Annex D

GROUNDSURE INSIGHT REPORT

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

Land South West of Milton Keynes,

Order Details

Date: 05/03/2020

Your ref: 20109168

Our Ref: GSIP-2020-10052-335

Client: WSP UK LIMITED

Site Details

Location: 483257 232690

Area: 145.31 ha

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

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	Historical industrial land uses	2	3	7	19	-
15	1.2	Historical tanks	0	0	2	0	-
15	1.3	Historical energy features	0	0	3	7	-
16	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
16	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
17	2.1	Historical industrial land uses	2	3	7	23	-
19	2.2	Historical tanks	0	0	3	0	-
19	2.3	Historical energy features	0	0	7	12	-
20	2.4	Historical petrol stations	0	0	0	0	-
20	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
21	3.1	Active or recent landfill	0	0	0	0	-
21	3.2	Historical landfill (BGS records)	0	0	0	0	-
22	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
22	3.4	Historical landfill (EA/NRW records)	0	0	0	1	-
22	3.5	Historical waste sites	0	0	0	0	-
22	3.6	Licensed waste sites	0	0	1	0	-
23	3.7	Waste exemptions	42	7	0	3	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
28	4.1	Recent industrial land uses	2	3	18	-	-
30	4.2	Current or recent petrol stations	0	0	0	0	-
30	4.3	Electricity cables	0	0	0	0	-
30	4.4	Gas pipelines	0	0	0	0	-
30	4.5	Sites determined as Contaminated Land	0	0	0	0	-

31	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
31	4.7	Regulated explosive sites	0	0	0	0	-
31	4.8	Hazardous substance storage/usage	0	0	0	0	-
31	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
31	**4.10**	**Licensed industrial activities (Part A(1))**	0	0	5	0	-
33	**4.11**	**Licensed pollutant release (Part A(2)/B)**	0	0	0	1	-
33	4.12	Radioactive Substance Authorisations	0	0	0	0	-
33	**4.13**	**Licensed Discharges to controlled waters**	0	1	5	8	-
36	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
36	4.15	Pollutant release to public sewer	0	0	0	0	-
36	4.16	List 1 Dangerous Substances	0	0	0	0	-
36	**4.17**	**List 2 Dangerous Substances**	0	0	2	0	-
37	**4.18**	**Pollution Incidents (EA/NRW)**	5	1	7	3	-
38	**4.19**	**Pollution inventory substances**	0	0	1	0	-
39	**4.20**	**Pollution inventory waste transfers**	0	0	1	0	-
42	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
43	**5.1**	**Superficial aquifer**	Identified (within 500m)				
45	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
46	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
48	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
49	5.5	Groundwater vulnerability- local information	None (within 0m)				
50	**5.6**	**Groundwater abstractions**	0	0	0	1	1
51	**5.7**	**Surface water abstractions**	0	0	0	0	4
52	5.8	Potable abstractions	0	0	0	0	0
53	5.9	Source Protection Zones	0	0	0	0	-
53	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
54	**6.1**	**Water Network (OS MasterMap)**	11	17	23	-	-

59	6.2	Surface water features	1	8	25	-	-
59	6.3	WFD Surface water body catchments	2	-	-	-	-
59	6.4	WFD Surface water bodies	0	0	0	-	-
60	6.5	WFD Groundwater bodies	0	-	-	-	-

Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
61	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	High (within 50m)				
62	7.2	Historical Flood Events	0	0	0	-	-
62	7.3	Flood Defences	0	0	0	-	-
62	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
62	7.5	Flood Storage Areas	0	0	0	-	-
63	7.6	Flood Zone 2	Identified (within 50m)				
64	7.7	Flood Zone 3	Identified (within 50m)				

Page	Section	Surface water flooding	
65	8.1	Surface water flooding	1 in 30 year, Greater than 1.0m (within 50m)

Page	Section	Groundwater flooding	
67	9.1	Groundwater flooding	Moderate (within 50m)

Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
68	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	1
69	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
69	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
69	10.4	Special Protection Areas (SPA)	0	0	0	0	0
69	10.5	National Nature Reserves (NNR)	0	0	0	0	0
70	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
70	10.7	Designated Ancient Woodland	0	1	0	0	13
71	10.8	Biosphere Reserves	0	0	0	0	0
71	10.9	Forest Parks	0	0	0	0	0
71	10.10	Marine Conservation Zones	0	0	0	0	0
71	10.11	Green Belt	0	0	0	0	0
71	10.12	Proposed Ramsar sites	0	0	0	0	0

72	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
72	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
72	10.15	Nitrate Sensitive Areas	0	0	0	0	0
72	10.16	Nitrate Vulnerable Zones	2	0	0	0	0
74	10.17	SSSI Impact Risk Zones	4	-	-	-	-
75	10.18	SSSI Units	0	0	0	0	1
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
77	11.1	World Heritage Sites	0	0	0	-	-
77	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
77	11.3	National Parks	0	0	0	-	-
77	11.4	Listed Buildings	0	0	0	-	-
78	11.5	Conservation Areas	0	0	0	-	-
78	11.6	Scheduled Ancient Monuments	0	0	0	-	-
78	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
79	12.1	Agricultural Land Classification	Grade 3b (within 250m)				
81	12.2	Open Access Land	0	0	0	-	-
81	12.3	Tree Felling Licences	3	0	0	-	-
82	12.4	Environmental Stewardship Schemes	0	1	1	-	-
82	12.5	Countryside Stewardship Schemes	0	0	1	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
83	13.1	Priority Habitat Inventory	10	10	21	-	-
85	13.2	Habitat Networks	3	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	14.1	10k Availability	Identified (within 500m)				
88	14.2	Artificial and made ground (10k)	4	1	1	3	-
90	14.3	Superficial geology (10k)	3	0	6	3	-

91	14.4	Landslip (10k)	0	0	0	0	-
92	14.5	Bedrock geology (10k)	2	0	0	0	-
93	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
94	15.1	50k Availability	Identified (within 500m)				
95	15.2	Artificial and made ground (50k)	0	0	0	2	-
96	15.3	Artificial ground permeability (50k)	0	0	-	-	-
97	15.4	Superficial geology (50k)	4	0	5	2	-
98	15.5	Superficial permeability (50k)	Identified (within 50m)				
98	15.6	Landslip (50k)	0	0	0	0	-
99	15.7	Landslip permeability (50k)	None (within 50m)				
100	15.8	Bedrock geology (50k)	3	1	0	0	-
101	15.9	Bedrock permeability (50k)	Identified (within 50m)				
101	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
102	16.1	BGS Boreholes	7	62	100	-	-
Page	Section	Natural ground subsidence					
110	17.1	Shrink swell clays	Moderate (within 50m)				
112	17.2	Running sands	Low (within 50m)				
114	17.3	Compressible deposits	Moderate (within 50m)				
116	17.4	Collapsible deposits	Very low (within 50m)				
117	17.5	Landslides	Low (within 50m)				
119	17.6	Ground dissolution of soluble rocks	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
121	18.1	Natural cavities	0	0	0	0	-
122	18.2	BritPits	0	0	0	1	-
122	18.3	Surface ground workings	0	0	6	-	-
123	18.4	Underground workings	0	0	0	0	0
123	18.5	Historical Mineral Planning Areas	0	0	0	1	-

123	18.6	Non-coal mining	0	0	0	0	0
123	18.7	Mining cavities	0	0	0	0	0
124	18.8	JPB mining areas	None (within 0m)				
124	18.9	Coal mining	None (within 0m)				
124	18.10	Brine areas	None (within 0m)				
124	18.11	Gypsum areas	None (within 0m)				
124	18.12	Tin mining	None (within 0m)				
125	18.13	Clay mining	None (within 0m)				

Page	Section	Radon					
126	**19.1**	**Radon**	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
127	**20.1**	**BGS Estimated Background Soil Chemistry**	24	6	-	-	-
129	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
129	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
130	21.1	Underground railways (London)	0	0	0	-	-
130	21.2	Underground railways (Non-London)	0	0	0	-	-
131	21.3	Railway tunnels	0	0	0	-	-
131	**21.4**	**Historical railway and tunnel features**	2	3	0	-	-
131	21.5	Royal Mail tunnels	0	0	0	-	-
132	21.6	Historical railways	0	0	0	-	-
132	**21.7**	**Railways**	0	1	0	-	-
132	21.8	Crossrail 1	0	0	0	0	-
132	21.9	Crossrail 2	0	0	0	0	-
132	21.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 11/08/2017

Site Area: 145.31ha

Recent site history - 2015 aerial photograph

Capture Date: 03/07/2015

Site Area: 145.31ha

Recent site history - 2012 aerial photograph

Capture Date: 07/09/2012

Site Area: 145.31ha

Recent site history - 2000 aerial photograph

Capture Date: 17/06/2000

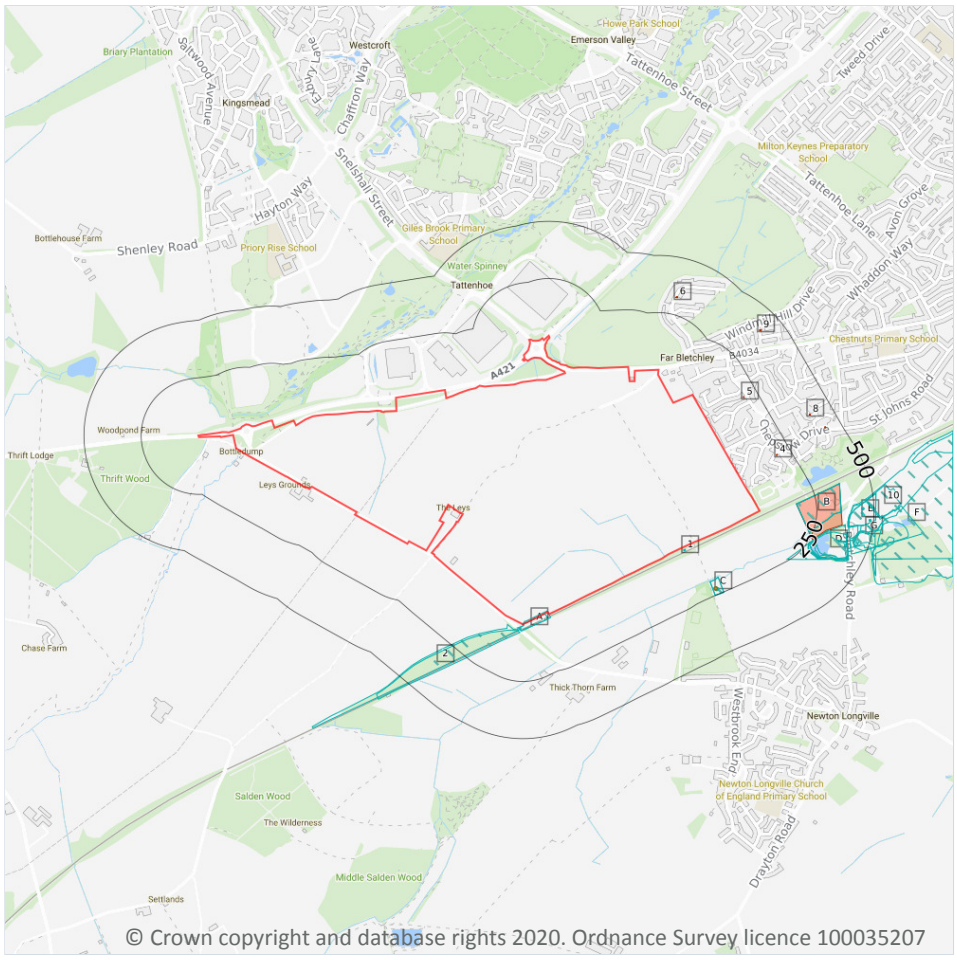
Site Area: 145.31ha

Recent site history - 1999 aerial photograph

Capture Date: 02/09/1999

Site Area: 145.31ha

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	31

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
A	**On site**	**Railway Sidings**	**1950**	**1784879**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Railway Sidings**	**1968**	**1834014**
1	11m SE	Railway Building	1968	1765465
2	30m SW	Railway Sidings	1968	1851068
3	35m SW	Railway Sidings	1950	1794376
B	164m E	Natural Gas Reception Centre	1988	1810334
B	164m E	Natural Gas Reception Centre	1975	1823579
C	181m SE	Sewage Works	1975	1822783
C	181m SE	Sewage Works	1988	1841864
C	219m S	Unspecified Tank	1988	1788090
C	219m S	Unspecified Tank	1975	1812754
D	242m SE	Brick Works	1898	1764208
D	256m SE	Unspecified Ground Workings	1968	1821675
D	257m SE	Unspecified Pit	1938	1788948
D	259m SE	Unspecified Pit	1950	1820980
D	263m SE	Unspecified Ground Workings	1898 - 1924	1822621
7	387m SE	Refuse Heap	1882	1770859
E	389m E	Unspecified Commercial/Industrial	1988	1783607
E	389m E	Unspecified Commercial/Industrial	1968 - 1975	1818223
F	392m E	Brick Works	1950	1811704
G	394m E	Bricks Works	1924	1778988
G	425m E	Unspecified Ground Workings	1967 - 1968	1781406
F	428m E	Clay Pit	1950	1846943
G	432m E	Unspecified Pit	1924	1777656
E	444m E	Unspecified Tank	1924	1768847
E	447m E	Chimney	1988	1783736
E	447m E	Chimney	1975	1806963
E	451m E	Unspecified Tank	1924	1768848
10	470m E	Brick Works	1938	1848701

ID	Location	Land use	Dates present	Group ID
E	481m E	Chimney	1975	1815624
E	481m E	Chimney	1988	1820962

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 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
C	215m S	Unspecified Tank	1984 - 1990	294252
C	216m S	Unspecified Tank	1970	293612

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**10**

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
B	164m E	Natural Gas Reception Centre	1970 - 1992	180955
4	187m NE	Electricity Substation	1989 - 1999	181138
5	188m NE	Electricity Substation	1990 - 1992	179819
6	325m N	Electricity Substation	1974 - 1992	182033

ID	Location	Land use	Dates present	Group ID
8	399m NE	Electricity Substation	1988 - 1999	179869
9	406m NE	Electricity Substation	1974 - 1992	183752
H	431m NE	Gas Governor	1999	172015
H	432m NE	Gas Governor	1990	172957
H	432m NE	Gas Governor	1988	173322
H	432m NE	Gas Governor	1989	173336

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

This data is sourced from Ordnance Survey / Groundsure.

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

This data is sourced from Ordnance Survey / Groundsure.

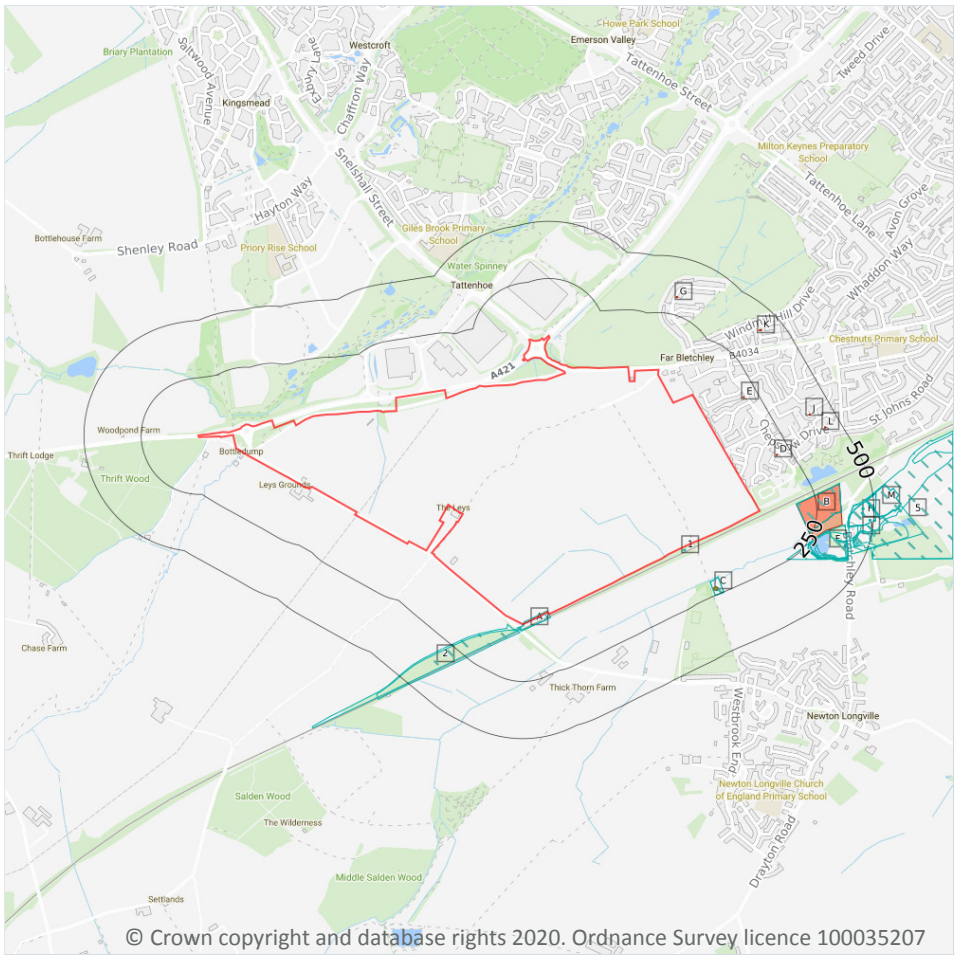
1.6 Historical military land

Records within 500m	**0**

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

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

2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m	35

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 17**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Railway Sidings**	**1950**	**1784879**
A	**On site**	**Railway Sidings**	**1968**	**1834014**
1	11m SE	Railway Building	1968	1765465

ID	Location	Land Use	Date	Group ID
2	30m SW	Railway Sidings	1968	1851068
3	35m SW	Railway Sidings	1950	1794376
B	164m E	Natural Gas Reception Centre	1988	1810334
B	164m E	Natural Gas Reception Centre	1975	1823579
C	181m SE	Sewage Works	1988	1841864
C	181m SE	Sewage Works	1975	1822783
C	219m S	Unspecified Tank	1988	1788090
C	219m S	Unspecified Tank	1975	1812754
F	242m SE	Brick Works	1898	1764208
F	256m SE	Unspecified Ground Workings	1968	1821675
F	257m SE	Unspecified Pit	1938	1788948
F	257m SE	Unspecified Pit	1938	1788948
F	259m SE	Unspecified Pit	1950	1820980
F	263m SE	Unspecified Ground Workings	1924	1822621
F	272m SE	Unspecified Ground Workings	1898	1822621
4	387m SE	Refuse Heap	1882	1770859
H	389m E	Unspecified Commercial/Industrial	1988	1783607
H	389m E	Unspecified Commercial/Industrial	1968	1818223
H	389m E	Unspecified Commercial/Industrial	1975	1818223
5	392m E	Brick Works	1950	1811704
I	394m E	Bricks Works	1924	1778988
6	425m E	Unspecified Ground Workings	1968	1781406
7	428m E	Clay Pit	1950	1846943
I	432m E	Unspecified Pit	1924	1777656
H	444m E	Unspecified Tank	1924	1768847
H	447m E	Chimney	1988	1783736
H	447m E	Chimney	1975	1806963
H	451m E	Unspecified Tank	1924	1768848

ID	Location	Land Use	Date	Group ID
M	470m E	Brick Works	1938	1848701
M	470m E	Brick Works	1938	1848701
H	481m E	Chimney	1988	1820962
H	481m E	Chimney	1975	1815624

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 17**

ID	Location	Land Use	Date	Group ID
C	215m S	Unspecified Tank	1984	294252
C	215m S	Unspecified Tank	1990	294252
C	216m S	Unspecified Tank	1970	293612

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**19**

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 17**

ID	Location	Land Use	Date	Group ID
B	164m E	Natural Gas Reception Centre	1992	180955
B	164m E	Natural Gas Reception Centre	1970	180955
D	187m NE	Electricity Substation	1989	181138
D	187m NE	Electricity Substation	1990	181138

ID	Location	Land Use	Date	Group ID
D	188m NE	Electricity Substation	1999	181138
E	188m NE	Electricity Substation	1990	179819
E	188m NE	Electricity Substation	1992	179819
G	325m N	Electricity Substation	1992	182033
G	326m N	Electricity Substation	1974	182033
J	399m NE	Electricity Substation	1999	179869
J	400m NE	Electricity Substation	1988	179869
J	400m NE	Electricity Substation	1989	179869
J	400m NE	Electricity Substation	1990	179869
K	406m NE	Electricity Substation	1974	183752
K	406m NE	Electricity Substation	1992	183752
L	431m NE	Gas Governor	1999	172015
L	432m NE	Gas Governor	1988	173322
L	432m NE	Gas Governor	1989	173336
L	432m NE	Gas Governor	1990	172957

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

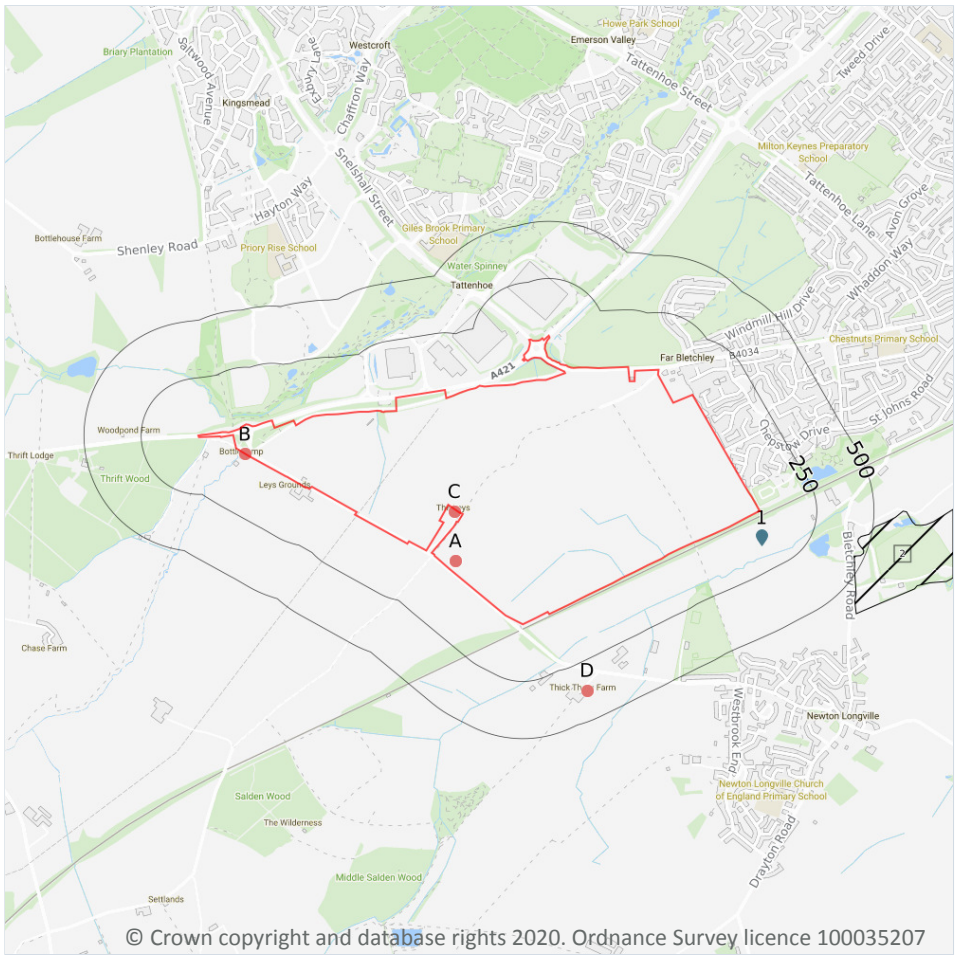
2.5 Historical garages

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Licensed waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	1

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

Features are displayed on the Waste and landfill map on **page 21**

ID	Location	Details		
2	449m E	Site Address: Sports Ground off Bletchley Road, Newton Longville, Milton Keynes Licence Holder Address: -	Waste Licence: Yes Site Reference: WDA/104 Waste Type: Inert, Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 13/04/1978 Licence Surrender: 28/04/1994	Operator: London Brick Land Development Limited Licence Holder: Shanks and McEwan First Recorded 01/01/1969 Last Recorded: 01/04/1994

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	1

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

Features are displayed on the Waste and landfill map on **page 21**

ID	Location	Details		
1	109m SE	Site Name: Shanks Waste Services - Newton Longville Landfill Site Address: Newton Longville Landfill Site, Bletchley Road, Newton Longville, Bucks, MK17 6AB Correspondence Address: Dunedin House, Auckland Park, Mount Farm, Milton Keynes, Bucks, MK1 1BU	Type of Site: Co-Disposal Landfill Site Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SHA013 EPR reference: - Operator: Shanks Waste Services Ltd Waste Management licence No: 70075 Annual Tonnage: 0	Issue Date: 03/10/1983 Effective Date: - Modified:: 07/06/2002 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

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

3.7 Waste exemptions

Records within 500m	**52**

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 21**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	**On site**	**-**	**WEX214252**	**Storing waste exemption**	**On a Farm**	**Storage of waste in a secure place**
A	**On site**	**-**	**WEX214252**	**Storing waste exemption**	**On a Farm**	**Storage of waste in secure containers**
A	**On site**	**-**	**WEX214252**	**Disposing of waste exemption**	**On a Farm**	**Burning waste in the open**
A	**On site**	**-**	**WEX214252**	**Disposing of waste exemption**	**On a Farm**	**Deposit of agricultural waste consisting of plant tissue under a Plant Health notice**
A	**On site**	**-**	**WEX214252**	**Disposing of waste exemption**	**On a Farm**	**Deposit of waste from a portable sanitary convenience**
A	**On site**	**-**	**WEX214252**	**Disposing of waste exemption**	**On a Farm**	**Deposit of waste from dredging of inland waters**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	-	WEX214252	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	On site	-	WEX214252	Treating waste exemption	On a Farm	Screening and blending of waste
A	On site	-	WEX214252	Treating waste exemption	On a Farm	Preparatory treatments (baling, sorting, shredding etc)
A	On site	-	WEX214252	Treating waste exemption	On a Farm	Cleaning, washing, spraying or coating relevant waste
A	On site	-	WEX214252	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
A	On site	-	WEX214252	Using waste exemption	On a Farm	Use of waste for a specified purpose
A	On site	-	WEX214252	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
A	On site	-	WEX214252	Using waste exemption	On a Farm	Use of waste in construction
A	On site	-	WEX058499	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	On site	-	WEX058499	Disposing of waste exemption	On a farm	Deposit of waste from a portable sanitary convenience
A	On site	-	WEX058499	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	On site	-	WEX058499	Disposing of waste exemption	On a farm	Burning waste in the open
A	On site	-	WEX058499	Storing waste exemption	On a farm	Storage of waste in secure containers
A	On site	-	WEX058499	Storing waste exemption	On a farm	Storage of waste in a secure place
A	On site	-	WEX058499	Treating waste exemption	On a farm	Cleaning, washing, spraying or coating relevant waste
A	On site	-	WEX058499	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)

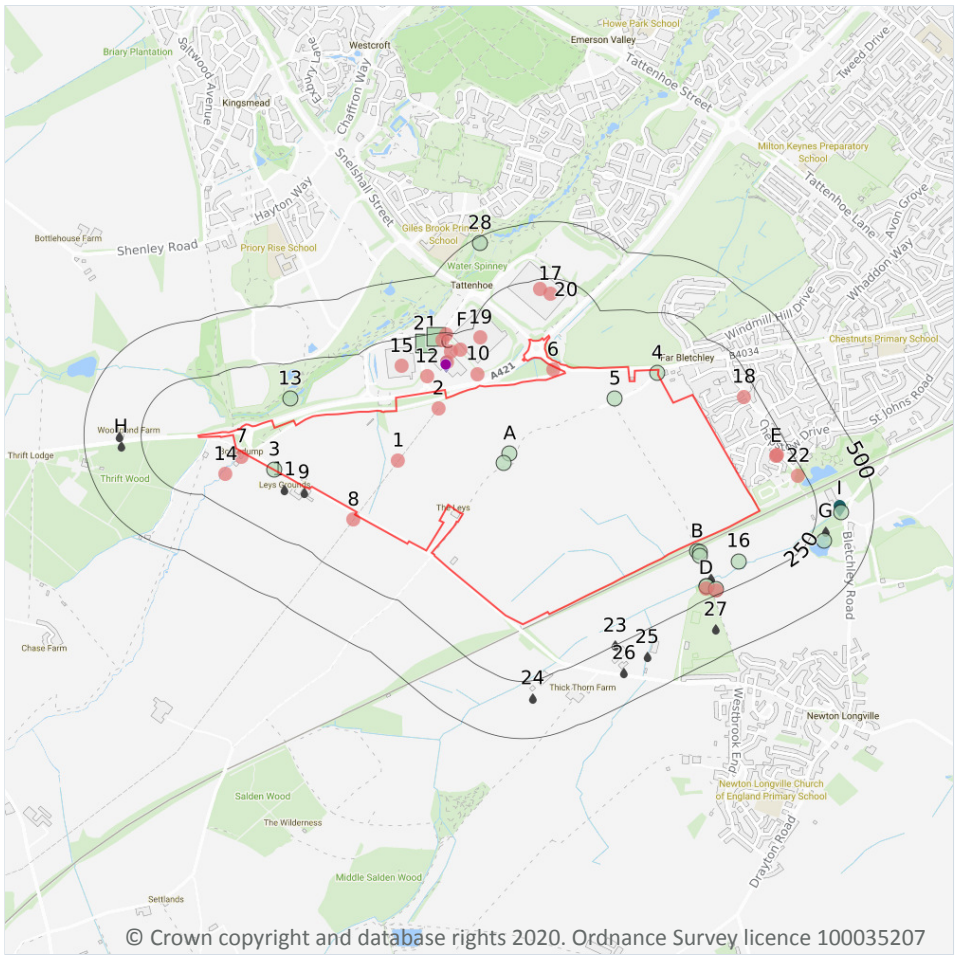
ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	-	WEX058499	Treating waste exemption	On a farm	Screening and blending of waste
A	On site	-	WEX058499	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	On site	-	WEX058499	Using waste exemption	On a farm	Use of waste in construction
A	On site	-	WEX058499	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	On site	-	WEX058499	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
A	On site	-	WEX058499	Using waste exemption	On a farm	Use of waste for a specified purpose
A	On site	Manor Farm Buckingham rd Milton Keynes	EPR/UF0530BV/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
A	On site	Manor Farm Buckingham rd Milton Keynes	EPR/UF0530BV/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from a portable sanitary convenience
A	On site	Manor Farm Buckingham rd Milton Keynes	EPR/UF0530BV/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	On site	Manor Farm Buckingham rd Milton Keynes	EPR/UF0530BV/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
A	On site	Manor Farm Buckingham rd Milton Keynes	EPR/UF0530BV/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in secure containers
A	On site	Manor Farm Buckingham rd Milton Keynes	EPR/UF0530BV/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in a secure place
A	On site	Manor Farm Buckingham rd Milton Keynes	EPR/UF0530BV/A001	Treating waste exemption	Agricultural Waste Only	Cleaning, washing, spraying or coating relevant waste
A	On site	Manor Farm Buckingham rd Milton Keynes	EPR/UF0530BV/A001	Treating waste exemption	Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	**On site**	**Manor Farm Buckingham rd Milton Keynes**	**EPR/UF0530BV/A001**	**Treating waste exemption**	**Agricultural Waste Only**	**Screening and blending of waste**
A	**On site**	**Manor Farm Buckingham rd Milton Keynes**	**EPR/UF0530BV/A001**	**Treating waste exemption**	**Agricultural Waste Only**	**Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising**
A	**On site**	**Manor Farm Buckingham rd Milton Keynes**	**EPR/UF0530BV/A001**	**Using waste exemption**	**Agricultural Waste Only**	**Use of waste in construction**
A	**On site**	**Manor Farm Buckingham rd Milton Keynes**	**EPR/UF0530BV/A001**	**Using waste exemption**	**Agricultural Waste Only**	**Spreading waste on agricultural land to confer benefit**
A	**On site**	**Manor Farm Buckingham rd Milton Keynes**	**EPR/UF0530BV/A001**	**Using waste exemption**	**Agricultural Waste Only**	**Burning of waste as a fuel in a small appliance**
A	**On site**	**Manor Farm Buckingham rd Milton Keynes**	**EPR/UF0530BV/A001**	**Using waste exemption**	**Agricultural Waste Only**	**Use of waste for a specified purpose**
B	5m SW	Bottle Dump Whaddon Road MILTON KEYNES MK17 0EG	EPR/TF0401CZ/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
B	5m SW	Bottle Dump Whaddon Road MILTON KEYNES MK17 0EG	EPR/TF0401CZ/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
B	5m SW	Bottle Dump Whaddon Road MILTON KEYNES MK17 0EG	EPR/TF0401CZ/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	12m SW	Pearce Recycling Group Ltd, Bottledump Roundabout, Whaddon Road, Milton Keynes, MK17 0EG	WEX156862	Storing waste exemption	Not on a Farm	Storage of waste in secure containers
C	12m SW	Pearce Recycling Group Ltd, Bottledump Roundabout, Whaddon Road, Milton Keynes, MK17 0EG	WEX156862	Treating waste exemption	Not on a Farm	Preparatory treatments (baling, sorting, shredding etc)

ID	Location	Site	Reference	Category	Sub-Category	Description
C	12m SW	Pearce Recycling Group Ltd, Bottledump Roundabout, Whaddon Road, Milton Keynes, MK17 0EG	WEX156862	Storing waste exemption	Not on a Farm	Storage of waste in a secure place
C	12m SW	Pearce Recycling Group Ltd, Bottledump Roundabout, Whaddon Road, Milton Keynes, MK17 0EG	WEX156862	Treating waste exemption	Not on a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	374m SE	Thickthorn Farm Whaddon Road MILTON KEYNES MK17 0AT	EPR/HE5283UX/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
D	374m SE	Thickthorn Farm Whaddon Road MILTON KEYNES MK17 0AT	EPR/HE5283UX/A001	Using waste exemption	Agricultural Waste Only	Pig and poultry ash
D	374m SE	Thickthorn Farm Whaddon Road MILTON KEYNES MK17 0AT	EPR/HE5283UX/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose

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

4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m	23

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 28**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Pylon**	**Buckinghamshire, MK17**	**Electrical Features**	**Infrastructure and Facilities**
2	**On site**	**Pylon**	**Buckinghamshire, MK17**	**Electrical Features**	**Infrastructure and Facilities**
6	15m SW	Electricity Sub Station	Buckinghamshire, MK4	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
7	18m SW	Pearce Recycling	Bottle Dump, Whaddon Road, Newton Longville, Milton Keynes, Buckinghamshire, MK17 0EG	Recycling, Reclamation and Disposal	Recycling Services
8	23m SW	Pylon	Buckinghamshire, MK17	Electrical Features	Infrastructure and Facilities
10	52m N	Gas Governor Station	Buckinghamshire, MK4	Gas Features	Infrastructure and Facilities
12	71m N	Gas Governor Station	Buckinghamshire, MK4	Gas Features	Infrastructure and Facilities
14	121m SW	Mast	Buckinghamshire, MK17	Telecommunications Features	Infrastructure and Facilities
C	122m N	Cranswick Convenience Foods	Steinbeck Crescent, Snelshall West, Milton Keynes, Buckinghamshire, MK4 4AE	Fish, Meat and Poultry Products	Foodstuffs
15	133m N	Suzuki	Steinbeck Crescent, Snelshall West, Milton Keynes, Buckinghamshire, MK4 4AE	Distribution and Haulage	Transport, Storage and Delivery
C	169m N	Electricity Sub Station	Buckinghamshire, MK4	Electrical Features	Infrastructure and Facilities
C	180m NW	Electricity Sub Station	Buckinghamshire, MK4	Electrical Features	Infrastructure and Facilities
17	182m N	DHL Supply Chain	1, Pendeen Close, Snelshall West, Milton Keynes, Buckinghamshire, MK4	Distribution and Haulage	Transport, Storage and Delivery
E	183m NE	P C & Tech Home Service	3, Blaydon Close, Bletchley, Milton Keynes, Buckinghamshire, MK3 5LS	Electrical Equipment Repair and Servicing	Repair and Servicing
E	190m NE	Electricity Sub Station	Buckinghamshire, MK3	Electrical Features	Infrastructure and Facilities
18	191m NE	Electricity Sub Station	Buckinghamshire, MK3	Electrical Features	Infrastructure and Facilities
D	204m SE	Mast	Buckinghamshire, MK17	Telecommunications Features	Infrastructure and Facilities
19	205m W	Kuehne + Nagel Ltd	Steinbeck Crescent, Snelshall West, Milton Keynes, Buckinghamshire, MK4 4AE	Distribution and Haulage	Transport, Storage and Delivery
20	208m N	Warehouse	Buckinghamshire, MK4	Container and Storage	Transport, Storage and Delivery

ID	Location	Company	Address	Activity	Category
F	218m N	Electricity Sub Station	Buckinghamshire, MK4	Electrical Features	Infrastructure and Facilities
22	222m NE	Sewage Pumping Station	Buckinghamshire, MK3	Waste Storage, Processing and Disposal	Infrastructure and Facilities
D	234m S	Sewage Works	Buckinghamshire, MK17	Waste Storage, Processing and Disposal	Infrastructure and Facilities
F	244m N	Electricity Sub Station	Buckinghamshire, MK4	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	5

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 28**

ID	Location	Details	
C	112m N	Operator: CRANSWICK CONVENIENCE FOODS LIMITED Installation Name: STEINBECK CRESCENT EPR/FP3831TS Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD >75T/D Permit Number: GP3731EH Original Permit Number: FP3831TS	EPR Reference: - Issue Date: 30/07/2014 Effective Date: 30/07/2014 Last date noted as effective: 30/01/2020 Status: SUPERCEDED
C	112m N	Operator: CRANSWICK CONVENIENCE FOODS LIMITED Installation Name: STEINBECK CRESCENT EPR/FP3831TS Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD >75T/D Permit Number: ZP3135CQ Original Permit Number: FP3831TS	EPR Reference: - Issue Date: 09/03/2012 Effective Date: 09/03/2012 Last date noted as effective: 30/01/2020 Status: SUPERCEDED
C	112m N	Operator: DELICO LTD Installation Name: STEINBECK CRESCENT EPR/YP3035XW Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD >75T/D Permit Number: YP3035XW Original Permit Number: YP3035XW	EPR Reference: - Issue Date: 30/09/2008 Effective Date: 30/09/2008 Last date noted as effective: 30/01/2020 Status: SUPERCEDED
C	112m N	Operator: CRANSWICK CONVENIENCE FOODS LIMITED Installation Name: STEINBECK CRESCENT EPR/FP3831TS Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD >75T/D Permit Number: BP3609PL Original Permit Number: FP3831TS	EPR Reference: - Issue Date: 22/02/2019 Effective Date: 22/02/2019 Last date noted as effective: 30/01/2020 Status: EFFECTIVE
C	112m N	Operator: STUDLEIGH ROYD LTD Installation Name: STEINBECK CRESCENT EPR/FP3831TS Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC ANIMAL RAW MATERIALS (NOT MILK) FOR FOOD >75T/D Permit Number: FP3831TS Original Permit Number: FP3831TS	EPR Reference: - Issue Date: 22/07/2010 Effective Date: 22/07/2010 Last date noted as effective: 30/01/2020 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	1

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

Features are displayed on the Current industrial land use map on **page 28**

ID	Location	Address	Details	
I	348m E	Wrg Waste Services Ltd, Bletchley Landfill Site, Bletchley Road, Newton Longville, MK17 0AB	Process: Landfill Processes 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	14

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 28**

ID	Location	Address	Details	
9	22m SW	BLETCHLEY LEYS FARM, BLETCHLEY	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR1NFG1378 Permit Version: 1 Receiving Water: unknown	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 17/02/1963 Effective Date: 17/02/1963 Revocation Date: 20/02/1991
11	55m SW	BLETCHLEY LEYS GROUNDS FARM, WHADDON RD, NEWTON LONGVILLE, MILTON KEYNES, BUCKS, MK17 0EG	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR1LF2399 Permit Version: 1 Receiving Water: Into Land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 14/08/1986 Effective Date: 14/08/1986 Revocation Date: 01/10/1996

ID	Location	Address	Details	
D	178m S	NEWTON LONGVILLE-WHADDON ROAD PS, OFF WHADDON ROAD, MILTON KEYNES, BUCKINGHAMSHIRE	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: AW1NF1310 Permit Version: 2 Receiving Water: Trib Newton Longville Brook	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 17/03/2002 Effective Date: 18/03/2002 Revocation Date: 30/03/2019
D	178m S	NEWTON LONGVILLE-WHADDON ROAD PS, OFF WHADDON ROAD, MILTON KEYNES, BUCKINGHAMSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES Permit Number: AW1NF1310 Permit Version: 2 Receiving Water: Trib Newton Longville Brook	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 17/03/2002 Effective Date: 18/03/2002 Revocation Date: 30/03/2019
D	178m S	NEWTON LONGVILLE-WHADDON ROAD PS, OFF WHADDON ROAD, MILTON KEYNES, BUCKINGHAMSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: AW1NF1310 Permit Version: 3 Receiving Water: Trib Newton Longville Brook	Status: VARIED UNDER EPR 2010 Issue date: 27/02/2019 Effective Date: 31/03/2019 Revocation Date: -
D	178m S	NEWTON LONGVILLE-WHADDON ROAD PS, OFF WHADDON ROAD, MILTON KEYNES, BUCKINGHAMSHIRE	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: AW1NF1310 Permit Version: 3 Receiving Water: Trib Newton Longville Brook	Status: VARIED UNDER EPR 2010 Issue date: 27/02/2019 Effective Date: 31/03/2019 Revocation Date: -
23	251m SE	MANOR FARM BARN, WHADDON ROAD, NEWTON LONGVILLE, MILTON KEYNES, MK17 0AU	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PRCNF17170 Permit Version: 1 Receiving Water: TRIB WATER EATON BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 18/08/2004 Effective Date: 17/02/2004 Revocation Date: -
G	301m E	NEWTON LONGVILLE LANDFILL SITE, NEWTON LONGVILLE, MILTON KEYNES, BUCKS	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: PR1NF1292 Permit Version: 1 Receiving Water: Newton Longville Brook	Status: REVOKED UNDER EPR 2010 Issue date: 14/04/1981 Effective Date: 14/04/1981 Revocation Date: 13/07/2010

ID	Location	Address	Details	
24	326m S	PLOT 28, MANOR FARM, WHADDON ROAD, NEWTON LONGVILLE, BUCKS, MK17 0AU	Effluent Type: UNSPECIFIED Permit Number: PR1LFU118 Permit Version: 1 Receiving Water: Land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 20/11/1981 Effective Date: 20/11/1981 Revocation Date: 01/10/1996
H	342m W	WOODPOND FARM, BUCKINGHAM ROAD, WHADDON, MILTON KEYNES	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR1NF2022 Permit Version: 1 Receiving Water: Trib Loughton Brook	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 06/03/1985 Effective Date: 06/03/1985 Revocation Date: 02/03/1992
H	345m W	WOODPOND FARM, BUCKINGHAM ROAD, WHADDON, MILTON KEYNES	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR1NF2022 Permit Version: 2 Receiving Water: Trib Loughton Brook	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 03/03/1992 Effective Date: 03/03/1992 Revocation Date: -
25	357m SE	MANOR FARM, NEWTON LONGVILLE, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PRCNF05255 Permit Version: 1 Receiving Water: tributary Water Eaton Brook	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 18/01/1994 Effective Date: 18/01/1994 Revocation Date: -
26	376m SE	WYNDHAM COTTAGE, WHADDON ROAD, NEWTON LONGVILLE, MILTON KEYNES, BUCKINGHAMSHIRE, MK17 0AU	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRMB3992NT Permit Version: 1 Receiving Water: TRIBUTARY OF RIVER OUZEL	Status: NEW ISSUED UNDER EPR 2010 Issue date: 13/06/2019 Effective Date: 13/06/2019 Revocation Date: -
27	386m SE	NEWTON LONGVILLE-WHADDON ROAD PS, OFF WHADDON ROAD, MILTON KEYNES, BUCKINGHAMSHIRE	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: AW1NF1310 Permit Version: 1 Receiving Water: Trib Newton Longville Brook	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 22/06/1983 Effective Date: 22/06/1983 Revocation Date: 17/03/2002

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	2

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.

Features are displayed on the Current industrial land use map on **page 28**

ID	Location	Name	Status	Receiving Water	Authorised Substances
21	213m N	Delico Ltd	Not Active	Na	pH
F	235m N	Delico Ltd	Not Active	Na	pH

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	16

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 28**

ID	Location	Details	
3	**On site**	**Incident Date: 22/02/2002** **Incident Identification: 59981** **Pollutant: Specific Waste Materials** **Pollutant Description: Other Specific Waste Material**	**Water Impact: Category 4 (No Impact)** **Land Impact: Category 3 (Minor)** **Air Impact: Category 4 (No Impact)**
4	**On site**	**Incident Date: 02/07/2002** **Incident Identification: 88776** **Pollutant: General Biodegradable Materials and Wastes** **Pollutant Description: Other General Biodegradable Material or Waste**	**Water Impact: Category 4 (No Impact)** **Land Impact: Category 3 (Minor)** **Air Impact: Category 4 (No Impact)**
5	**On site**	**Incident Date: 12/06/2001** **Incident Identification: 8684** **Pollutant: Specific Waste Materials** **Pollutant Description: Tyres**	**Water Impact: Category 4 (No Impact)** **Land Impact: Category 3 (Minor)** **Air Impact: Category 4 (No Impact)**
A	**On site**	**Incident Date: 15/04/2002** **Incident Identification: 71524** **Pollutant: Inert Materials and Wastes** **Pollutant Description: Construction and Demolition Materials and Wastes**	**Water Impact: Category 4 (No Impact)** **Land Impact: Category 3 (Minor)** **Air Impact: Category 4 (No Impact)**
A	**On site**	**Incident Date: 16/06/2003** **Incident Identification: 166312** **Pollutant: Pollutant Not Identified** **Pollutant Description: Not Identified**	**Water Impact: Category 3 (Minor)** **Land Impact: Category 4 (No Impact)** **Air Impact: Category 4 (No Impact)**
B	42m SE	Incident Date: 16/06/2003 Incident Identification: 166410 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	51m S	Incident Date: 14/09/2002 Incident Identification: 107790 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	63m SE	Incident Date: 06/01/2003 Incident Identification: 129417 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

ID	Location	Details	
13	96m N	Incident Date: 24/06/2003 Incident Identification: 168548 Pollutant: Agricultural Materials and Wastes Pollutant Description: Other Agricultural Material or Waste	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
16	152m SE	Incident Date: 17/03/2003 Incident Identification: 143723 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	197m SE	Incident Date: 09/06/2001 Incident Identification: 8388 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	197m SE	Incident Date: 09/06/2001 Incident Identification: 8388 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	226m S	Incident Date: 16/11/2002 Incident Identification: 121228 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
G	310m SE	Incident Date: 25/09/2006 Incident Identification: 438570 Pollutant: Other Pollutant Pollutant Description: Microbiological	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	354m E	Incident Date: 01/04/2003 Incident Identification: 147882 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
28	474m NW	Incident Date: 08/08/2003 Incident Identification: 180928 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	**1**

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 28**

ID: C, Location: 112m N, Permit: FP3831TS
Operator: Cranswick Convenience Foods Limited
Activity: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY ANIMAL RAW MATERIALS (OTHER THAN MILK ONLY) INTENDED FOR PRODUCTION OF FOOD OR FEED WITH A FINISHED PRODUCT CAPACITY GREATER THAN 75 T/D
Address: Steinbeck Crescent Meat Processing Plant Steinbeck Crescent Milton Keynes Buckinghamshire MK4 4AE
Sector: Food & Drink, Sub-sector: Food & Drink
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Sulphur oxides (SO2 and SO3) as SO2	100000	Below Reporting Threshold
Wastewater	Chlorides - as Cl	2000000	Below Reporting Threshold
Wastewater	Phosphorus - as total P	5000	Below Reporting Threshold
Air	Carbon dioxide	10000000	Below Reporting Threshold
Air	Ammonia	1000	Below Reporting Threshold
Air	Carbon monoxide	100000	Below Reporting Threshold
Air	Nitrous oxide	10000	Below Reporting Threshold
Air	Methane	10000	Below Reporting Threshold
Air	Nitrogen oxides (NO and NO2) as NO2	100000	Below Reporting Threshold
Air	Chlorofluorocarbons (CFCs)	1	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	**1**

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.

Features are displayed on the Current industrial land use map on **page 28**

ID: C, Location: 112m N, Permit: FP3831TS
Operator: Cranswick Convenience Foods Limited
Activity: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY ANIMAL RAW MATERIALS (OTHER THAN MILK ONLY) INTENDED FOR PRODUCTION OF FOOD OR FEED WITH A FINISHED PRODUCT CAPACITY GREATER THAN 75 T/D
Address: Steinbeck Crescent Meat Processing Plant Steinbeck Crescent Milton Keynes Buckinghamshire MK4 4AE
Sector: Food & Drink, Sub-sector: Food & Drink
Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Below Reporting Threshold	Below Reporting Threshold	08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	Below Reporting Threshold	Below Reporting Threshold	15 01 02	plastic packaging	No
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Below Reporting Threshold	Below Reporting Threshold	15 01 06	mixed packaging	No
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.001	Absolute Value	16 03 06	organic wastes other than those mentioned in 16 03 05	No
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.001	Absolute Value	14 06 03	other solvents and solvent mixtures	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.006	Absolute Value	14 06 03	other solvents and solvent mixtures	Yes

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.002	Absolute Value	06 02 01	calcium hydroxide	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.001	Absolute Value	07 04 13	solid wastes containing dangerous substances	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.004	Absolute Value	08 01 11	waste paint and varnish containing organic solvents or other dangerous substances	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.005	Absolute Value	08 04 09	waste adhesives and sealants containing organic solvents or other dangerous substances	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.045	Absolute Value	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	Yes
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	0.0082	Absolute Value	13 05 07	oily water from oil/water separators	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.051	Absolute Value	15 01 10	packaging containing residues of or contaminated by dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.026	Absolute Value	15 01 10	packaging containing residues of or contaminated by dangerous substances	Yes

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.002	Absolute Value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.001	Absolute Value	16 03 05	organic wastes containing dangerous substances	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.002	Absolute Value	16 05 04	gases in pressure containers (including halons) containing dangerous substances	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.001	Absolute Value	16 06 02	Ni-Cd batteries	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.25	Absolute Value	20 01 21	fluorescent tubes and other mercury-containing waste	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.001	Absolute Value	16 03 03	inorganic wastes containing dangerous substances	Yes

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

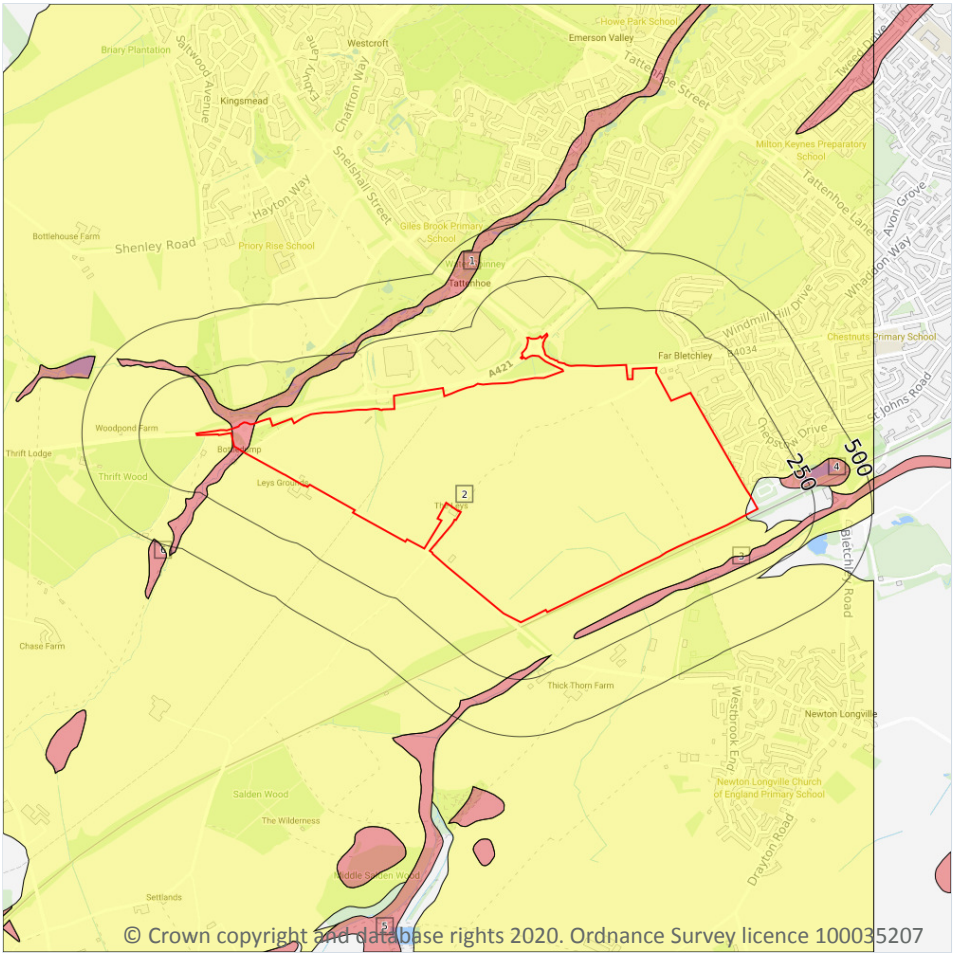
4.21 Pollution inventory radioactive waste

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	6

Aquifer status of groundwater held within superficial geology.

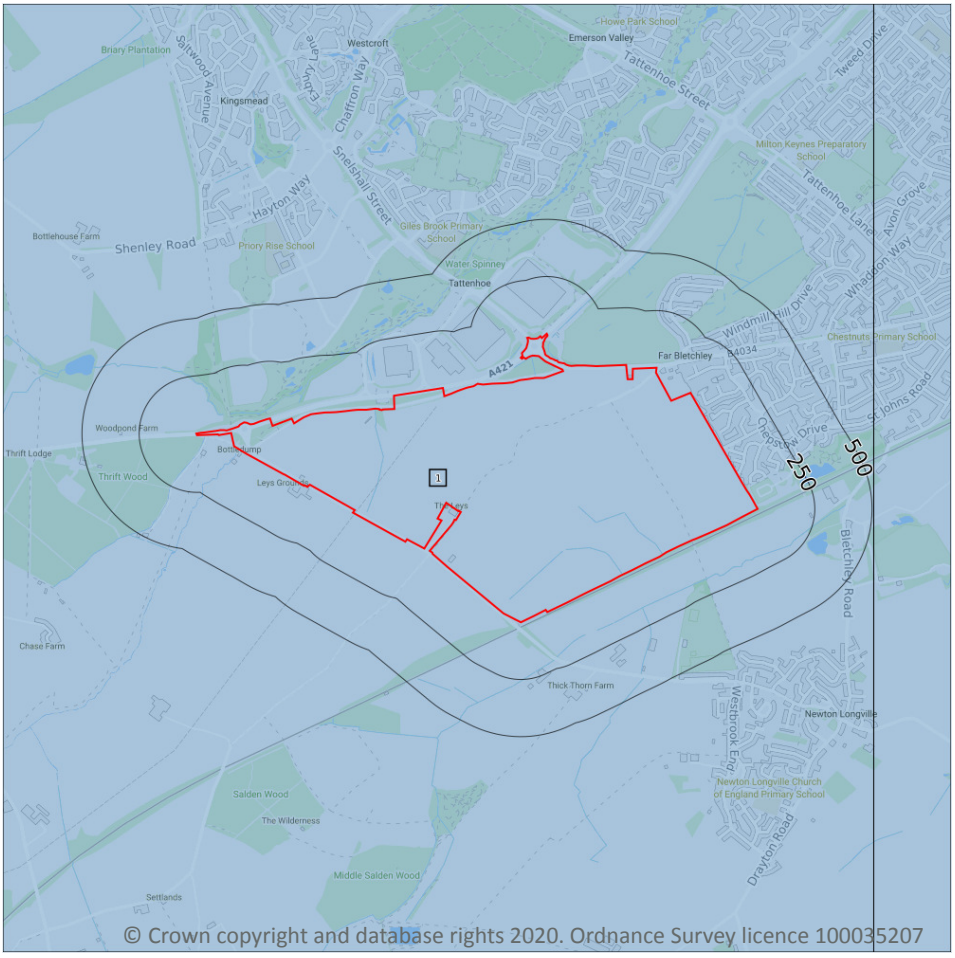
Features are displayed on the Hydrogeology map on **page 43**

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	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

ID	Location	Designation	Description
3	127m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	145m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	183m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	491m S	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	1

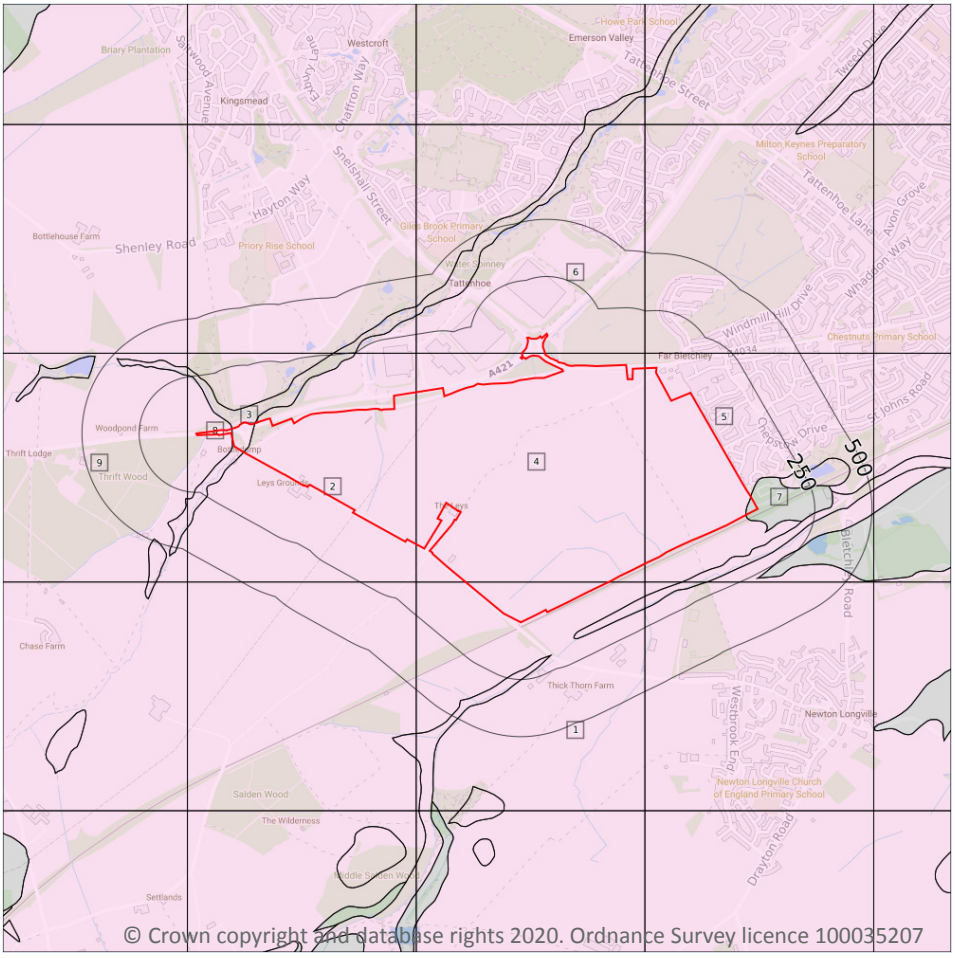
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 45**

ID	Location	Designation	Description
1	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**

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	9

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 46**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
6	**On site**	**Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year**	**Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures**
7	**On site**	**Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year**	**Vulnerability: - Aquifer type: - Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures**
8	**On site**	**Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year**	**Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures**
9	39m W	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: <40% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	**0**

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

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

5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones

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
- 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	2

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 50**

ID	Location	Details	
1	342m W	Status: Historical Licence No: 6/33/05/*G/0031 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: A WELL AT BLETCHLEY Data Type: Point Name: WILLETT Easting: 481700 Northing: 232700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/08/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/08/1966 Version End Date: -
-	1264m W	Status: Historical Licence No: 6/33/02/*G/0032 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: SPRING AT HURDLES GROVE FARM Data Type: Point Name: MERRICK Easting: 480800 Northing: 232900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/10/1966 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m **4**

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 50**

ID	Location	Details	
-	1797m S	Status: Historical Licence No: 6/33/08/*S/0057 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: TRIB. OF RIVER OUZEL Data Type: Point Name: WOOD Easting: 482950 Northing: 230100	Annual Volume (m^3): 31800 Max Daily Volume (m^3): 1750 Original Application No: - Original Start Date: 01/01/1991 Expiry Date: - Issue No: 100 Version Start Date: 01/12/1993 Version End Date: -

ID	Location	Details	
-	1797m S	Status: Active Licence No: 6/33/08/*S/0057 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: TRIBUTARY OF RIVER OUZEL AT NEWTON LONGVILLE Data Type: Point Name: WOOD Easting: 482950 Northing: 230100	Annual Volume (m^3): 31,800 Max Daily Volume (m^3): 1,750 Original Application No: - Original Start Date: 01/01/1991 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2007 Version End Date: -
-	1937m S	Status: Historical Licence No: 6/33/08/*S/0052 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: TRIB OF RIVER OUZEL Data Type: Point Name: WOOD Easting: 483950 Northing: 229950	Annual Volume (m^3): 31800 Max Daily Volume (m^3): 1750 Original Application No: - Original Start Date: 01/09/1988 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2001 Version End Date: -
-	1937m S	Status: Active Licence No: 6/33/08/*S/0052 Details: Spray Irrigation - Storage Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: TRIBUTARY OF RIVER OUZEL AT NEWTON LONGVILLE Data Type: Point Name: WOOD Easting: 483950 Northing: 229950	Annual Volume (m^3): 31,800 Max Daily Volume (m^3): 1,750 Original Application No: - Original Start Date: 30/09/1988 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2007 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

6.1 Water Network (OS MasterMap)

Records within 250m	51

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 54**

ID	Location	Type of water feature	Ground level	Permanence	Name
1	**On site**	**Inland river not influenced by normal tidal action.**	**Not provided**	**Watercourse contains water year round (in normal circumstances)**	-

ID	Location	Type of water feature	Ground level	Permanence	Name
3	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	-
4	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	-
5	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	-
6	**On site**	**Lake, loch or reservoir.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	-
7	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	-
8	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	-
15	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	-
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	-
B	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	-
B	**On site**	**Inland river not influenced by normal tidal action.**	**Not provided**	**Watercourse contains water year round (in normal circumstances)**	-
16	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	-
C	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	-
C	1m 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
C	2m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	3m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	6m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	13m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
18	14m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	19m N	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
F	22m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	22m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	24m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	32m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	34m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	35m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	35m E	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
E	49m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	50m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
21	52m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	56m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
22	66m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	67m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	81m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
25	89m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	107m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	108m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	108m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	154m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	160m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
M	160m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	163m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	165m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
27	167m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	167m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
30	168m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	168m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	171m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
31	174m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	200m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
P	212m S	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	34

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 54**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	2

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

Features are displayed on the Hydrology map on **page 54**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
9	**On site**	**River WB catchment**	**Newton Longville Brook**	**GB105033037840**	**Ouzel and Milton Keynes**	**Upper and Bedford Ouse**
10	**On site**	**River WB catchment**	**Loughton Brook**	**GB105033037900**	**Ouzel and Milton Keynes**	**Upper and Bedford Ouse**

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

6.4 WFD Surface water bodies

Records identified	2

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

Features are displayed on the Hydrology map on **page 54**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	2031m SE	River	Newton Longville Brook	GB105033037840	Poor	Good	Poor	2016
-	4665m N	River	Loughton Brook	GB105033037900	Moderate	Good	Moderate	2016

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

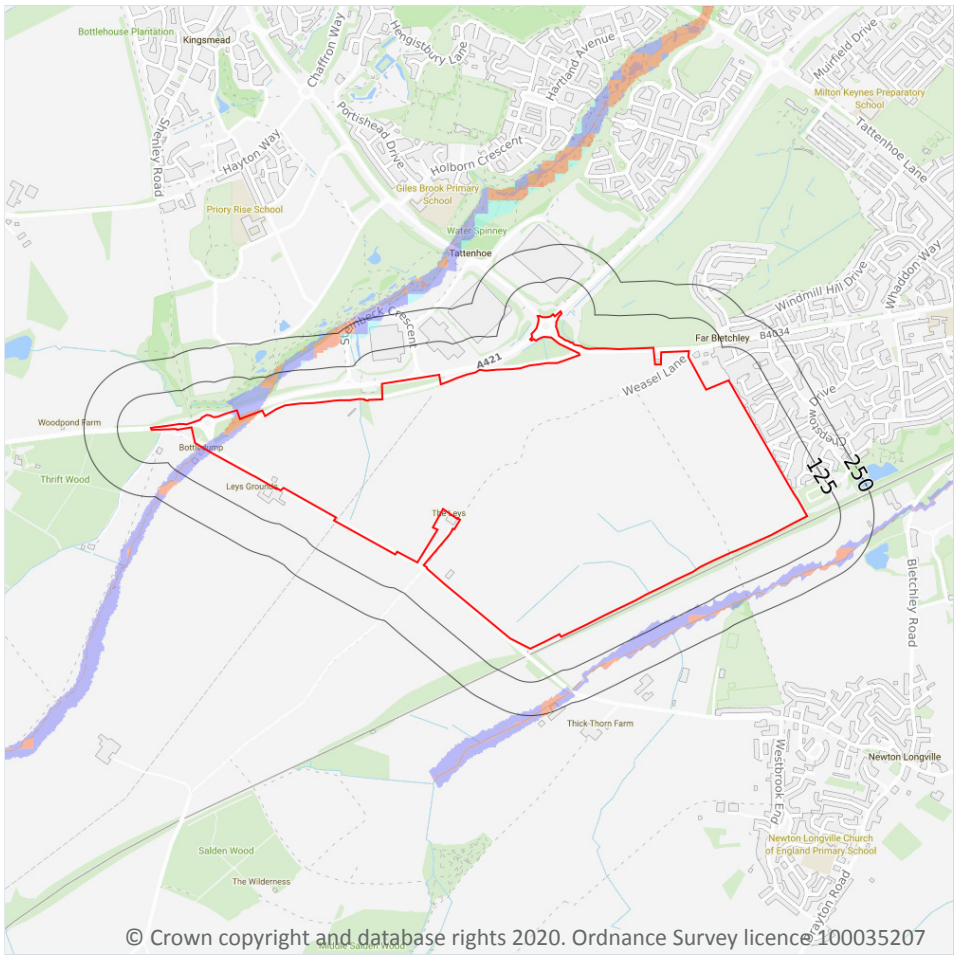
6.5 WFD Groundwater bodies

Records on site	0

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.

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

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

Environment Agency river and coastal flooding:

- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m	**11**

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on **page 61**

Distance	RoFRaS flood risk
On site	**High**
0 - 50m	High

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.

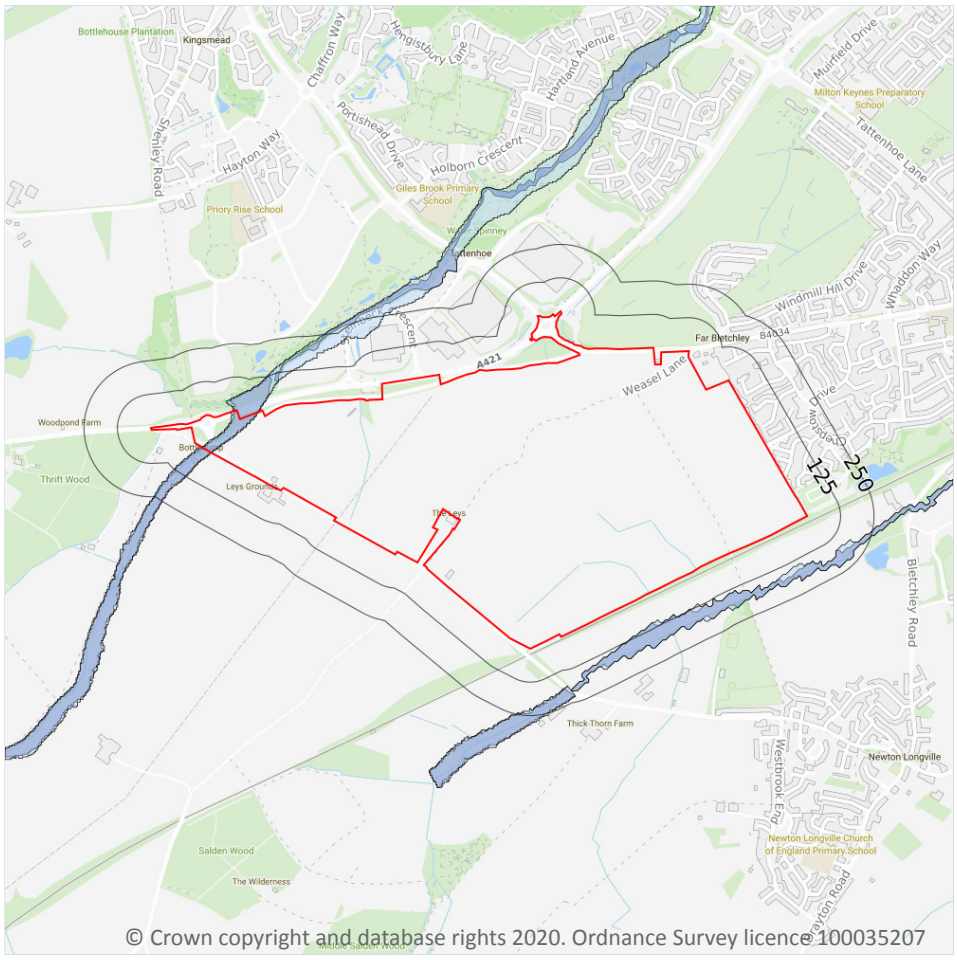
7.5 Flood Storage Areas

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



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

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

Features are displayed on the River and coastal flooding map on **page 61**

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

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

7.7 Flood Zone 3

Records within 50m	1

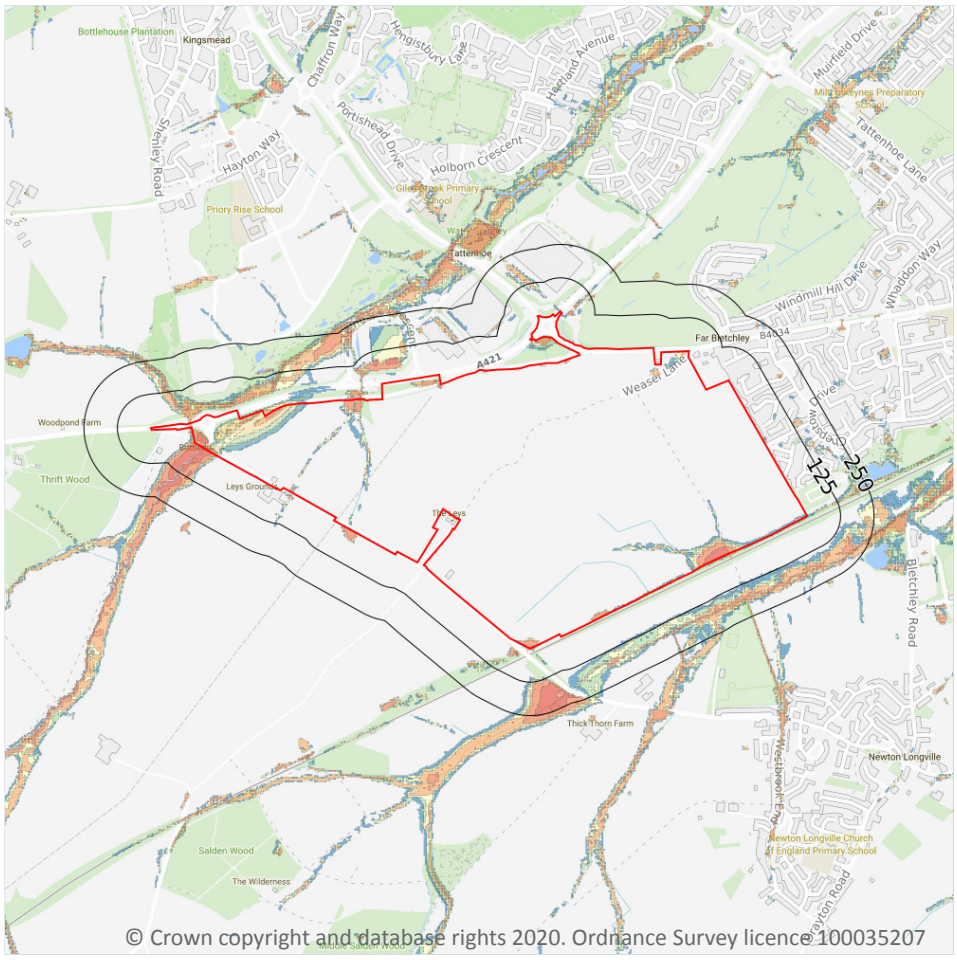
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 61**

Location	Type
On site	**Zone 3 - (Fluvial Models)**

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

8 Surface water flooding



Site Outline

Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site	**1 in 30 year, Greater than 1.0m**
Highest risk within 50m	**1 in 30 year, Greater than 1.0m**

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

Features are displayed on the Surface water flooding map on **page 65**

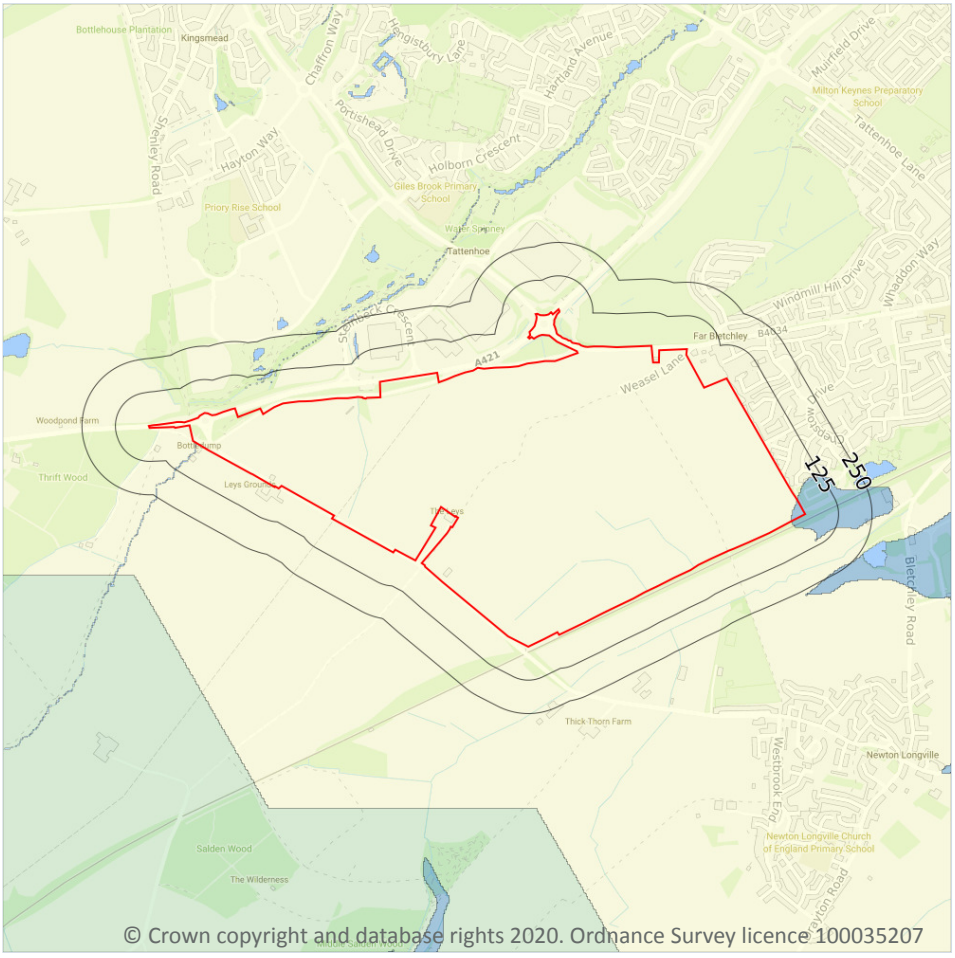
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

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

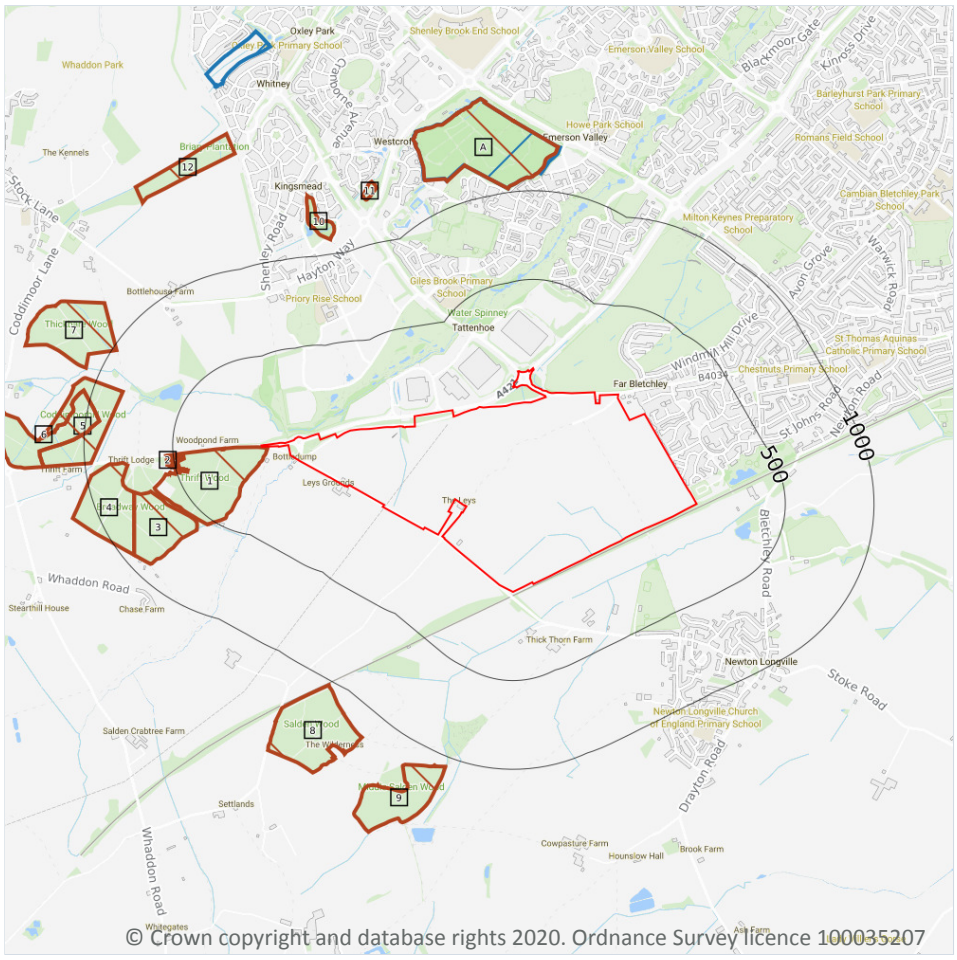
Highest risk on site	**Moderate**
Highest risk within 50m	**Moderate**

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

Features are displayed on the Groundwater flooding map on **page 67**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Local Nature Reserves (LNR)

Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	1

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 68**

ID	Location	Name	Data source
A	1022m N	Howe Park Wood	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

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

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

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

10.7 Designated Ancient Woodland

Records within 2000m	14

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 68**

ID	Location	Name	Woodland Type
1	4m S	Unknown	Ancient Replanted Woodland
2	530m W	Unknown	Ancient Replanted Woodland
3	559m SW	Unknown	Ancient Replanted Woodland
4	762m W	Unknown	Ancient Replanted Woodland
5	837m W	Unknown	Ancient & Semi-Natural Woodland
6	923m W	Unknown	Ancient Replanted Woodland
7	977m NW	Unknown	Ancient & Semi-Natural Woodland
A	1022m N	Howe Park	Ancient & Semi-Natural Woodland
8	1026m SW	Unknown	Ancient & Semi-Natural Woodland
9	1056m S	Unknown	Ancient & Semi-Natural Woodland
10	1083m N	Unknown	Ancient & Semi-Natural Woodland
11	1250m N	Unknown	Ancient & Semi-Natural Woodland
12	1524m NW	Unknown	Ancient Replanted Woodland
-	1785m 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	0

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

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

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	2

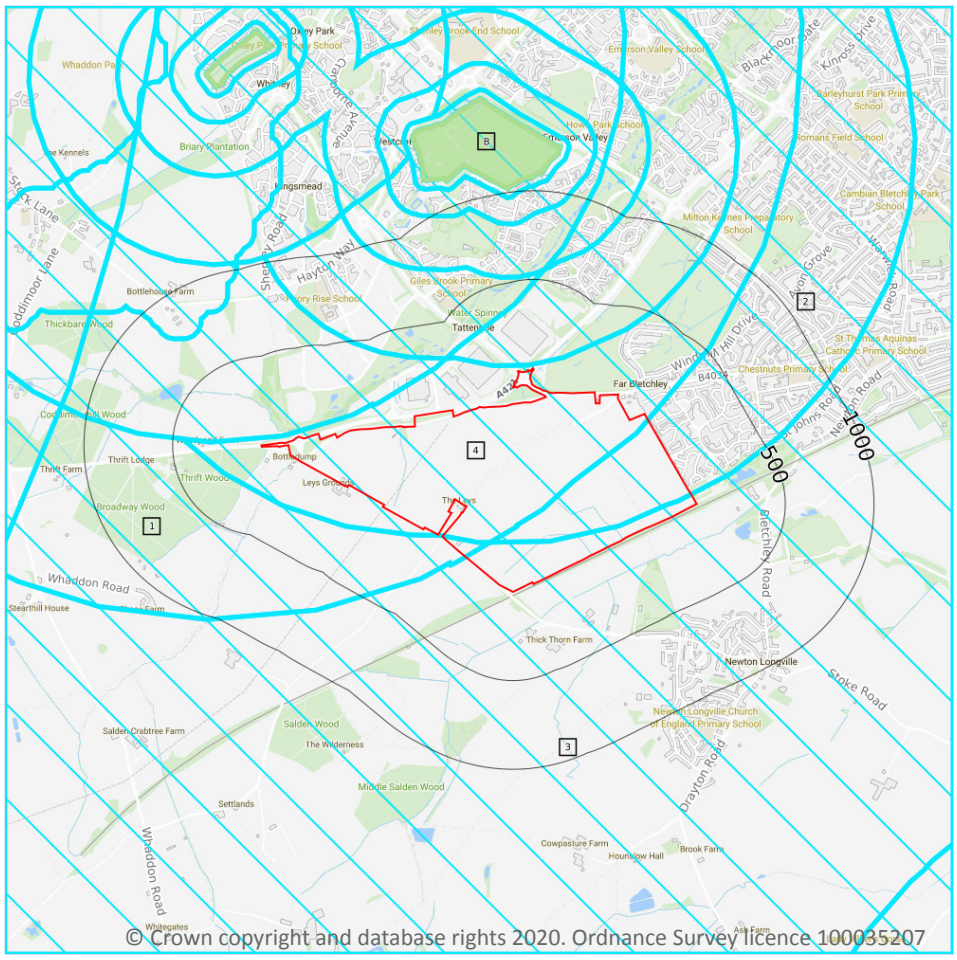
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	**Great Ouse NVZ**	**Surface Water**	**S391**	**Existing**

Location	Name	Type	NVZ ID	Status
On site	**Great Ouse NVZ**	**Surface Water**	**S391**	**Existing**

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	4

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 74**

ID	Location	Type of developments requiring consultation
1	**On site**	**Infrastructure - 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 - Livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t.**

ID	Location	Type of developments requiring consultation
2	**On site**	**Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 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.**
3	**On site**	**Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t.**
4	**On site**	**Infrastructure - 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 > 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.**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	**1**

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 74**

ID:	B
Location:	1022m N
SSSI name:	Howe Park Wood
Unit name:	Howe Park Wood
Broad habitat:	Broadleaved, Mixed And Yew Woodland - Lowland
Condition:	Favourable
Reportable features:	

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	24/09/2010
Populations of nationally scarce butterfly species - Strymonidia pruni, Black Hairstreak	Favourable	24/09/2010

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

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	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 English Heritage, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m	0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m	0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

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

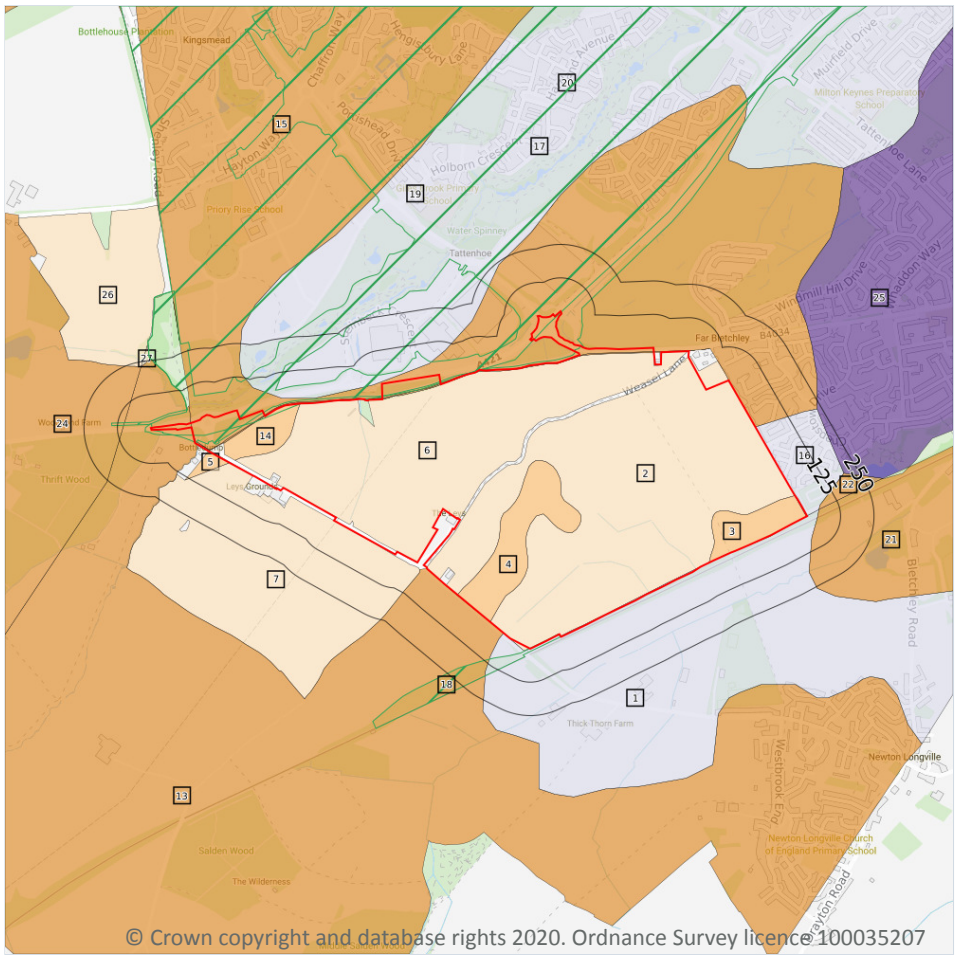
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m	18

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 79**

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

ID	Location	Classification	Description
2	**On site**	**Grade 3b**	**Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.**
3	**On site**	**Grade 3a**	**Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.**
4	**On site**	**Grade 3a**	**Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.**
5	**On site**	**Grade 3a**	**Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.**
6	**On site**	**Grade 3b**	**Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.**
7	**On site**	**Grade 3b**	**Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.**
13	**On site**	**Grade 3**	**Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.**
14	**On site**	**Grade 3a**	**Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.**
15	**On site**	**Grade 3**	**Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.**
16	**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.**
20	8m N	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

ID	Location	Classification	Description
21	39m E	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
22	51m NE	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
24	100m W	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
25	199m NE	Urban	-
26	232m N	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
27	232m N	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.

This data is sourced from Natural England.

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	3

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 79**

ID	Location	Description	Reference	Application date
17	**On site**	**Selective Fell/Thin (Conditional)**	**019/27/07-08**	**08/06/2007**
18	**On site**	**Selective Fell/Thin (Conditional)**	**019/145/00-01**	**29/11/2000**
19	**On site**	**Selective Fell/Thin (Conditional)**	**019/105/16-17**	**29/06/2016**

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	**2**

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

Location	Reference	Scheme	Start Date	End date
21m NW	AG00425199	Entry Level plus Higher Level Stewardship	01/03/2013	28/02/2023
53m W	AG00425199	Entry Level plus Higher Level Stewardship	01/03/2013	28/02/2023

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

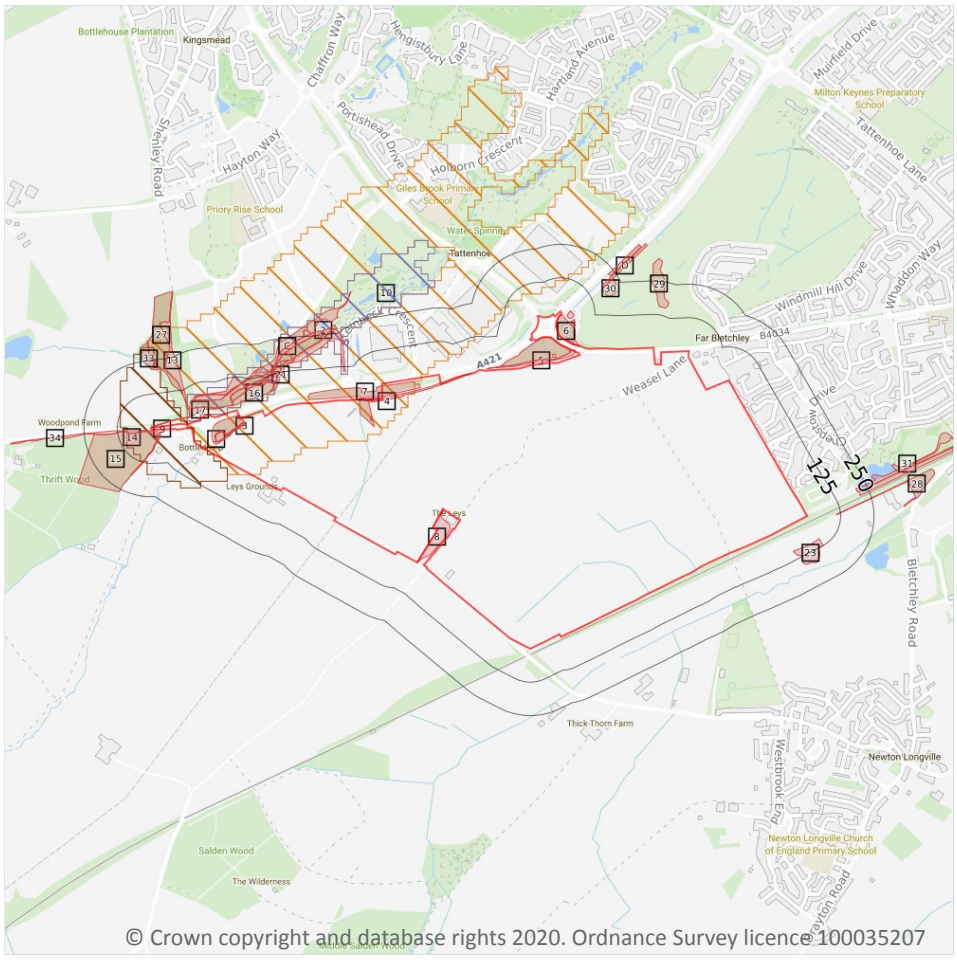
Records within 250m	**1**

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

Location	Reference	Scheme	Start Date	End Date
62m W	674986	Woodland Management Plan	01/03/2019	28/02/2021

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	41

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 83**

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
6	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
7	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
8	**On site**	**Traditional orchard**	**Main habitat: TORCH (INV > 50%)**
11	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
A	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
A	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
12	1m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	2m N	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)
14	4m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
15	12m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
16	21m N	No main habitat but additional habitats present	Additional: LMEAD (FEP 50%)
17	22m N	No main habitat but additional habitats present	Additional: LMEAD (FEP 50%)
18	23m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	24m N	No main habitat but additional habitats present	Additional: LMEAD (FEP 50%)
19	38m N	No main habitat but additional habitats present	Additional: LMEAD (FEP 50%)
20	42m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	55m N	No main habitat but additional habitats present	Additional: LMEAD (FEP 50%)
21	67m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: LMEAD (FEP 50%)
C	70m N	No main habitat but additional habitats present	Additional: LMEAD (FEP 50%)
22	90m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: LMEAD (FEP 50%)
23	92m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
24	96m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: LMEAD (FEP 50%)

ID	Location	Main Habitat	Other habitats
25	104m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: LMEAD (FEP 50%)
26	107m N	No main habitat but additional habitats present	Additional: LMEAD (FEP 50%)
27	109m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
28	110m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	131m NW	No main habitat but additional habitats present	Additional: LMEAD (FEP 50%)
29	154m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
30	176m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
D	186m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
31	209m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
32	212m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
33	212m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
34	214m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
D	227m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
35	240m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
36	250m N	No main habitat but additional habitats present	Additional: LMEAD (FEP 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m **3**

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

Features are displayed on the Habitat designations map on **page 83**

ID	Location	Type	Habitat
2	**On site**	**Restorable Habitat**	**Not specified**
9	**On site**	**Network Enhancement Zone 2**	**Not specified**
10	**On site**	**Network Enhancement Zone 1**	**Not specified**

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.

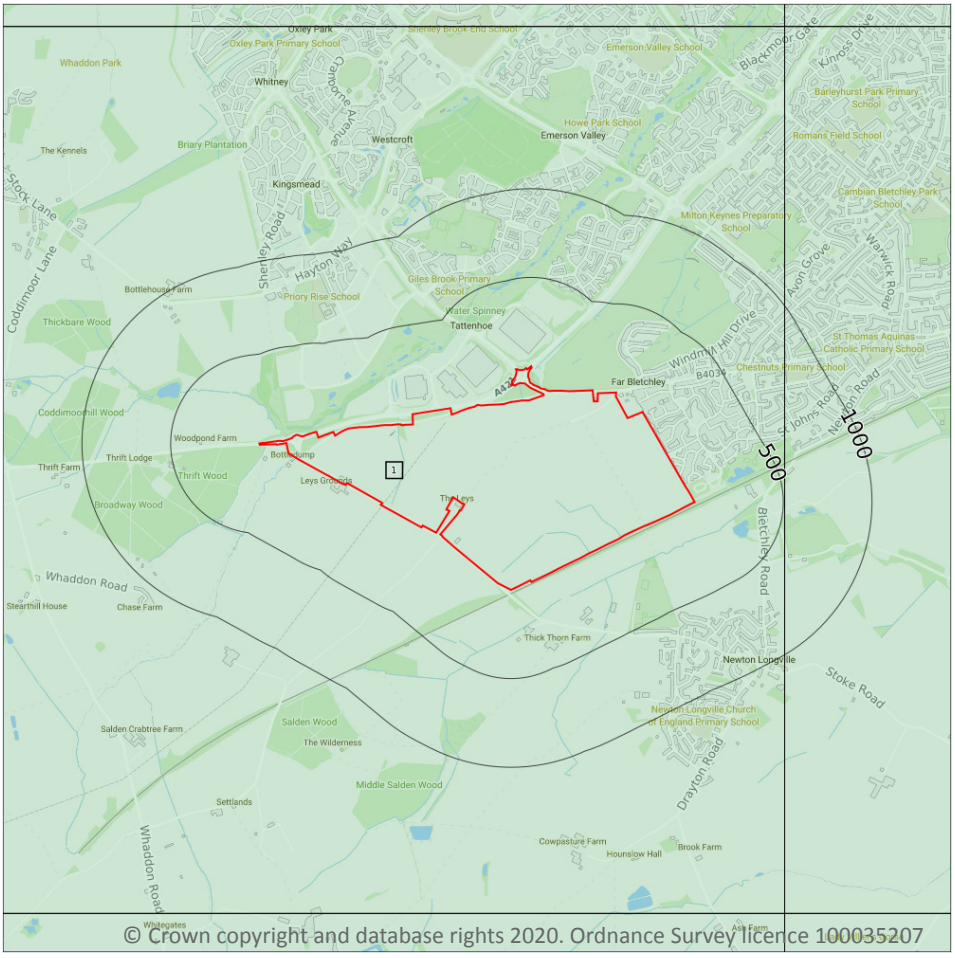
13.4 Limestone Pavement Orders

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



14.1 10k Availability

Records within 500m	1

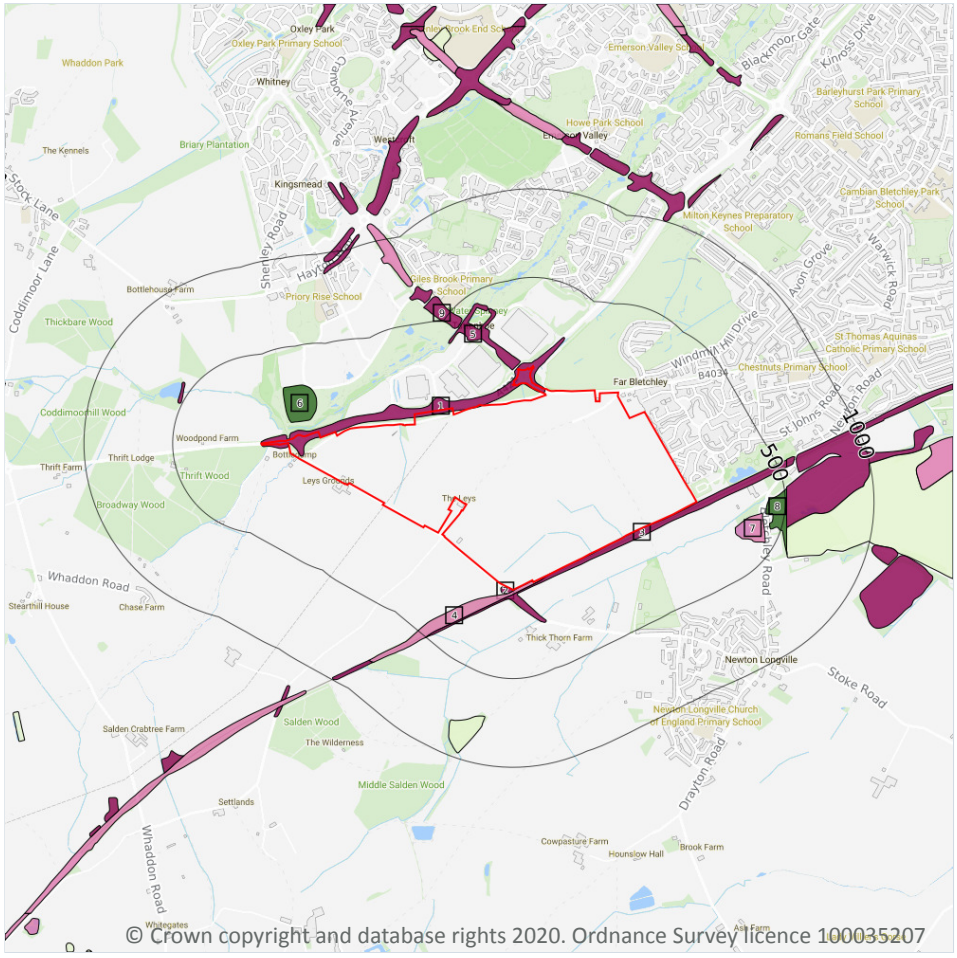
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

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

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**SP83SW**

This data is sourced from the British Geological Survey.

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



14.2 Artificial and made ground (10k)

Records within 500m	9

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.

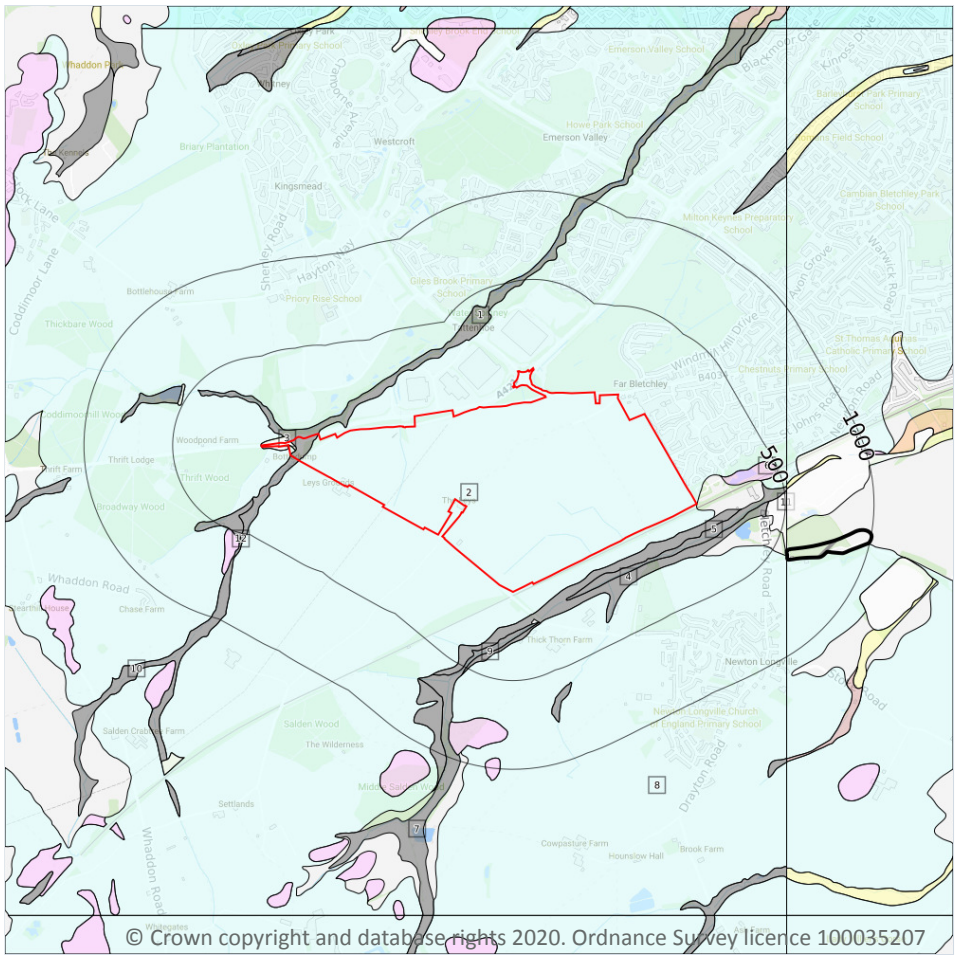
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 88**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	On site	WGR-VOID	Worked Ground (Undivided)	Void

ID	Location	LEX Code	Description	Rock description
5	19m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	74m N	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
7	263m SE	WGR-VOID	Worked Ground (Undivided)	Void
8	395m E	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
9	413m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m **12**

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	ALV-CZ	Alluvium - Silty Clay	Clay, Silty
2	On site	TILMP-DMTN	Till, Mid Pleistocene - Diamicton	Diamicton
3	On site	SUPD-SED	Superficial Deposits - Sediment	Sediment

ID	Location	LEX Code	Description	Rock description
4	83m SE	HEAD-CZ	Head - Silty Clay	Clay, Silty
5	126m SE	ALV-CZ	Alluvium - Silty Clay	Clay, Silty
6	195m NE	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel
7	209m SE	ALV-CZ	Alluvium - Silty Clay	Clay, Silty
8	211m S	TILMP-DMTN	Till, Mid Pleistocene - Diamicton	Diamicton
9	218m S	HEAD-CZ	Head - Silty Clay	Clay, Silty
10	295m S	HEAD-CZ	Head - Silty Clay	Clay, Silty
11	395m E	SUPNM-UKNOWN	Superficial Theme Not Mapped [for Digital Map Use Only] - Unknown/unclassified Entry	Unknown/unclassified Entry
12	497m S	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

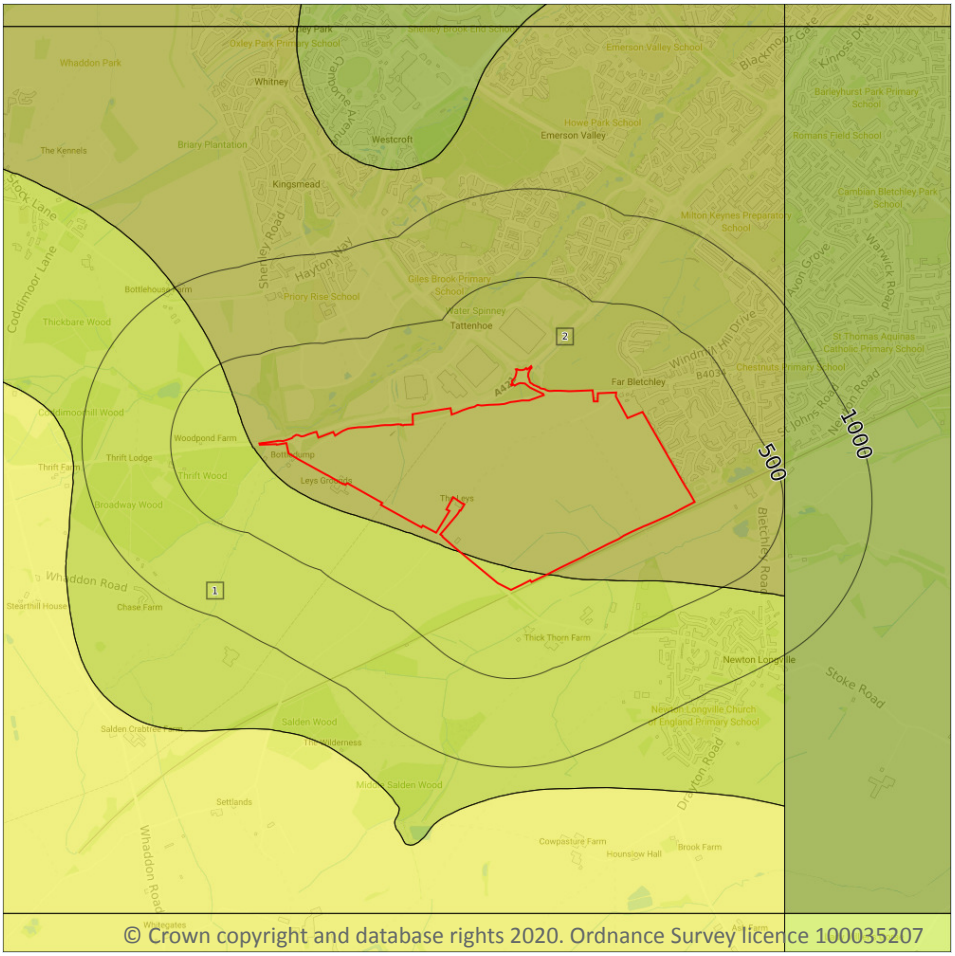
14.4 Landslip (10k)

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	2

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	WEY-MDST	Weymouth Member - Mudstone	Oxfordian Age
2	On site	SBY-MDST	Stewartby Member - Mudstone	Callovian Age

This data is sourced from the British Geological Survey.

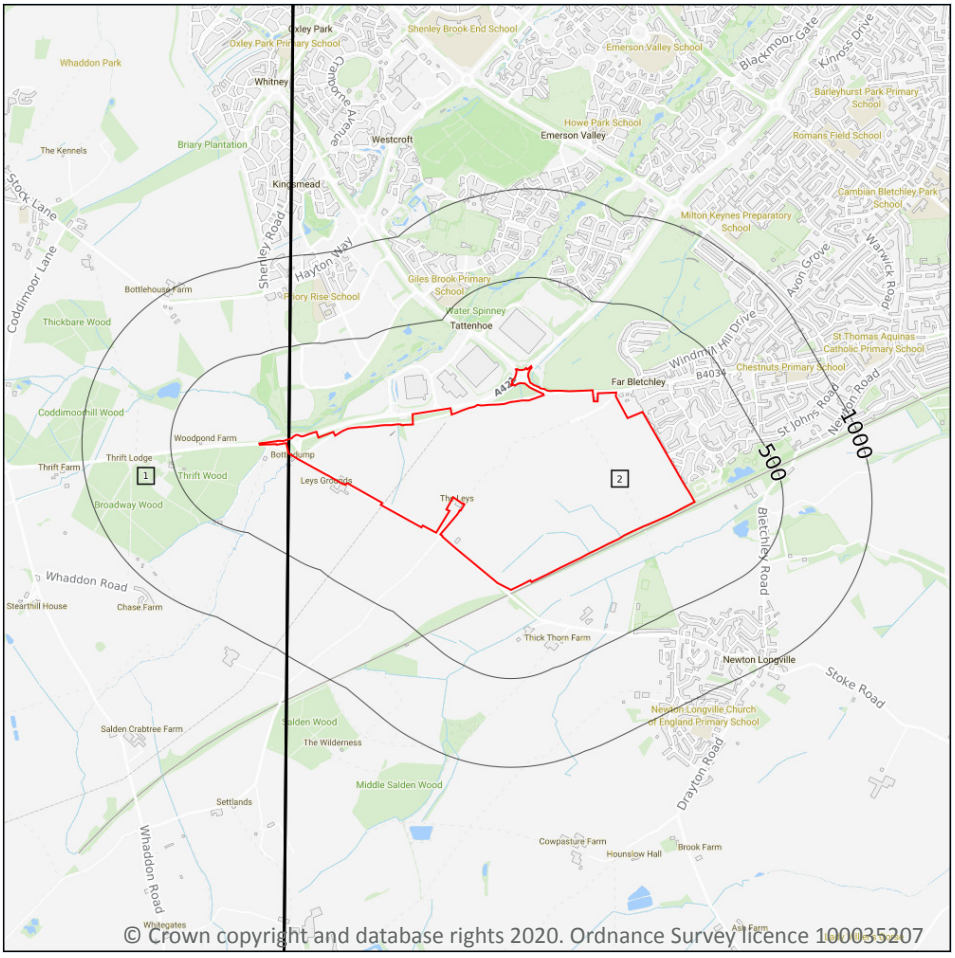
14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

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.

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	2

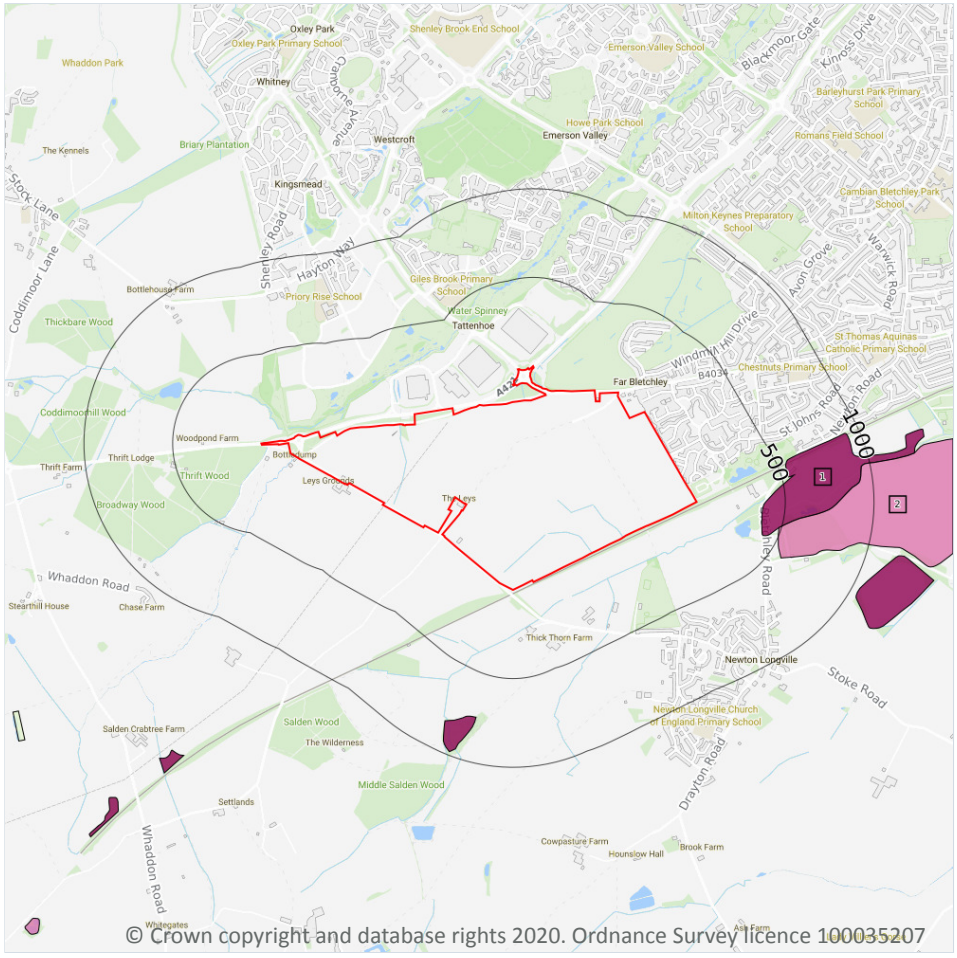
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 94**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW219_buckingham_v4
2	On site	Full	Full	Full	Full	EW220_leighton_buzzard_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	2

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 95**

ID	Location	LEX Code	Description	Rock description
1	374m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	487m E	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.

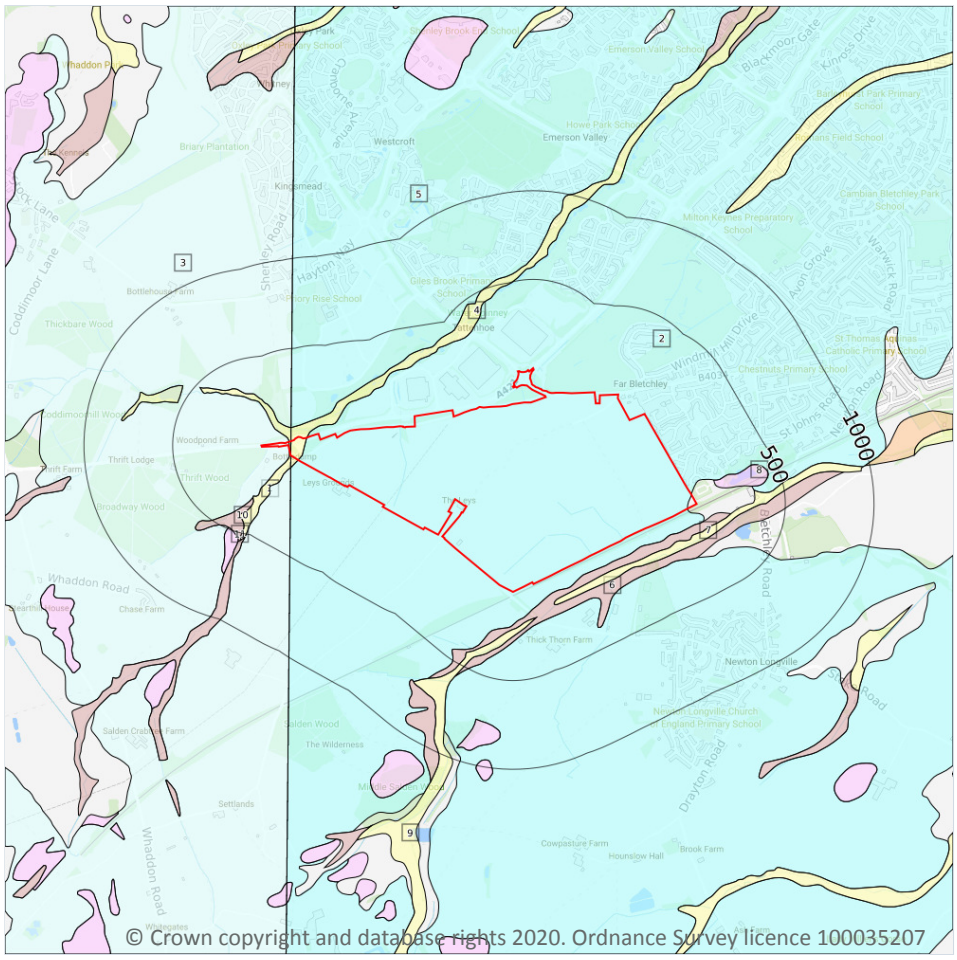
15.3 Artificial ground permeability (50k)

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 **11**

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 97**

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	On site	ODT-DMTN	OADBY MEMBER	DIAMICTON
3	On site	TILMP-DMTN	TILL, MID PLEISTOCENE	DIAMICTON

ID	Location	LEX Code	Description	Rock description
4	**On site**	**ALV-XCZSV**	**ALLUVIUM**	**CLAY, SILT, SAND AND GRAVEL**
5	62m N	ODT-DMTN	OADBY MEMBER	DIAMICTON
6	78m SE	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
7	127m SE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
8	145m NE	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
9	183m SE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
10	289m S	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
11	491m S	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	**3**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**Moderate**	**Low**
On site	**Intergranular**	**High**	**Very Low**
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.

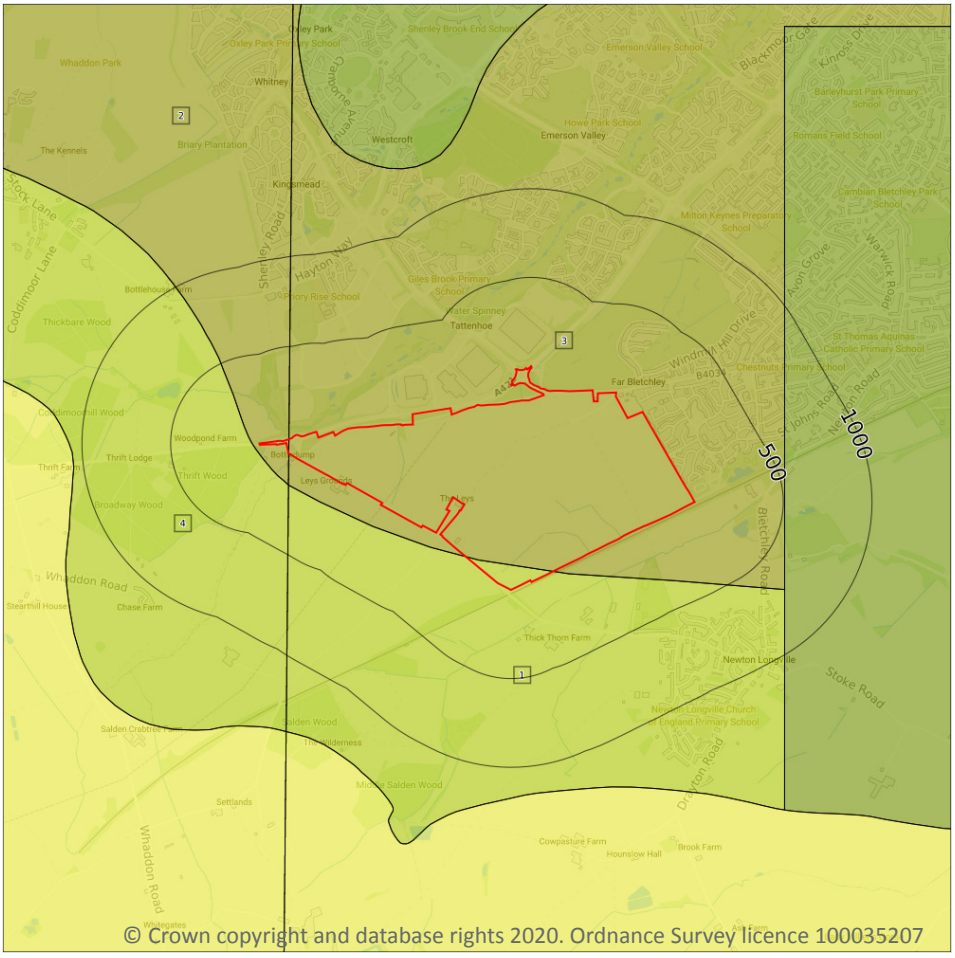
15.7 Landslip permeability (50k)

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 **4**

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**	**WEY-MDST**	**WEYMOUTH MEMBER - MUDSTONE**	**OXFORDIAN**
2	**On site**	**SBY-MDST**	**STEWARTBY MEMBER - MUDSTONE**	**CALLOVIAN**
3	**On site**	**SBY-MDST**	**STEWARTBY MEMBER - MUDSTONE**	**CALLOVIAN**
4	32m SW	WEY-MDST	WEYMOUTH MEMBER - MUDSTONE	OXFORDIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	**3**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Low**	**Very Low**
On site	**Fracture**	**Low**	**Very Low**
32m W	Fracture	Low	Very Low

This data is sourced from the British Geological Survey.

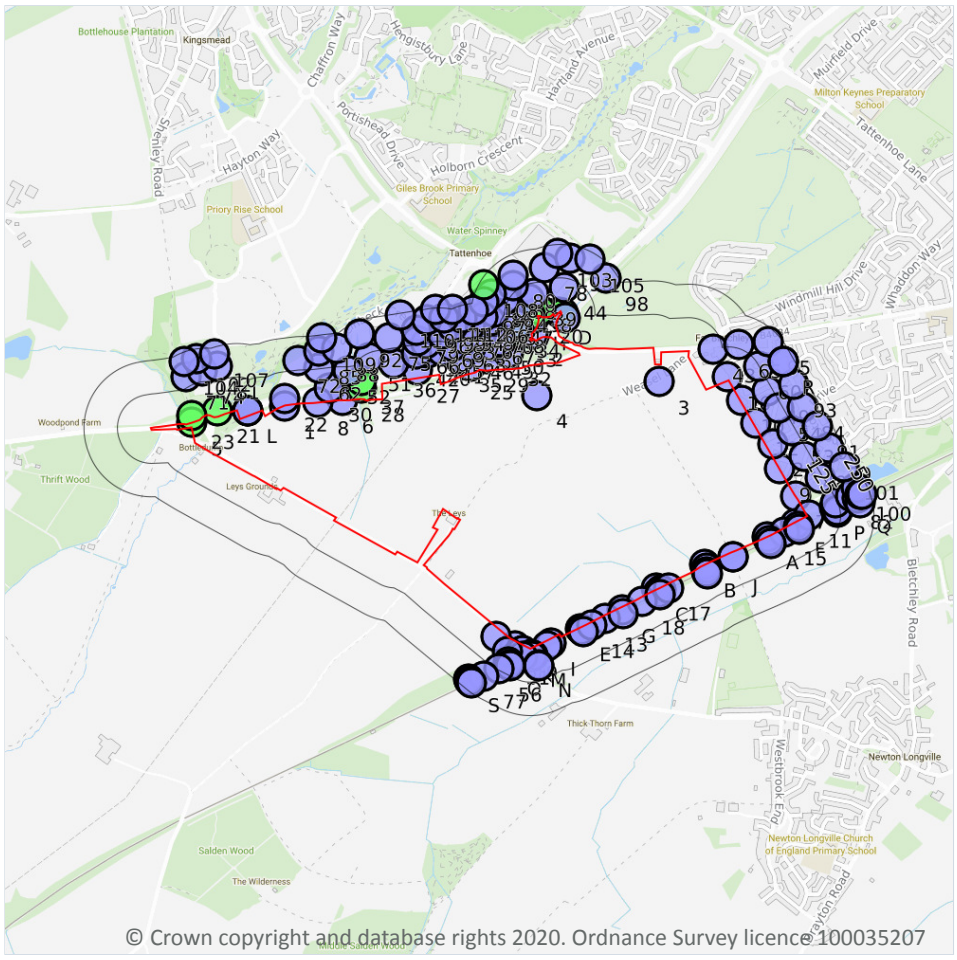
15.10 Bedrock faults and other linear features (50k)

Records within 500m	**0**

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.

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	169

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 102**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	482540 232730	MILTON KEYNES 25	9.59	N	352356
2	On site	483467 233002	H8 LINK TO B4034 E236	6.0	N	17873419
3	On site	483938 232823	STANDING WAY H8 A421-V1 TP MK1933	3.5	N	17873460

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	**On site**	**483483 232771**	**STANDING WAY H8 A421-V1 TP MK1932**	**3.7**	**N**	**17873458**
A	**On site**	**484342 232243**	**East West Rail Phase 2 DP2B10U**	**5.0**	**N**	**20757086**
B	**On site**	**484109 232138**	**East West Rail Phase 2 DP2B11U**	**6.0**	**N**	**20757124**
C	**On site**	**483928 232050**	**East West Rail Phase 2 DP2B12U**	**6.0**	**N**	**20757127**
5	1m N	482193 232670	H8 A421-V1 MK1922	20.0	N	17873435
6	1m N	482757 232754	A421 BOTTLEDUMP CORNER H8 X68	5.0	N	17873421
7	2m NE	484451 232394	RAILWAY FARM GRID SQUARE T34	5.0	N	17579729
8	2m N	482665 232746	A421 BOTTLEDUMP CORNER H8 X69	7.0	N	17873424
9	3m NE	484391 232498	RAILWAY FARM GRID SQUARE T28	5.0	N	17579719
D	3m NW	483563 233083	SUBWAY H8/1A MK1721	18.0	N	17873469
E	4m SE	483645 231899	East West Rail Phase 2 DP2B13U	6.0	N	20757130
F	5m SE	484449 232292	East West Rail Phase 2 DP2B09U	6.0	N	20757083
10	6m NE	484248 232754	RAILWAY FARM GRID SQUARE T12	5.0	N	17579702
D	7m E	483581 233079	SUBWAY H8/1A MK1722	18.0	N	17873471
11	8m NE	484500 232323	RAILWAY FARM GRID SQUARE T39	7.0	N	17579736
C	8m SE	483947 232044	East West Rail Phase 2 TP53	1.3	N	20756961
E	9m SE	483649 231895	East West Rail Phase 2 DP2B13C	6.0	N	20757128
G	10m SE	483802 231970	East West Rail Phase 2 WS2B189_C	6.0	N	20757912
12	10m NE	484302 232668	RAILWAY FARM GRID SQUARE T15	5.0	N	17579705
13	10m SE	483737 231938	East West Rail Phase 2 TP B9	2.5	N	20757054
14	12m SE	483687 231911	East West Rail Phase 2 TP B103	1.2	N	20757352
B	13m SE	484115 232126	East West Rail Phase 2 DP2B11C	8.7	N	20757087
15	13m SE	484407 232260	East West Rail Phase 2 TP B7	1.2	N	20756927
16	13m N	484196 232840	RAILWAY FARM GRID SQUARE T6	5.0	N	17579695
C	14m SE	483934 232032	East West Rail Phase 2 DP2B12C	10.0	N	20757125
17	14m SE	483974 232051	East West Rail Phase 2 TP B8	2.5	N	20757001
18	15m SE	483876 232001	East West Rail Phase 2 TP B104	1.2	N	20757353
A	16m SE	484351 232228	East West Rail Phase 2 DP2B10C	8.0	N	20757084

ID	Location	Grid reference	Name	Length	Confidential	Web link
H	16m SW	483470 233061	CITY ROAD H8 LINK TO B4034 TP E234	3.0	N	17873542
I	17m SE	483536 231844	East West Rail Phase 2 TP B10	2.4	N	20757350
I	17m SE	483520 231835	East West Rail Phase 2 TP52	1.3	N	20756960
E	18m SE	483654 231888	East West Rail Phase 2 DP2B13D	6.0	N	20757129
J	18m S	484217 232168	East West Rail Phase 2 WS2B192_C	6.4	N	20757914
19	18m SW	483400 231833	East West Rail Phase 2 WS2BNAOB_2D	6.45	N	20757792
J	18m SE	484214 232166	East West Rail Phase 2 TP54	1.5	N	20756962
K	19m SW	483428 231818	East West Rail Phase 2 WS2B204_C	6.0	N	20757960
F	19m SE	484459 232281	East West Rail Phase 2 DP2B09C	10.0	N	20757081
K	20m SW	483428 231817	East West Rail Phase 2 WS2BNAOB_1D	6.45	N	20757790
D	20m SE	483587 233060	CITY ROAD H.8 - LINK TO B4034 E233	4.8	N	17931871
L	20m N	482400 232715	H8 A421-V1 MK1924A	15.5	N	17873439
L	20m N	482400 232715	H8 A421-V1 MK1924	9.5	N	17873438
L	20m N	482400 232715	H8 A421-V1 MK1925	10.0	N	17873440
20	21m N	483495 233089	TATTENHOE V1 (H7 TO H8) MK1201	15.0	N	17898621
M	21m S	483461 231803	East West Rail Phase 2 CP2BOB9D	30.45	N	20757509
21	23m N	482288 232715	H8 A421-V1 MK1923	15.0	N	17873437
C	23m SE	483943 232026	East West Rail Phase 2 DP2B12D	6.0	N	20757126
G	23m SE	483803 231956	East West Rail Phase 2 WS2B190_U	4.4	N	20757913
22	24m N	482540 232758	MILTON KEYNES MK25	9.65	N	352338
23	25m N	482192 232695	H8 A421-V1 MK1921	20.0	N	17873434
M	27m S	483467 231799	East West Rail Phase 2 DP2BOB9D	7.0	N	20757718
24	27m NE	484366 232590	RAILWAY FARM GRID SQUARE T22	7.0	N	17579712
25	27m N	483235 232880	STANDING WAY H8 A421-V1 TP MK1934	3.8	N	17873461
M	27m S	483460 231797	East West Rail Phase 2 CP2BOB9U	30.45	N	20757510
B	27m SE	484117 232111	East West Rail Phase 2 DP2B11D	6.0	N	20757123
H	27m W	483458 233072	TATTENHOE V1 H7 TO H8 MK1202	18.5	N	17873546
A	28m SE	484357 232218	East West Rail Phase 2 DP2B10D	5.0	N	20757085

ID	Location	Grid reference	Name	Length	Confidential	Web link
26	29m SW	483329 231869	East West Rail Phase 2 TP2BNL_2D	2.0	N	20757642
M	29m S	483465 231796	East West Rail Phase 2 WS2BOB9-D	6.0	N	20757831
27	30m N	483035 232865	H8 A421-V1 MK1929	10.0	N	17873452
F	30m SE	484463 232271	East West Rail Phase 2 DP2B09D	5.0	N	20757082
B	36m SE	484120 232103	East West Rail Phase 2 WS2B11D	6.0	N	20758164
28	40m N	482828 232797	H8 A421-V1 MK1928	20.0	N	17873449
K	40m SW	483428 231794	East West Rail Phase 2 TP B11	1.2	N	20757354
29	43m N	483293 232907	H8 LINK TO B4034 E238	4.1	N	17873420
30	48m N	482706 232797	H8 A421-V1 MK1926	10.0	N	17873442
31	48m SW	483371 231814	East West Rail Phase 2 TP2BNL_3D	2.0	N	20757643
32	61m N	483377 232930	H8 A421-V1 MK1930	10.0	N	17873455
33	63m W	483398 233002	TATTENHOE PARK SITE A MK3570	15.0	N	18515753
34	64m NW	483409 233036	TATTENHOE PARK SITE A MK3571	3.0	N	18515754
35	65m N	483193 232908	TATTENHOE PARK SITE B MK3580	3.0	N	18515882
36	67m N	482946 232889	TATTENHOE PARK GRID SQUARE MK1704	5.6	N	17873629
N	67m SE	483490 231765	East West Rail Phase 2 WS2BNAOB_1U	6.45	N	20757791
37	69m N	482827 232826	H8 A421-V1 MK1927	20.0	N	17873444
N	71m SE	483489 231760	East West Rail Phase 2 WS2BNAOB_2U	7.0	N	20757793
38	72m NW	483454 233132	MILTON KEYNES CITY ROAD V1 (H7-H8) TP MK1227	3.7	N	17898634
O	83m SW	483374 231773	East West Rail Phase 2 DP2B14U	6.0	N	20757132
39	88m N	483471 233154	TATTENHOE SOUTH X55	7.0	N	17898620
40	89m N	483075 232931	TATTENHOE PARK SITE B MK3577	3.0	N	18515875
O	89m SW	483379 231764	East West Rail Phase 2 DP2B14C	6.0	N	20757131
41	89m N	483126 232937	TATTENHOE PARK GRID SQUARE MK1709	7.0	N	17873669
42	90m N	483032 232926	TATTENHOE PARK GRID SQUARE MK1708	5.1	N	17873432
O	90m SW	483382 231761	East West Rail Phase 2 WS2B14D	4.45	N	20758245
43	91m E	484141 232943	RAILWAY FARM GRID SQUARE T2	7.0	N	17579691
44	91m N	483585 233175	TATTENHOE SOUTH X52	5.0	N	17931952

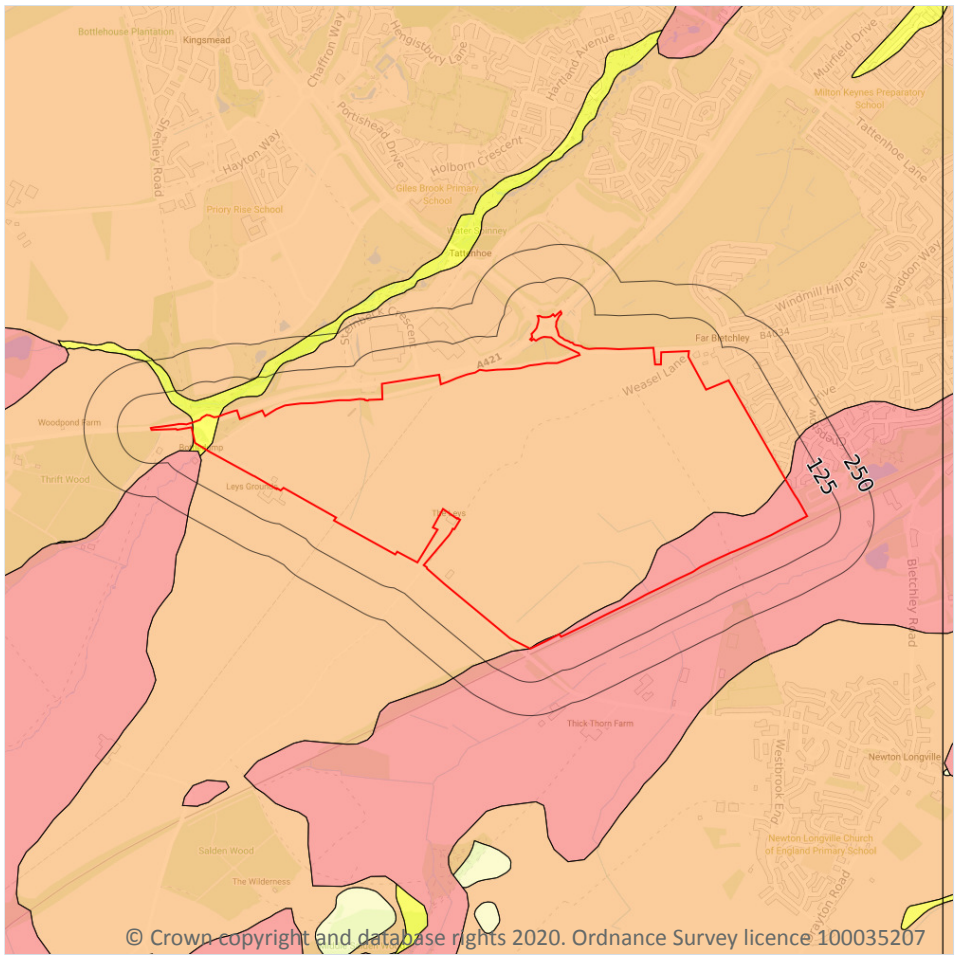
ID	Location	Grid reference	Name	Length	Confidential	Web link
45	91m N	483312 232957	TATTENHOE PARK SITE A MK3568	3.0	N	18515744
46	93m N	483236 232954	TATTENHOE PARK GRID SQUARE MK1713	5.0	N	17873673
47	102m W	483384 233081	TATTENHOE PARK GRID SQUARE MK1716	5.1	N	17873676
48	102m NE	484480 232543	RAILWAY FARM GRID SQUARE T29	7.0	N	17579720
49	105m NE	484342 232788	RAILWAY FARM GRID SQUARE T13	5.0	N	17579703
50	105m N	483349 232973	TATTENHOE PARK SITE A MK3569	3.0	N	18515752
P	108m E	484595 232353	East West Rail Phase 2 DP2B08C	10.0	N	20757078
51	108m NW	482854 232911	TATTENHOE PARK GRID SQUARE MK1699	5.0	N	17873613
52	110m N	482775 232863	TATTENHOE PARK GRID SQUARE MK1698	5.0	N	17873431
53	111m NE	484435 232639	RAILWAY FARM GRID SQUARE T23	5.0	N	17579713
54	111m NE	484387 232723	RAILWAY FARM GRID SQUARE T16	7.0	N	17579706
P	114m E	484598 232362	East West Rail Phase 2 DP2B08U	10.0	N	20757080
55	114m NE	484541 232462	RAILWAY FARM GRID SQUARE T35	5.0	N	17579731
P	114m E	484606 232334	East West Rail Phase 2 WS2B08D	7.0	N	20758112
P	116m E	484606 232341	East West Rail Phase 2 DP2B08D	10.0	N	20757079
P	117m NE	484597 232371	RAILWAY FARM GRID SQUARE T40	5.0	N	17579739
56	118m SW	483341 231751	East West Rail Phase 2 TP B13	1.2	N	20757397
57	119m N	483167 232956	TATTENHOE PARK SITE B MK3578	3.0	N	18515879
58	123m NW	483351 233053	TATTENHOE PARK SITE A MK3567	3.0	N	18515741
59	124m N	483067 232966	TATTENHOE PARK SITE B MK3575	3.0	N	18515873
60	125m NE	484312 232881	RAILWAY FARM GRID SQUARE T7	5.0	N	17579696
61	128m N	483273 232994	TATTENHOE PARK SITE A MK3566	3.0	N	18515733
62	129m N	482668 232874	TATTENHOE PARK GRID SQUARE MK1692	5.3	N	17873568
63	130m NW	483208 232981	TATTENHOE PARK SITE B MK3579	10.0	N	18515881
64	137m NW	483363 233129	TATTENHOE PARK SITE A MK3565	3.0	N	18515731
65	139m N	484238 232960	RAILWAY FARM GRID SQUARE T3	5.0	N	17579692
66	139m N	483034 232976	TATTENHOE PARK SITE B MK3572	10.0	N	18515869
67	144m N	483316 233010	TATTENHOE PARK GRID SQUARE MK1714	5.2	N	17873674

ID	Location	Grid reference	Name	Length	Confidential	Web link
68	146m NW	483393 233181	TATTENHOE V1 H7 TO H8 TP MK1228	3.6	N	17873548
69	152m N	483128 233000	TATTENHOE PARK SITE B MK3576	10.0	N	18515874
70	160m W	483310 233050	TATTENHOE GRID SQUARE NORTH MK883	7.0	N	17926969
71	161m NW	482172 232840	H8 (A421-V1) BORROW PIT NEWTON LONGVILLE COMMON MK1674A	2.0	N	17724803
72	161m N	482589 232902	TATTENHOE PARK GRID SQUARE MK1691A	5.0	N	17873567
73	163m NW	483321 233083	TATTENHOE PARK SITE A MK3564	10.0	N	18515727
74	164m N	482230 232861	H8 (A421-V1) BORROW PIT NEWTON LONGVILLE COMMON MK2200A	2.0	N	17724809
75	167m N	482928 232987	TATTENHOE PARK GRID SQUARE MK1700	7.1	N	17873614
76	169m N	483233 233032	TATTENHOE PARK SITE A MK3562	3.0	N	18515724
77	171m SW	483284 231722	East West Rail Phase 2 TP51	1.15	N	20756959
78	174m N	483512 233249	TATTENHOE SOUTH X51	5.0	N	17931950
79	177m N	483032 233014	TATTENHOE PARK GRID SQUARE MK1705	5.1	N	17873630
80	179m NW	483394 233221	TATTENHOE SOUTH X54	5.0	N	17898619
81	180m N	482286 232881	H8 (A421-V1) BORROW PIT NEWTON LONGVILLE COMMON MK1675A	2.0	N	17724804
82	181m NE	484656 232396	East West Rail Phase 2 WS2B194_D	4.5	N	20757915
83	187m N	483168 233028	TATTENHOE PARK GRID SQUARE MK1710	5.0	N	17873670
84	188m NE	484473 232728	RAILWAY FARM GRID SQUARE T17	5.0	N	17579707
85	190m N	482668 232936	TATTENHOE PARK GRID SQUARE MK1692A	5.0	N	17873569
86	192m NW	483312 233150	TATTENHOE PARK GRID SQUARE MK1715	7.1	N	17873675
87	192m W	483281 233065	TATTENHOE PARK SITE A MK3563	3.0	N	18515726
88	194m N	482734 232947	TATTENHOE PARK GRID SQUARE MK1693	7.1	N	17873570
89	199m NE	484573 232575	RAILWAY FARM GRID SQUARE T30	5.0	N	17579721
Q	201m E	484681 232389	East West Rail Phase 2 WS2B195_C	9.0	N	20757916
90	203m N	483606 233285	TATTENHOE SOUTH X47	5.0	N	17931944
91	203m NE	484531 232657	RAILWAY FARM GRID SQUARE T24	5.0	N	17579714
92	203m NW	482820 233000	TATTENHOE PARK GRID SQUARE MK1694	6.3	N	17873571
Q	204m E	484691 232368	East West Rail Phase 2 WS2B196_U	6.4	N	20757917

ID	Location	Grid reference	Name	Length	Confidential	Web link
93	205m NE	484444 232813	RAILWAY FARM GRID SQUARE T14	5.0	N	17579704
94	206m N	483201 233061	TATTENHOE PARK SITE A MK3560	3.0	N	18515720
95	207m NE	484346 232973	RAILWAY FARM GRID SQUARE T4	5.0	N	17579693
96	209m N	483072 233052	TATTENHOE PARK SITE B MK3573	3.0	N	18515870
97	210m W	483282 233122	TATTENHOE PARK SITE A MK3561	3.2	N	18515722
98	211m NE	483740 233211	CITY ROAD H.8 - LINK TO B4034 E232	6.1	N	17931870
R	211m NE	484402 232898	RAILWAY FARM GRID SQUARE T8	6.0	N	17579697
R	211m NE	484402 232898	RAILWAY FARM GRID SQUARE T8A	5.0	N	17579698
99	213m N	483133 233060	TATTENHOE PARK SITE B MK3574	3.0	N	18515871
100	214m NE	484677 232427	RAILWAY FARM GRID SQUARE T41	5.0	N	17579740
Q	214m NE	484690 232401	East West Rail Phase 2 TP55	1.3	N	20756963
101	214m NE	484632 232505	RAILWAY FARM GRID SQUARE T36	5.0	N	17579732
102	215m N	482210 232909	H8 (A421-V1) BORROW PIT NEWTON LONGVILLE COMMON MK2198A	4.0	N	17724807
S	215m SW	483228 231711	East West Rail Phase 2 DP2B15U	5.0	N	20757135
103	215m N	483560 233300	TATTENHOE AREA 31, MILTON KEYNES TP 4	2.3	N	14419209
104	217m NW	482162 232897	H8 (A421-V1) BORROW PIT NEWTON LONGVILLE COMMON MK2197A	4.0	N	17724806
S	219m SW	483232 231703	East West Rail Phase 2 DP2B15C	5.0	N	20757133
Q	221m E	484698 232402	East West Rail Phase 2 TP55A	1.4	N	20756964
S	222m SW	483236 231695	East West Rail Phase 2 DP2B15D	6.0	N	20757134
105	223m NE	483680 233280	TATTENHOE AREA 31, MILTON KEYNES TP 6	2.3	N	14419214
106	224m N	483246 233089	TATTENHOE PARK GRID SQUARE MK1711	5.0	N	17873671
107	226m N	482276 232926	H8 (A421-V1) BORROW PIT NEWTON LONGVILLE COMMON MK2199A	3.0	N	17724808
108	234m NW	483284 233186	TATTENHOE PARK SITE A MK3559	15.0	N	18515719
109	238m N	482677 232985	TATTENHOE PARK GRID SQUARE MK1687	7.0	N	17873565
110	245m N	482971 233073	TATTENHOE PARK GRID SQUARE MK1701	5.0	N	17873626
111	245m N	483103 233093	TATTENHOE PARK GRID SQUARE MK1706	7.1	N	17873631
112	250m NW	483166 233094	TATTENHOE PARK SITE A MK3556	10.0	N	18515695

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m	4

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).

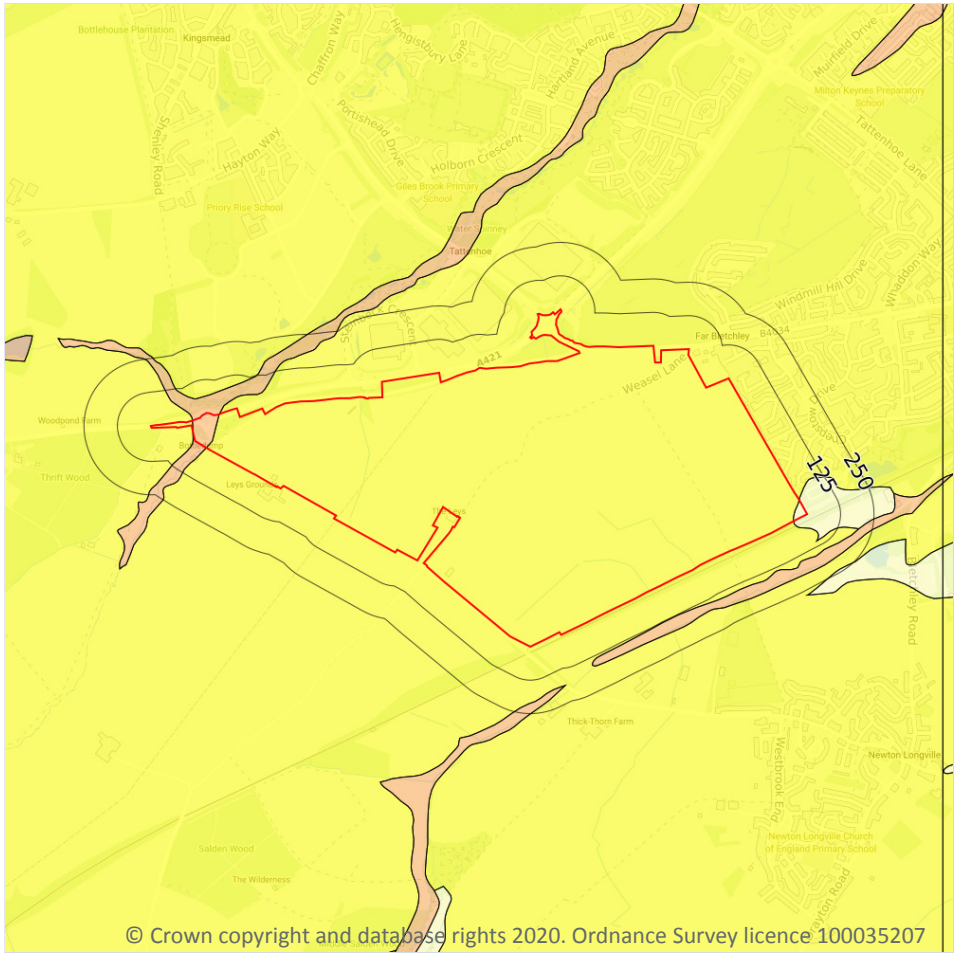
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 110**

Location	Hazard rating	Details
On site	**Very low**	**Ground conditions predominantly low plasticity.**
On site	**Low**	**Ground conditions predominantly medium plasticity.**
On site	**Moderate**	**Ground conditions predominantly high plasticity.**

Location	Hazard rating	Details
21m SW	Moderate	Ground conditions predominantly high plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m	3

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.

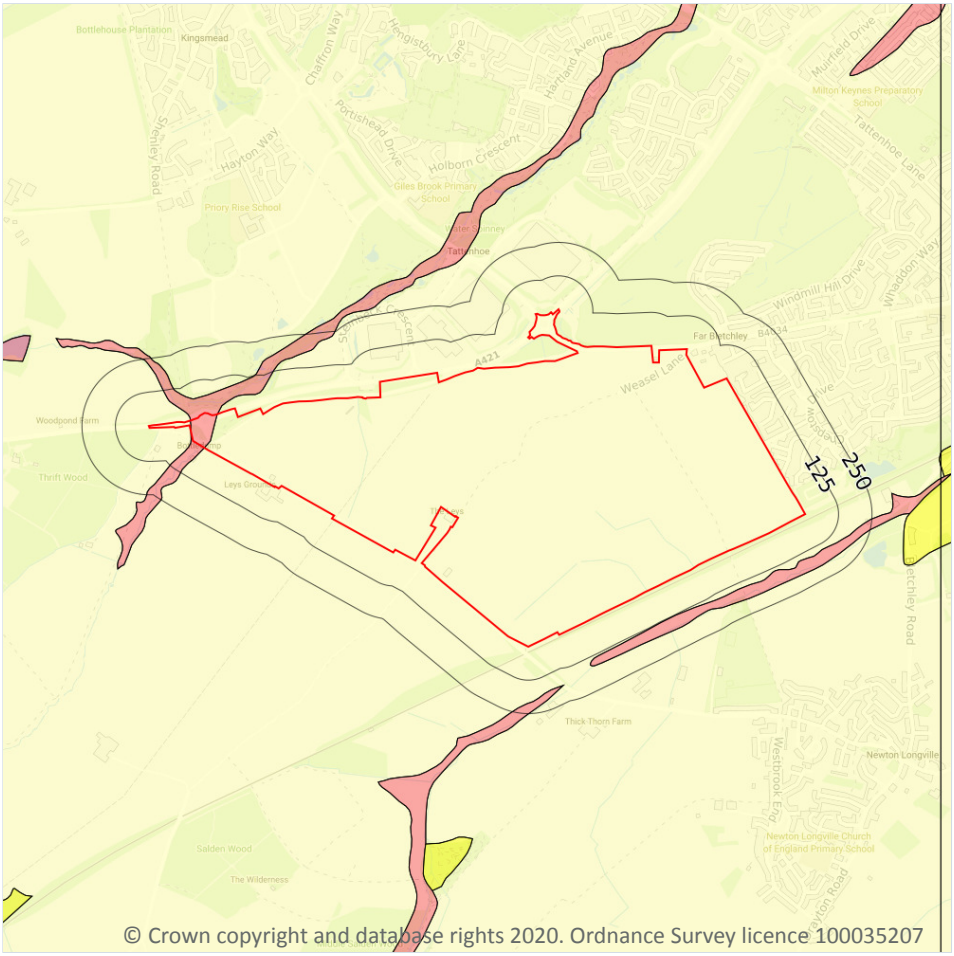
Features are displayed on the Natural ground subsidence - Running sands map on **page 112**

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

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.**
On site	**Low**	**Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m	2

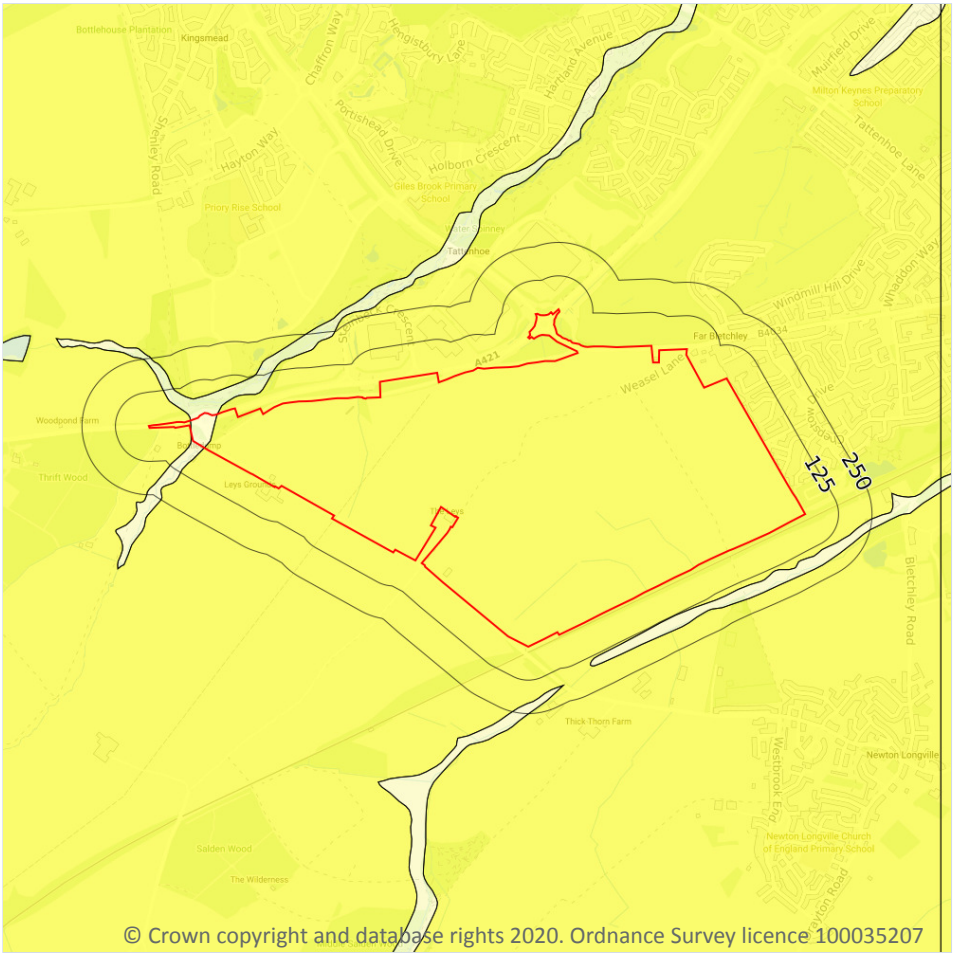
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 114**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**
On site	**Moderate**	**Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m	2

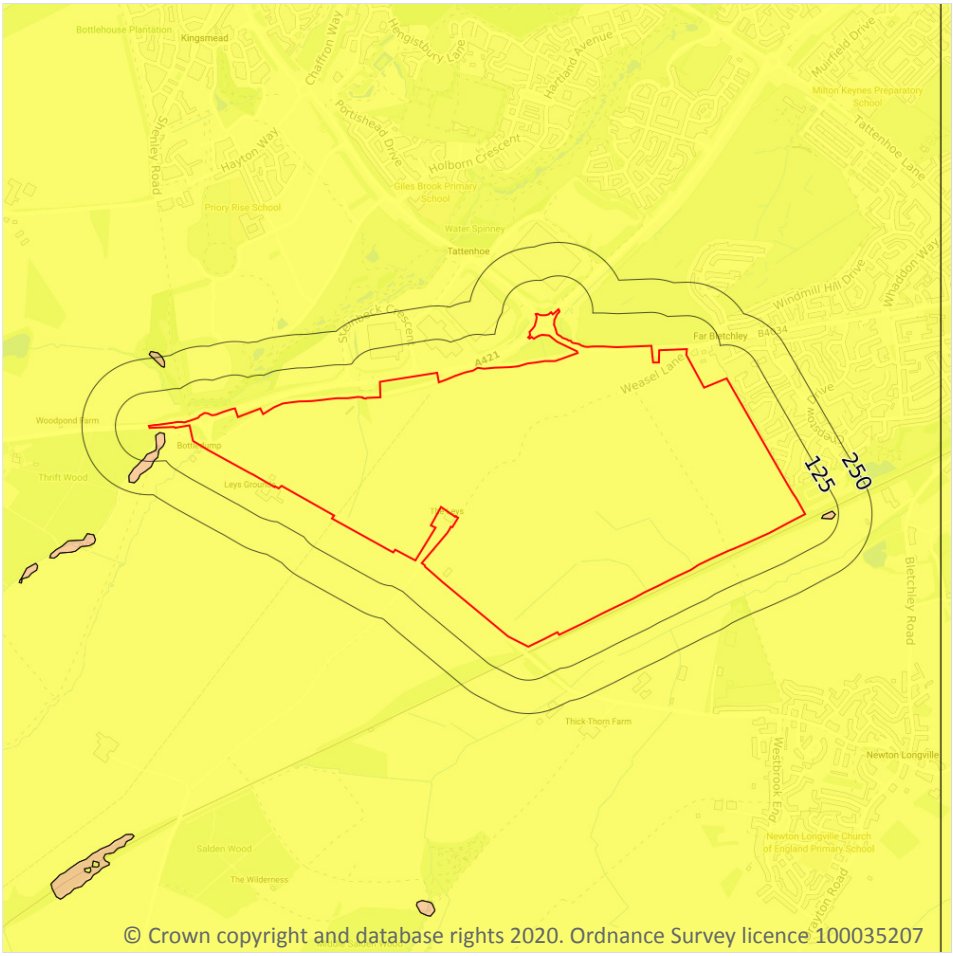
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 116**

Location	Hazard rating	Details
On site	**Negligible**	**Deposits with potential to collapse when loaded and saturated are believed not to be present.**
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m	2

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

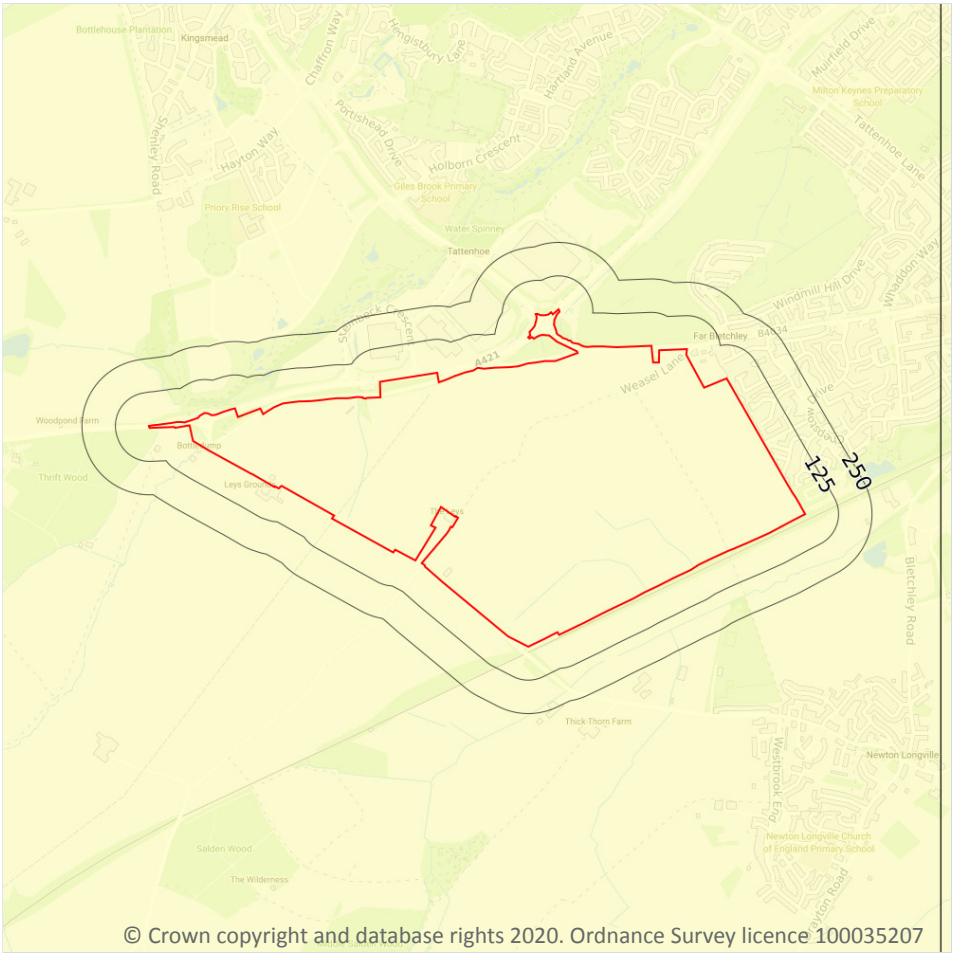
Features are displayed on the Natural ground subsidence - Landslides map on **page 117**

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

Location	Hazard rating	Details
19m S	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m	1

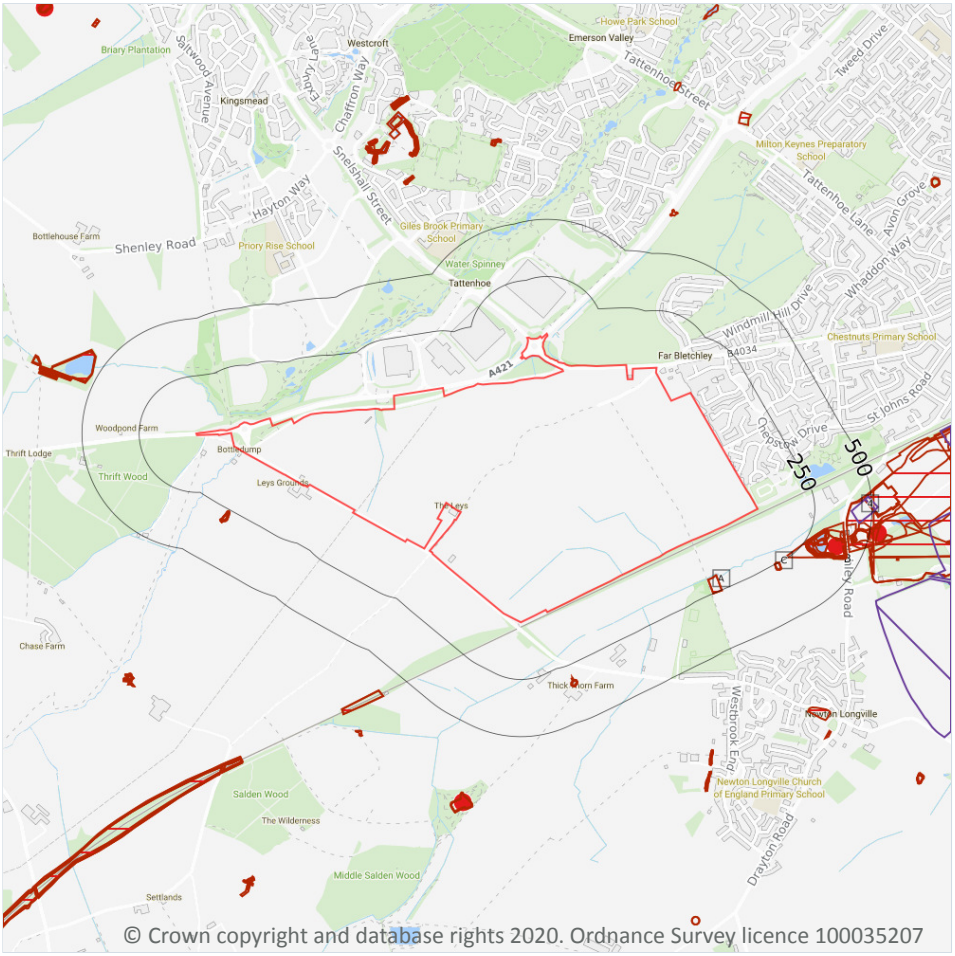
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 119**

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 Peter Brett Associates (PBA).

18.2 BritPits

Records within 500m	1

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 121**

ID	Location	Details	Description
B	380m SE	Name: Newton Longeville Brick Field Address: Newton Longeville, Bletchley, MILTON KEYNES, Buckinghamshire Commodity: Clay & Shale Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	6

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 121**

ID	Location	Land Use	Year of mapping	Mapping scale
A	181m SE	Sewage Works	1988	1:10000
A	181m SE	Sewage Works	1975	1:10000
B	242m SE	Brick Works	1898	1:10560
C	246m SE	Pond	1968	1:10560
C	247m SE	Pond	1988	1:10000
C	247m SE	Pond	1975	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	1

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 121**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
4	411m E	Bletchley Brickworks	Clay	Surface mineral working	Application	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	0

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

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

18.8 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	0

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

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0

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

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

18.11 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

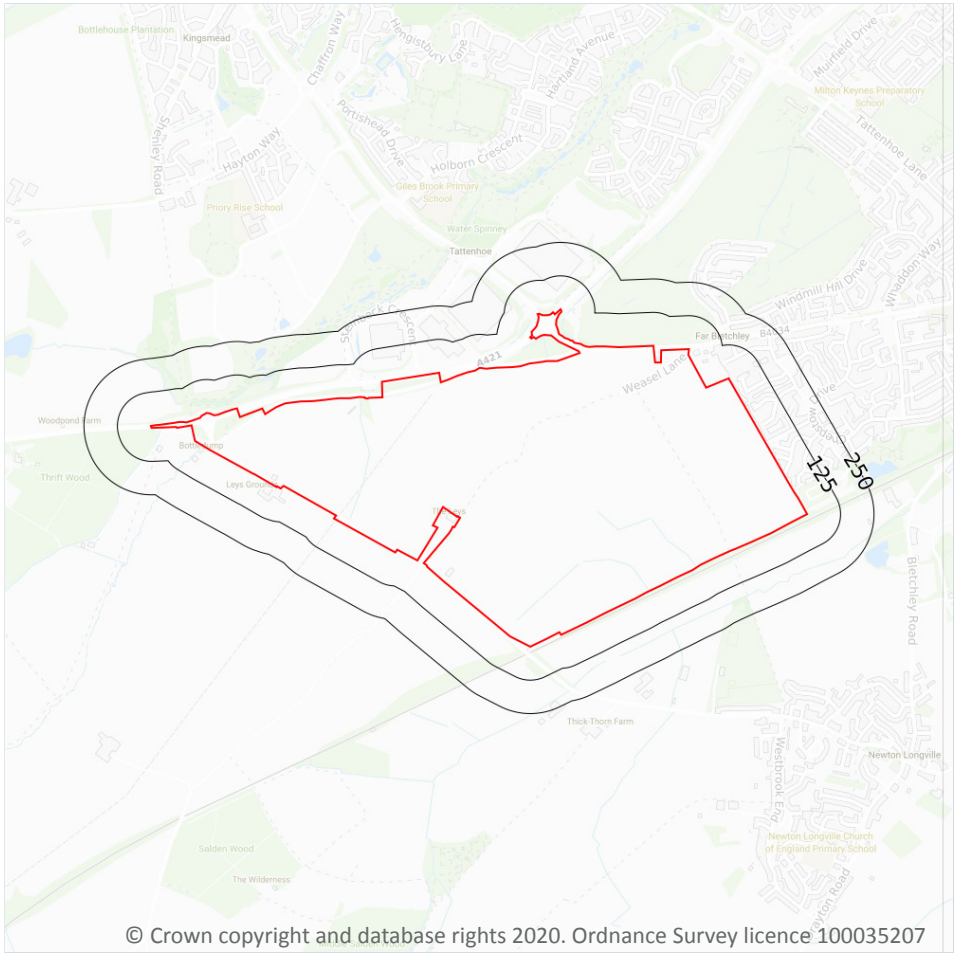
18.13 Clay mining

Records on site	0

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

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

19 Radon



Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

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 126**

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	30

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
8m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
32m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
39m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
39m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
39m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
39m W	15 - 25 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 km^2).

This data is sourced from the British Geological Survey.

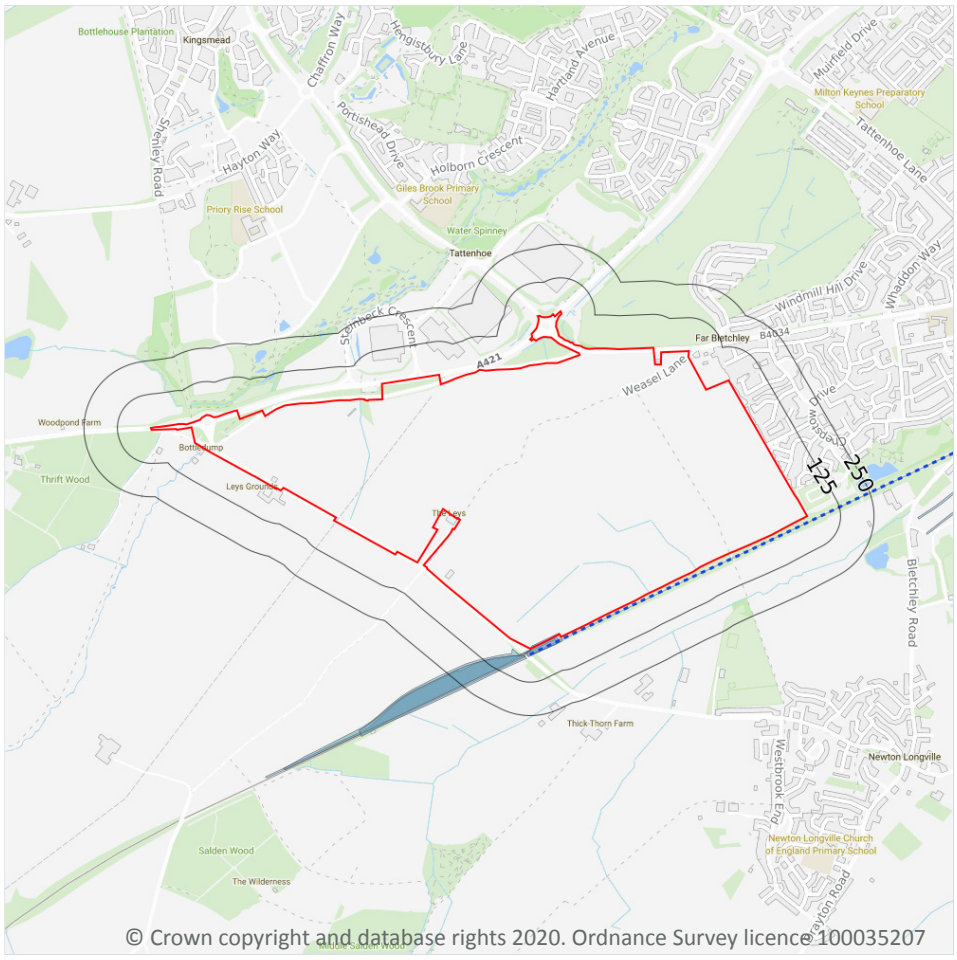
20.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- 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	5

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 130**

Location	Land Use	Year of mapping	Mapping scale
On site	**Railway Sidings**	**1950**	**10560**
On site	**Railway Sidings**	**1968**	**10560**
2m SE	Railway Sidings	1970	2500
30m SW	Railway Sidings	1968	10560
35m SW	Railway Sidings	1950	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m	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	1

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

Features are displayed on the Railway infrastructure and projects map on **page 130**

Location	Name	Type
9m SE	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m	0

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

is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 ltd.

Data providers

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

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