttings	1980	1:10000
B	58m W	Refuse Heap	1928	1:10560
B	88m W	Refuse Heap	1938	1:10560
C	146m E	Unspecified Quarry	1938	1:10560
C	153m E	Unspecified Quarry	1928	1:10560
D	167m S	Unspecified Pit	1955	1:10560
D	169m S	Unspecified Pit	1968	1:10560
D	169m S	Unspecified Pit	1938	1:10560
D	173m S	Unspecified Pit	1928	1:10560
C	182m E	Unspecified Quarry	1949	1:10560
3	196m NE	Sandstone Quarry	1851	1:10560
C	206m NE	Unspecified Quarry	1891	1:10560
C	213m NE	Unspecified Quarry	1908	1:10560
C	231m NE	Unspecified Quarry	1967	1:10560
C	231m NE	Unspecified Quarry	1987	1:10000
E	246m W	Refuse Heap	1955	1:10560
E	249m W	Refuse Heap	1948	1:10560
E	249m W	Refuse Heap	1927	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

7

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 113**

ID	Location	Land Use	Year of mapping	Mapping scale
-	855m SW	Tunnel	1980	1:10000
-	855m SW	Tunnel	1968	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	855m SW	Tunnel	1949	1:10560
-	859m SW	Tunnel	1848	1:10560
-	859m SW	Tunnel	1927	1:10560
-	859m SW	Tunnel	1908	1:10560
-	859m SW	Tunnel	1891	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

2

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 113**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
G	380m NE	Fletcher Bank	Sandstone	Surface mineral working	Valid	7/5/68
6	387m NE	Fletcher Bank	Sandstone	Surface mineral working	Valid	7/5/68

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

2

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 113**

ID	Location	Name	Commodity	Class	Likelihood
A	On site	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered



ID	Location	Name	Commodity	Class	Likelihood
2	76m E	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	0
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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
------------------------	----------

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.

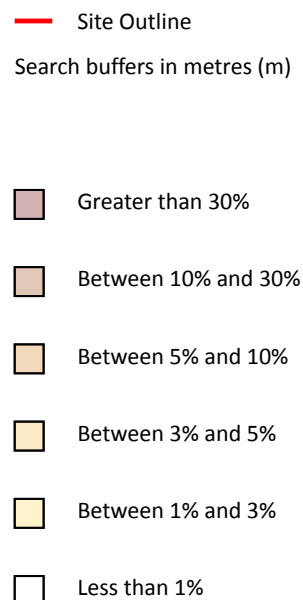
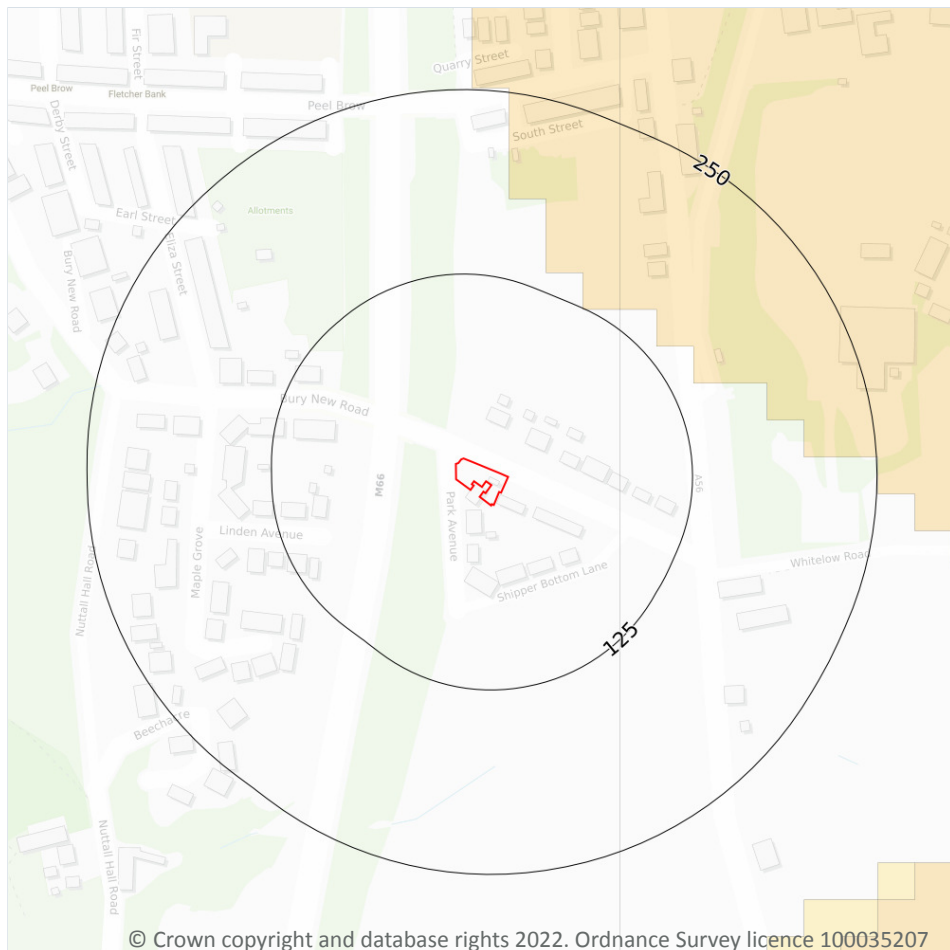
18.13 Clay mining

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

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

19 Radon



19.1 Radon

Records on site

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 119**

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 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
38m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
42m S	15 mg/kg	No data	100 mg/kg	60 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

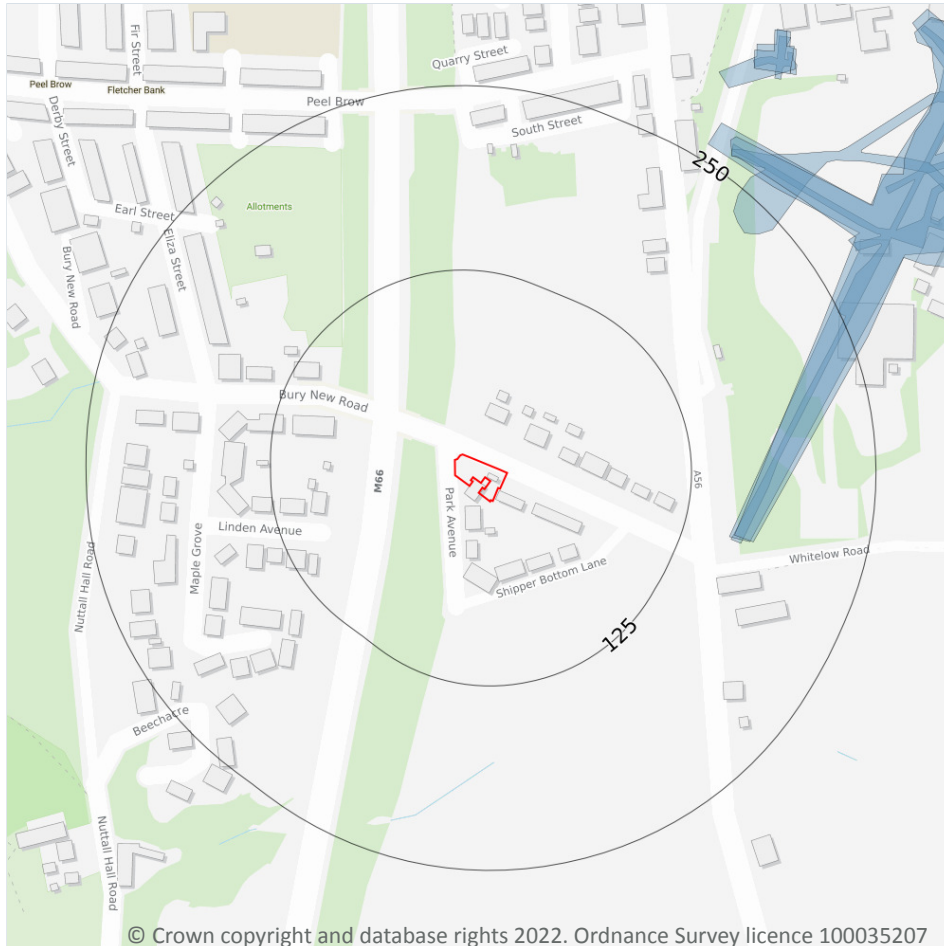
0

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
- Crossrail 1 Worksites
- 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 121**

Location	Land Use	Year of mapping	Mapping scale
157m E	Railway Sidings	1938	10560
158m E	Railway Sidings	1929	2500
160m E	Railway Sidings	1928	10560
229m NE	Tramway Sidings	1938	2500

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.



21.6 Historical railways

Records within 250m**0**

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m**0**

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m**0**

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m**0**

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m**0**

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

This data is sourced from HS2 Ltd.

Data providers

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

Terms and conditions

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

