

Recent site history - 2015 aerial photograph



Capture Date: 10/09/2015

Site Area: 141.78ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 5 March 2024

Recent site history - 2006 aerial photograph



Capture Date: 21/09/2006

Site Area: 141.78ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 5 March 2024

Recent site history - 1999 aerial photograph



Capture Date: 27/05/1999

Site Area: 141.78ha



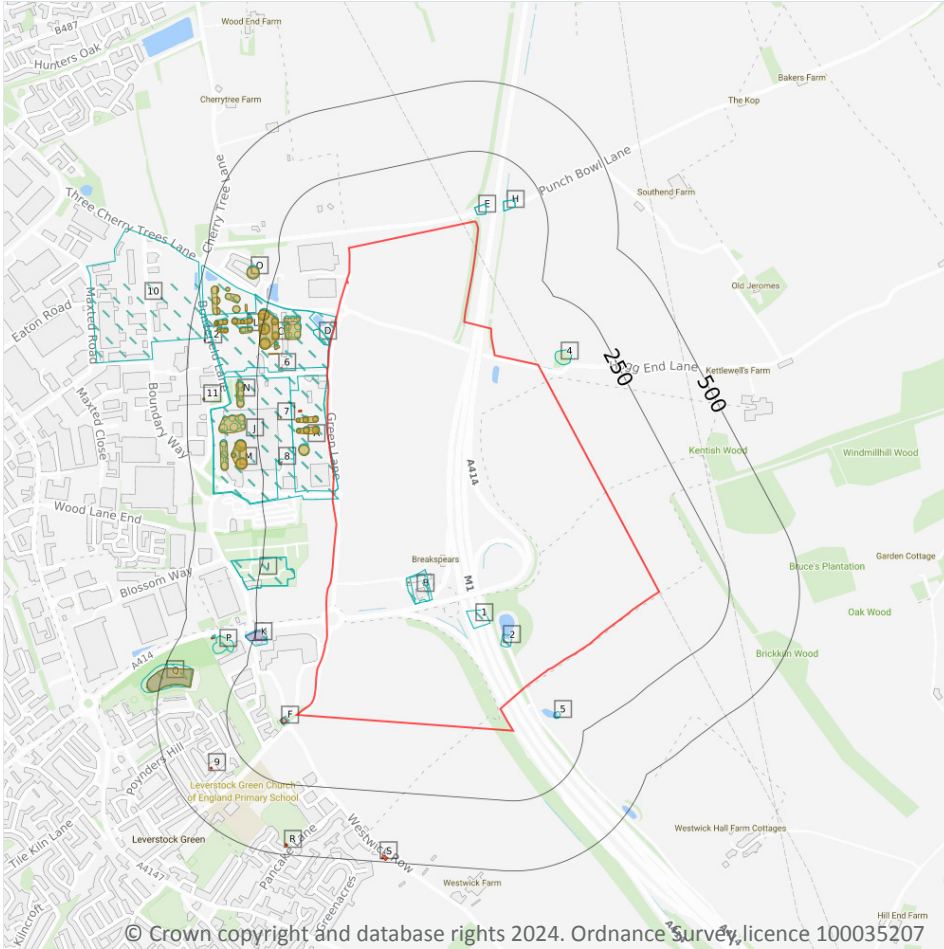
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Date: 5 March 2024

1 Past land use



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

1.1 Historical industrial land uses

Records within 500m **102**

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

Features are displayed on the Past land use map on [page 14](#) >

ID	Location	Land use	Dates present	Group ID
1	On site	Cuttings	1995	2061237



ID	Location	Land use	Dates present	Group ID
2	On site	Cuttings	1995	2061238
3	On site	Oil Storage Depot	1991 - 1995	2117679
A	On site	Unspecified Commercial/Industrial	1979	2058209
B	On site	Unspecified Depot	1979	2071747
B	On site	Unspecified Depot	1991 - 1995	2083513
C	1m NW	Unspecified Commercial/Industrial	1979	2058213
D	5m NW	Unspecified Heap	1979	2087753
D	5m NW	Unspecified Heap	1991 - 1995	2115851
E	25m N	Cuttings	1991 - 1995	2116384
E	25m N	Cuttings	1979	2120977
A	29m NW	Unspecified Tank	1979	2073887
A	29m NW	Unspecified Tank	1991 - 1995	2114061
A	33m NW	Unspecified Tank	1979	2113057
A	33m NW	Unspecified Tank	1991 - 1995	2118949
F	35m SW	Electric Substation	1995	2053587
4	64m NE	Unspecified Pits	1878	2048588
A	64m NW	Unspecified Tank	1979	2064183
A	64m NW	Unspecified Tank	1991 - 1995	2111432
A	68m NW	Unspecified Tank	1991 - 1995	2073518
A	68m NW	Unspecified Tank	1979	2093767
G	73m W	Unspecified Tank	1991 - 1995	2071150
G	73m W	Unspecified Tank	1979	2102761
A	96m NW	Unspecified Tank	1991 - 1995	2105502
A	96m NW	Unspecified Tank	1979	2122466
A	99m NW	Unspecified Tank	1979	2093433
A	99m NW	Unspecified Tank	1991 - 1995	2101114
H	107m N	Cuttings	1979	2077354
H	107m N	Cuttings	1991 - 1995	2089330



ID	Location	Land use	Dates present	Group ID
C	109m NW	Unspecified Tank	1991 - 1995	2094632
C	111m NW	Unspecified Tanks	1979	2054809
C	115m NW	Unspecified Tank	1991 - 1995	2076374
C	125m NW	Unspecified Tank	1991 - 1995	2089458
I	125m SW	Burial Ground	1991 - 1995	2068538
I	125m SW	Burial Ground	1979	2101504
J	125m NW	Oil Storage Depots	1979	2058515
5	139m SE	Unspecified Pit	1878	2040100
C	140m NW	Unspecified Tank	1991 - 1995	2122475
C	144m NW	Unspecified Tank	1991 - 1995	2114292
C	149m NW	Unspecified Tank	1991 - 1995	2091247
C	165m NW	Unspecified Tank	1991 - 1995	2109613
C	183m NW	Unspecified Tank	1991 - 1995	2120818
C	184m NW	Unspecified Tanks	1979	2054814
C	185m NW	Unspecified Tank	1991 - 1995	2101205
C	185m NW	Unspecified Tank	1979	2108067
C	186m NW	Unspecified Tank	1991 - 1995	2106361
C	200m NW	Unspecified Tank	1991 - 1995	2074698
C	200m NW	Unspecified Tank	1979	2084732
K	200m SW	Garage	1991	2062725
C	211m NW	Unspecified Tank	1991 - 1995	2086532
C	211m NW	Unspecified Tank	1979	2120008
C	222m NW	Unspecified Tank	1979	2108927
C	222m NW	Unspecified Tank	1991 - 1995	2115650
C	236m NW	Unspecified Tank	1979	2074862
C	236m NW	Unspecified Tank	1991 - 1995	2086757
L	281m NW	Unspecified Tank	1991 - 1995	2104027
L	283m NW	Unspecified Tanks	1979	2054810



ID	Location	Land use	Dates present	Group ID
L	288m NW	Unspecified Tanks	1979	2054806
L	289m NW	Unspecified Tank	1991 - 1995	2087596
J	293m W	Unspecified Tanks	1979	2054798
J	293m W	Unspecified Tank	1991 - 1995	2088159
M	293m W	Unspecified Tanks	1979	2054797
J	294m NW	Unspecified Tank	1991 - 1995	2089064
M	295m W	Unspecified Tank	1991 - 1995	2116639
M	298m W	Unspecified Tank	1991 - 1995	2106648
N	298m NW	Unspecified Tanks	1979	2054813
N	299m NW	Unspecified Tank	1991 - 1995	2106226
N	299m NW	Unspecified Tank	1991 - 1995	2115392
N	299m NW	Unspecified Tank	1991 - 1995	2109705
P	307m SW	Unspecified Pits	1878	2048592
L	307m NW	Unspecified Tank	1991 - 1995	2102726
O	307m NW	Unspecified Tank	1991 - 1995	2065107
O	307m NW	Unspecified Tank	1979	2107362
L	317m NW	Unspecified Tank	1991 - 1995	2100910
J	320m W	Unspecified Tank	1991 - 1995	2120253
J	329m W	Unspecified Tank	1991 - 1995	2089437
M	334m W	Unspecified Tank	1991 - 1995	2080020
L	340m NW	Unspecified Tank	1991 - 1995	2088170
L	342m NW	Unspecified Tank	1995	2043797
L	350m NW	Unspecified Tank	1995	2043796
J	358m W	Unspecified Tank	1991 - 1995	2121787
J	358m W	Unspecified Tank	1991 - 1995	2114301
M	361m W	Unspecified Tanks	1979	2054796
M	361m W	Unspecified Tank	1991 - 1995	2085278
M	364m W	Unspecified Tank	1991 - 1995	2092959



ID	Location	Land use	Dates present	Group ID
M	366m W	Unspecified Tank	1991 - 1995	2115858
L	367m NW	Unspecified Tank	1991 - 1995	2100509
L	368m NW	Unspecified Tanks	1979	2054812
L	374m NW	Unspecified Tank	1991 - 1995	2120860
L	375m NW	Unspecified Tanks	1979	2054811
P	379m SW	Electric Substation	1991 - 1995	2088805
L	382m NW	Unspecified Tank	1995	2043794
L	392m NW	Unspecified Tank	1991 - 1995	2093217
Q	392m SW	Balancing Tank	1991 - 1995	2081212
Q	392m SW	Balancing Tank	1979	2113273
L	393m NW	Unspecified Tank	1995	2043795
Q	396m SW	Unspecified Pit	1955	2040108
L	404m NW	Unspecified Tank	1991 - 1995	2076706
L	408m NW	Unspecified Tank	1995	2043790
L	418m NW	Unspecified Tank	1995	2043793
L	430m NW	Unspecified Tank	1995	2043792
10	434m NW	Unspecified Commercial/Industrial	1991 - 1995	2080861

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

54

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
B	On site	Unspecified Tank	1973	342349



ID	Location	Land use	Dates present	Group ID
A	29m NW	Tanks	1974	352075
A	30m NW	Tanks	1996	355909
A	33m NW	Tanks	1974	352158
A	34m NW	Tanks	1996	354422
A	65m NW	Tanks	1974	357703
A	68m NW	Tanks	1974	357071
G	72m W	Unspecified Tank	1974 - 1996	354486
A	96m NW	Tanks	1974	355564
A	99m NW	Tanks	1974	355713
C	110m NW	Tanks	1974 - 1999	356614
C	124m NW	Tanks	1974 - 1999	349540
7	166m NW	Unspecified Tank	1996	342338
8	175m W	Tanks	1996	347783
C	176m NW	Tanks	1974 - 1999	349548
C	180m NW	Tanks	1974 - 1999	354167
C	184m NW	Tanks	1999	358709
C	184m NW	Tanks	1974	357931
C	198m NW	Tanks	1999	349752
C	210m NW	Tanks	1999	356966
C	221m NW	Tanks	1999	352109
C	236m NW	Tanks	1999	349741
L	281m NW	Tanks	1974 - 1999	353078
L	288m NW	Tanks	1999	351673
L	288m NW	Tanks	1974	353386
M	293m W	Tanks	1974	358125
J	294m W	Tanks	1974 - 1996	355637
M	294m W	Tanks	1996	357949
N	298m NW	Tanks	1974 - 1996	356565



ID	Location	Land use	Dates present	Group ID
M	299m W	Tanks	1974	349848
O	304m NW	Unspecified Tank	1999	342333
L	315m NW	Tanks	1999	353795
L	316m NW	Tanks	1999	347807
M	336m W	Tanks	1974	353056
L	339m NW	Tanks	1999	350014
L	340m NW	Tanks	1999	347806
L	349m NW	Tanks	1999	347805
M	361m W	Tanks	1974 - 1996	351672
L	367m NW	Tanks	1999	351894
L	367m NW	Tanks	1974	355570
L	374m NW	Tanks	1999	353899
L	374m NW	Tanks	1974	357923
Q	392m SW	Balancing Tank	1970 - 1993	353324
L	392m NW	Tanks	1999	357017
L	393m NW	Tanks	1999	347804
L	404m NW	Tanks	1999	350035
L	407m NW	Tanks	1999	354228
L	408m NW	Unspecified Tank	1993	352824
L	408m NW	Unspecified Tank	1969	351403
L	408m NW	Unspecified Tank	1982 - 1987	356150
L	415m NW	Tanks	1993	356901
L	418m NW	Tanks	1999	347803
L	430m NW	Tanks	1999	349692
11	437m NW	Unspecified Tank	1995 - 1999	357522

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m

11

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
F	42m SW	Electricity Substation	1992 - 1994	237951
A	93m NW	Electricity Substation	1974 - 1996	238783
6	163m NW	Electricity Substation	1996	224359
9	356m SW	Electricity Substation	1970 - 1993	231001
P	382m SW	Electricity Substation	1970 - 1996	240143
P	383m SW	Electricity Substation	1986	233097
12	443m NW	Electricity Substation	1993	224360
R	460m SW	Electricity Substation	1986 - 1993	229737
R	461m SW	Electricity Substation	-	224232
S	476m S	Electricity Substation	1972	224430
S	482m S	Electricity Substation	1993	224431

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.



1.5 Historical garages

Records within 500m

1

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

Features are displayed on the Past land use map on [page 14 >](#)

ID	Location	Land use	Dates present	Group ID
K	204m SW	Garage	1974	69216

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

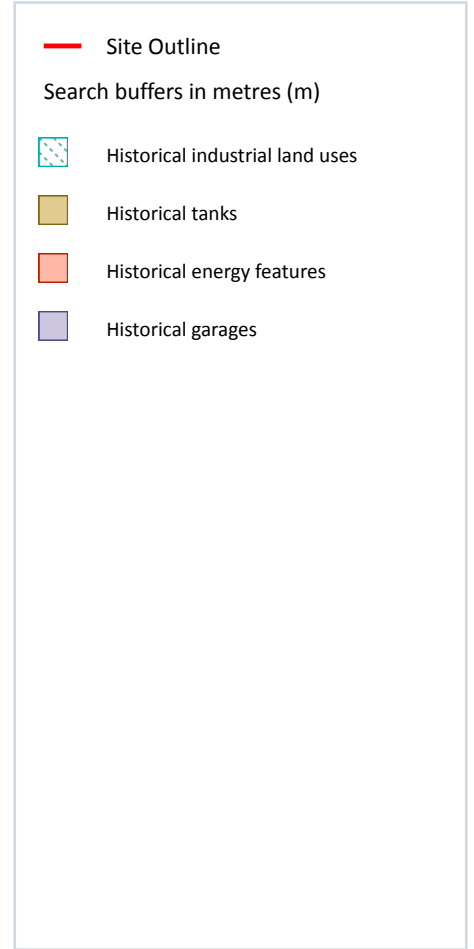
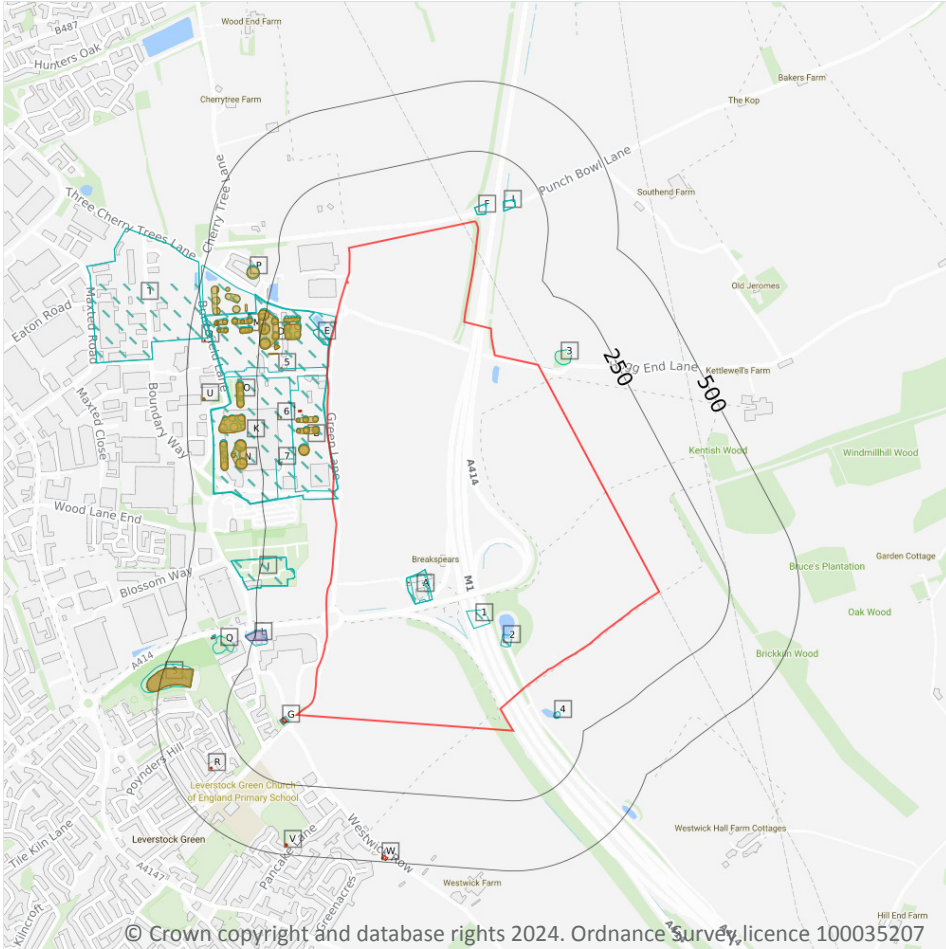
0

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

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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 23](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Cuttings	1995	2061237
2	On site	Cuttings	1995	2061238
A	On site	Unspecified Depot	1979	2071747

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Depot	1995	2083513
A	On site	Unspecified Depot	1991	2083513
B	On site	Unspecified Commercial/Industrial	1979	2058209
C	On site	Oil Storage Depot	1995	2117679
C	On site	Oil Storage Depot	1991	2117679
D	1m NW	Unspecified Commercial/Industrial	1979	2058213
E	5m NW	Unspecified Heap	1979	2087753
E	5m NW	Unspecified Heap	1995	2115851
E	5m NW	Unspecified Heap	1991	2115851
F	25m N	Cuttings	1995	2116384
F	25m N	Cuttings	1991	2116384
F	25m N	Cuttings	1979	2120977
B	29m NW	Unspecified Tank	1979	2073887
B	29m NW	Unspecified Tank	1995	2114061
B	29m NW	Unspecified Tank	1991	2114061
B	33m NW	Unspecified Tank	1979	2113057
B	33m NW	Unspecified Tank	1995	2118949
B	33m NW	Unspecified Tank	1991	2118949
G	35m SW	Electric Substation	1995	2053587
3	64m NE	Unspecified Pits	1878	2048588
B	64m NW	Unspecified Tank	1979	2064183
B	64m NW	Unspecified Tank	1995	2111432
B	64m NW	Unspecified Tank	1991	2111432
B	68m NW	Unspecified Tank	1979	2093767
B	68m NW	Unspecified Tank	1995	2073518
B	68m NW	Unspecified Tank	1991	2073518
H	73m W	Unspecified Tank	1979	2102761
H	73m W	Unspecified Tank	1995	2071150



ID	Location	Land Use	Date	Group ID
H	73m W	Unspecified Tank	1991	2071150
B	96m NW	Unspecified Tank	1979	2122466
B	96m NW	Unspecified Tank	1995	2105502
B	96m NW	Unspecified Tank	1991	2105502
B	99m NW	Unspecified Tank	1979	2093433
B	99m NW	Unspecified Tank	1995	2101114
B	99m NW	Unspecified Tank	1991	2101114
I	107m N	Cuttings	1995	2089330
I	107m N	Cuttings	1991	2089330
I	107m N	Cuttings	1979	2077354
D	109m NW	Unspecified Tank	1995	2094632
D	109m NW	Unspecified Tank	1991	2094632
D	111m NW	Unspecified Tanks	1979	2054809
D	115m NW	Unspecified Tank	1995	2076374
D	115m NW	Unspecified Tank	1991	2076374
D	125m NW	Unspecified Tank	1995	2089458
D	125m NW	Unspecified Tank	1991	2089458
J	125m SW	Burial Ground	1995	2068538
J	125m SW	Burial Ground	1991	2068538
J	125m SW	Burial Ground	1979	2101504
K	125m NW	Oil Storage Depots	1979	2058515
4	139m SE	Unspecified Pit	1878	2040100
D	140m NW	Unspecified Tank	1995	2122475
D	140m NW	Unspecified Tank	1991	2122475
D	144m NW	Unspecified Tank	1995	2114292
D	144m NW	Unspecified Tank	1991	2114292
D	149m NW	Unspecified Tank	1995	2091247
D	149m NW	Unspecified Tank	1991	2091247



ID	Location	Land Use	Date	Group ID
D	165m NW	Unspecified Tank	1995	2109613
D	165m NW	Unspecified Tank	1991	2109613
D	183m NW	Unspecified Tank	1995	2120818
D	183m NW	Unspecified Tank	1991	2120818
D	184m NW	Unspecified Tanks	1979	2054814
D	185m NW	Unspecified Tank	1979	2108067
D	185m NW	Unspecified Tank	1995	2101205
D	185m NW	Unspecified Tank	1991	2101205
D	186m NW	Unspecified Tank	1995	2106361
D	186m NW	Unspecified Tank	1991	2106361
D	200m NW	Unspecified Tank	1979	2084732
D	200m NW	Unspecified Tank	1995	2074698
D	200m NW	Unspecified Tank	1991	2074698
L	200m SW	Garage	1991	2062725
D	211m NW	Unspecified Tank	1979	2120008
D	211m NW	Unspecified Tank	1995	2086532
D	211m NW	Unspecified Tank	1991	2086532
D	222m NW	Unspecified Tank	1979	2108927
D	222m NW	Unspecified Tank	1995	2115650
D	222m NW	Unspecified Tank	1991	2115650
D	236m NW	Unspecified Tank	1979	2074862
D	236m NW	Unspecified Tank	1995	2086757
D	236m NW	Unspecified Tank	1991	2086757
M	281m NW	Unspecified Tank	1995	2104027
M	281m NW	Unspecified Tank	1991	2104027
M	283m NW	Unspecified Tanks	1979	2054810
M	288m NW	Unspecified Tanks	1979	2054806
M	289m NW	Unspecified Tank	1995	2087596



ID	Location	Land Use	Date	Group ID
M	289m NW	Unspecified Tank	1991	2087596
K	293m W	Unspecified Tanks	1979	2054798
K	293m W	Unspecified Tank	1995	2088159
K	293m W	Unspecified Tank	1991	2088159
N	293m W	Unspecified Tanks	1979	2054797
K	294m NW	Unspecified Tank	1995	2089064
K	294m NW	Unspecified Tank	1991	2089064
N	295m W	Unspecified Tank	1995	2116639
N	295m W	Unspecified Tank	1991	2116639
N	298m W	Unspecified Tank	1995	2106648
N	298m W	Unspecified Tank	1991	2106648
O	298m NW	Unspecified Tanks	1979	2054813
O	299m NW	Unspecified Tank	1995	2106226
O	299m NW	Unspecified Tank	1991	2106226
O	299m NW	Unspecified Tank	1995	2115392
O	299m NW	Unspecified Tank	1991	2115392
O	299m NW	Unspecified Tank	1995	2109705
O	299m NW	Unspecified Tank	1991	2109705
Q	307m SW	Unspecified Pits	1878	2048592
M	307m NW	Unspecified Tank	1995	2102726
M	307m NW	Unspecified Tank	1991	2102726
P	307m NW	Unspecified Tank	1979	2107362
P	307m NW	Unspecified Tank	1995	2065107
P	307m NW	Unspecified Tank	1991	2065107
M	317m NW	Unspecified Tank	1995	2100910
M	317m NW	Unspecified Tank	1991	2100910
K	320m W	Unspecified Tank	1995	2120253
K	320m W	Unspecified Tank	1991	2120253



ID	Location	Land Use	Date	Group ID
K	329m W	Unspecified Tank	1995	2089437
K	329m W	Unspecified Tank	1991	2089437
N	334m W	Unspecified Tank	1995	2080020
N	334m W	Unspecified Tank	1991	2080020
M	340m NW	Unspecified Tank	1995	2088170
M	340m NW	Unspecified Tank	1991	2088170
M	342m NW	Unspecified Tank	1995	2043797
M	350m NW	Unspecified Tank	1995	2043796
K	358m W	Unspecified Tank	1995	2121787
K	358m W	Unspecified Tank	1991	2121787
K	358m W	Unspecified Tank	1995	2114301
K	358m W	Unspecified Tank	1991	2114301
N	361m W	Unspecified Tanks	1979	2054796
N	361m W	Unspecified Tank	1995	2085278
N	361m W	Unspecified Tank	1991	2085278
N	364m W	Unspecified Tank	1995	2092959
N	364m W	Unspecified Tank	1991	2092959
N	366m W	Unspecified Tank	1995	2115858
N	366m W	Unspecified Tank	1991	2115858
M	367m NW	Unspecified Tank	1995	2100509
M	367m NW	Unspecified Tank	1991	2100509
M	368m NW	Unspecified Tanks	1979	2054812
M	374m NW	Unspecified Tank	1995	2120860
M	374m NW	Unspecified Tank	1991	2120860
M	375m NW	Unspecified Tanks	1979	2054811
Q	379m SW	Electric Substation	1995	2088805
Q	379m SW	Electric Substation	1991	2088805
M	382m NW	Unspecified Tank	1995	2043794



ID	Location	Land Use	Date	Group ID
M	392m NW	Unspecified Tank	1995	2093217
M	392m NW	Unspecified Tank	1991	2093217
S	392m SW	Balancing Tank	1979	2113273
S	392m SW	Balancing Tank	1995	2081212
S	392m SW	Balancing Tank	1991	2081212
M	393m NW	Unspecified Tank	1995	2043795
S	396m SW	Unspecified Pit	1955	2040108
M	404m NW	Unspecified Tank	1995	2076706
M	404m NW	Unspecified Tank	1991	2076706
M	408m NW	Unspecified Tank	1995	2043790
M	418m NW	Unspecified Tank	1995	2043793
M	430m NW	Unspecified Tank	1995	2043792
T	434m NW	Unspecified Commercial/Industrial	1995	2080861
T	434m NW	Unspecified Commercial/Industrial	1991	2080861

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

68

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 23 >](#)

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tank	1973	342349
B	29m NW	Tanks	1974	352075
B	30m NW	Tanks	1996	355909
B	33m NW	Tanks	1974	352158
B	34m NW	Tanks	1996	354422
B	65m NW	Tanks	1974	357703



ID	Location	Land Use	Date	Group ID
B	68m NW	Tanks	1974	357071
H	72m W	Unspecified Tank	1974	354486
H	73m W	Unspecified Tank	1996	354486
B	96m NW	Tanks	1974	355564
B	99m NW	Tanks	1974	355713
D	110m NW	Tanks	1974	356614
D	111m NW	Tanks	1999	356614
D	124m NW	Tanks	1974	349540
D	125m NW	Tanks	1999	349540
6	166m NW	Unspecified Tank	1996	342338
7	175m W	Tanks	1996	347783
D	176m NW	Tanks	1974	349548
D	176m NW	Tanks	1999	349548
D	180m NW	Tanks	1974	354167
D	180m NW	Tanks	1999	354167
D	184m NW	Tanks	1999	358709
D	184m NW	Tanks	1974	357931
D	198m NW	Tanks	1999	349752
D	210m NW	Tanks	1999	356966
D	221m NW	Tanks	1999	352109
D	236m NW	Tanks	1999	349741
M	281m NW	Tanks	1999	353078
M	281m NW	Tanks	1974	353078
M	288m NW	Tanks	1999	351673
M	288m NW	Tanks	1974	353386
N	293m W	Tanks	1974	358125
K	294m W	Tanks	1974	355637
N	294m W	Tanks	1996	357949



ID	Location	Land Use	Date	Group ID
K	294m W	Tanks	1996	355637
O	298m NW	Tanks	1996	356565
O	298m NW	Tanks	1974	356565
N	299m W	Tanks	1974	349848
P	304m NW	Unspecified Tank	1999	342333
M	315m NW	Tanks	1999	353795
M	316m NW	Tanks	1999	347807
N	336m W	Tanks	1974	353056
M	339m NW	Tanks	1999	350014
M	340m NW	Tanks	1999	347806
M	349m NW	Tanks	1999	347805
N	361m W	Tanks	1996	351672
N	361m W	Tanks	1974	351672
M	367m NW	Tanks	1999	351894
M	367m NW	Tanks	1974	355570
M	374m NW	Tanks	1999	353899
M	374m NW	Tanks	1974	357923
S	392m SW	Balancing Tank	1970	353324
S	392m SW	Balancing Tank	1993	353324
M	392m NW	Tanks	1999	357017
M	393m NW	Tanks	1999	347804
M	404m NW	Tanks	1999	350035
M	407m NW	Tanks	1999	354228
M	408m NW	Unspecified Tank	1993	352824
M	408m NW	Unspecified Tank	1969	351403
M	408m NW	Unspecified Tank	1982	356150
M	408m NW	Unspecified Tank	1987	356150
M	415m NW	Tanks	1993	356901



ID	Location	Land Use	Date	Group ID
M	418m NW	Tanks	1999	347803
M	430m NW	Tanks	1999	349692
U	437m NW	Unspecified Tank	1996	357522
U	437m NW	Unspecified Tank	1995	357522
U	437m NW	Unspecified Tank	1999	357522
U	437m NW	Unspecified Tank	1995	357522

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

17

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 23 >](#)

ID	Location	Land Use	Date	Group ID
G	42m SW	Electricity Substation	1992	237951
G	42m SW	Electricity Substation	1994	237951
B	93m NW	Electricity Substation	1974	238783
B	94m NW	Electricity Substation	1996	238783
5	163m NW	Electricity Substation	1996	224359
R	356m SW	Electricity Substation	1970	231001
R	357m SW	Electricity Substation	1993	231001
Q	382m SW	Electricity Substation	1970	240143
Q	383m SW	Electricity Substation	1996	240143
Q	383m SW	Electricity Substation	1996	240143
Q	383m SW	Electricity Substation	1986	233097
8	443m NW	Electricity Substation	1993	224360
V	460m SW	Electricity Substation	1986	229737
V	461m SW	Electricity Substation	-	224232



ID	Location	Land Use	Date	Group ID
V	461m SW	Electricity Substation	1993	229737
W	476m S	Electricity Substation	1972	224430
W	482m S	Electricity Substation	1993	224431

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

1

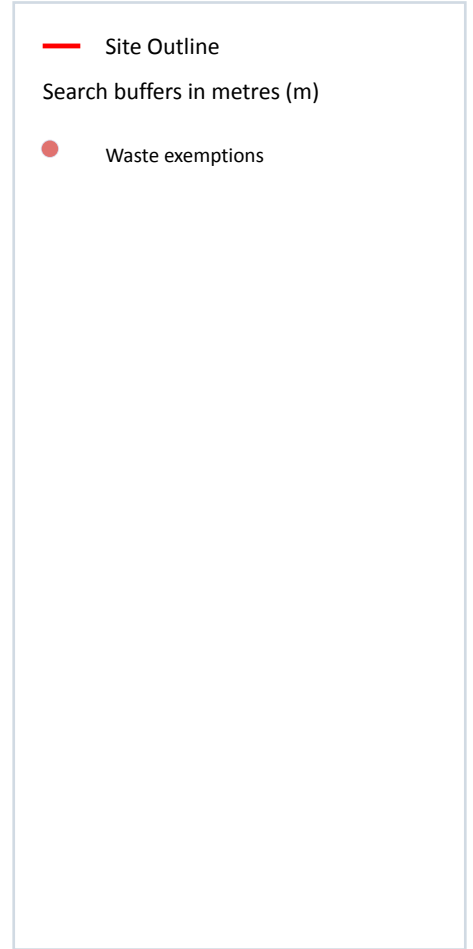
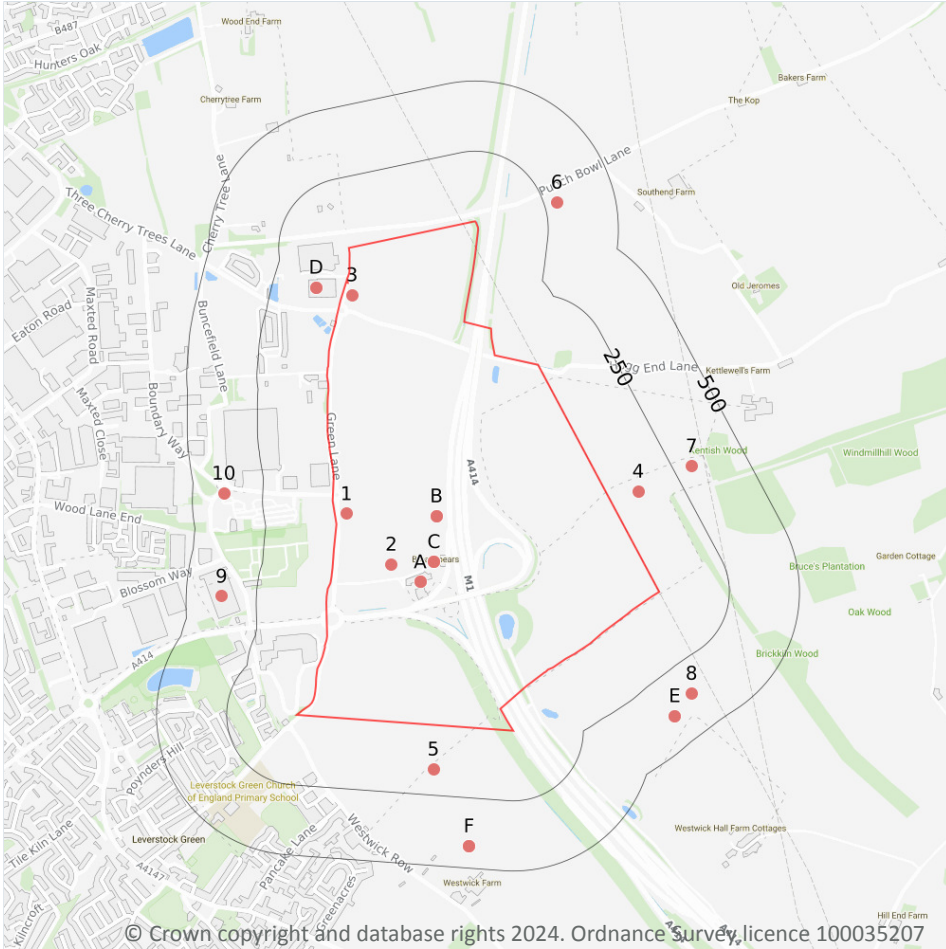
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 23 >](#)

ID	Location	Land Use	Date	Group ID
L	204m SW	Garage	1974	69216

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

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

0

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

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

3.5 Historical waste sites

Records within 500m

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

0

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

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

3.7 Waste exemptions

Records within 500m

43

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 34 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
1	On site	-	WEX001440	Storing waste exemption	On a farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
2	On site	Kettlewells Farm Hog End Lane St. Albans Hertfordshire AL3 6RG	EPR/TE5142VF /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
3	On site	Kettlewells Farm Hog End Lane St. Albans Hertfordshire AL3 6RG	EPR/TE5742V Q/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
A	On site	Breakspears Highways England depot	WEX267109	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	On site	Breakspears Highways England depot	WEX267109	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	On site	-	WEX216784	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	On site	-	WEX216784	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	On site	Breakspears Park, Breakspears Way, Hemel Hempstead, HP2 4FL	WEX093309	Using waste exemption	Not on a farm	Use of waste in construction
B	On site	Breakspears Park, Breakspears Way, Hemel Hempstead, HP2 4FL	WEX098846	Using waste exemption	Not on a farm	Use of waste in construction
B	On site	Breakspears Park, Breakspears Way, Hemel Hempstead, HP2 4FL	WEX099533	Treating waste exemption	Not on a farm	Screening and blending of waste
C	On site	Breakspears Maintenance Compound, Green Lane, Hemel Hempstead, HP2 4UE	WEX084246	Storing waste exemption	Not on a farm	Storage of waste in secure containers
C	On site	Breakspears Maintenance Compound, Green Lane, Hemel Hempstead, HP2 4UE	WEX084246	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	On site	Breakspears Maintenance Compound, Green Lane, Hemel Hempstead, HP2 4UE	WEX084246	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
C	On site	Breakspears Maintenance Compound, Green Lane, Hemel Hempstead, HP2 4UE	WEX084246	Treating waste exemption	Not on a farm	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling



ID	Location	Site	Reference	Category	Sub-Category	Description
C	On site	Breakspear Maintenance Compound, Green Lane, Hemel Hempstead, HP2 4UE	WEX084246	Treating waste exemption	Not on a farm	Aerobic composting and associated prior treatment
C	On site	Breakspear Maintenance Compound, Green Lane, Hemel Hempstead, HP2 4UE	WEX084246	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
C	On site	Breakspear Maintenance Compound, Green Lane, Hemel Hempstead, HP2 4UE	WEX084246	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	On site	Breakspear Maintenance Compound, Green Lane, Hemel Hempstead, HP2 4UE	WEX084246	Using waste exemption	Not on a farm	Use of waste in construction
C	On site	Breakspear Maintenance Compound, Green Lane, Hemel Hempstead, HP2 4UE	WEX084246	Treating waste exemption	Not on a farm	Sorting mixed waste
C	On site	Breakspear Maintenance Compound, Green Lane, Hemel Hempstead, HP2 4UE	WEX084246	Treating waste exemption	Not on a farm	Manual treatment of waste
C	On site	Breakspear Maintenance Compound, Green Lane, Hemel Hempstead, HP2 4UE	WEX084246	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
C	On site	Breakspear Maintenance Compound, Green Lane, Hemel Hempstead, HP2 4UE	WEX084246	Treating waste exemption	Not on a farm	Screening and blending of waste
C	On site	Breakspear Maintenance Compound, Green Lane, Hemel Hempstead, HP2 4UE	WEX084246	Treating waste exemption	Not on a farm	Recovery of scrap metal
C	On site	Breakspear Maintenance Compound, Green Lane, Hemel Hempstead, HP2 4UE	WEX084246	Using waste exemption	Not on a farm	Use of mulch



ID	Location	Site	Reference	Category	Sub-Category	Description
D	97m NW	PUNCHBOWL PARK, CHERRY TREE LANE, HEMEL HEMPSTEAD, HP2 7EU	WEX358739	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	97m NW	PUNCHBOWL PARK, CHERRY TREE LANE, HEMEL HEMPSTEAD, HP2 7EU	WEX358739	Treating waste exemption	Not on a farm	Sorting mixed waste
D	97m NW	PUNCHBOWL PARK, CHERRY TREE LANE, HEMEL HEMPSTEAD, HP2 7EU	WEX151165	Storing waste exemption	Not on a farm	Storage of waste in a secure place
4	102m E	Kettlewells Farm Hog End Lane St. Albans Hertfordshire AL3 6RG	EPR/NE5280Y H/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of sludge
5	159m S	-	WEX005759	Storing waste exemption	On a farm	Storage of sludge
6	294m N	-	WEX257033	Storing waste exemption	On a farm	Storage of sludge
7	312m E	Kettlewells Farm Hog End Lane St. Albans Hertfordshire AL3 6RG	EPR/FE5787ZL /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of sludge
8	365m SE	CLEARWATER COURT, VASTERN ROAD, READING, RG1 8DB	WEX094792	Storing waste exemption	On a farm	Storage of sludge
9	374m W	Focus Group Logistics, Unit DC4B, Blossom Way, Hemel Hempstead, HP2 4ZB	WEX273169	Storing waste exemption	Not on a farm	Storage of waste in a secure place
10	389m W	Unit 1 Sunswept Buncfield Lane Hemel Hempstead Hertfordshire HP2 7HY	EA/EPR/VP368 7CN/A001	Treating waste exemption	Non- Agricultural Waste Only	Repair or refurbishment of WEEE
E	393m SE	Westwick Hall Farm St. Albans Hertfordshire AL3 6AP	EPR/BE5750ZX /A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of sludge
E	393m SE	Westwick Hall Farm St. Albans Hertfordshire AL3 6AP	EPR/ME5546H X/A001	Storing waste exemption	Non- Agricultural Waste Only	Storage of sludge
F	423m S	Westwick Row Farm Westwick Row Hemel Hempstead Hertfordshire HP2 4UB	EPR/TF0700W Z/A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

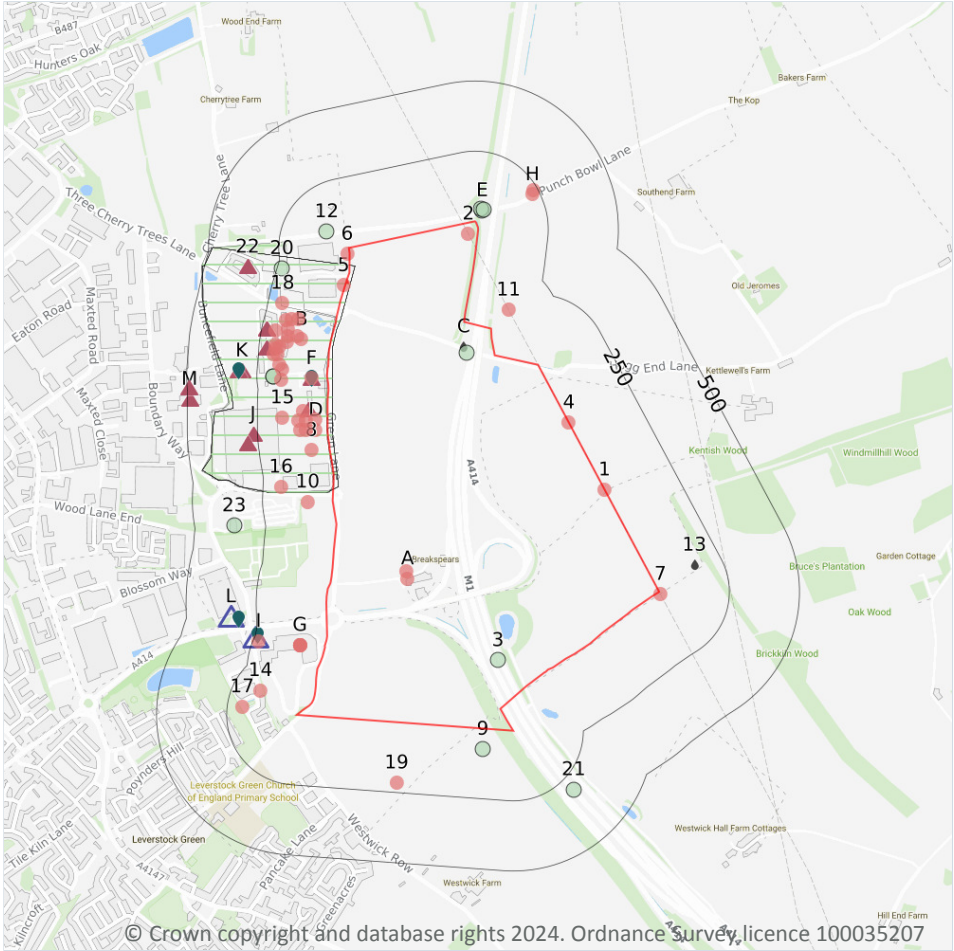


ID	Location	Site	Reference	Category	Sub-Category	Description
F	423m S	Westwick Row Farm Westwick Row Hemel Hempstead Hertfordshire HP2 4UB	EPR/TF0700W Z/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
F	423m S	Westwick Row Farm Westwick Row Hemel Hempstead Hertfordshire HP2 4UB	EPR/DF0100W T/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
F	423m S	Westwick Row Farm Westwick Row Hemel Hempstead Hertfordshire HP2 4UB	EPR/DF0100W T/A001	Using waste exemption	Both agricultural and non- agricultural waste	Use of waste in construction
F	423m S	Westwick Row Farm Westwick Row Hemel Hempstead Hertfordshire HP2 4UB	EPR/TF0700W Z/A001	Treating waste exemption	Agricultural Waste Only	Screening and blending of waste
F	423m S	Westwick Row Farm Westwick Row Hemel Hempstead Hertfordshire HP2 4UB	EPR/DF0100W T/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Screening and blending of waste
F	423m S	Westwick Row Farm Westwick Row Hemel Hempstead Hertfordshire HP2 4UB	EPR/DF0100W T/A001	Treating waste exemption	Both agricultural and non- agricultural waste	Recovery of scrap metal

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- ▲ Current or recent petrol stations
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- ◆ Licensed pollutant release (Part A(2)/B)
- ◆ Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m **50**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 40](#) >

ID	Location	Company	Address	Activity	Category
1	On site	Pylon	Hertfordshire, AL3	Electrical Features	Infrastructure and Facilities
2	On site	Pylon	Hertfordshire, AL3	Electrical Features	Infrastructure and Facilities
A	On site	Pylon	Hertfordshire, HP2	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
A	On site	Mast (Telecommunication)	Hertfordshire, HP2	Telecommunications Features	Infrastructure and Facilities
4	0m NE	Pylon	Hertfordshire, AL3	Electrical Features	Infrastructure and Facilities
5	6m NW	Electricity Sub Station	Hertfordshire, HP2	Electrical Features	Infrastructure and Facilities
6	9m NW	Electricity Sub Station	Hertfordshire, HP2	Electrical Features	Infrastructure and Facilities
7	9m SE	Pylon	Hertfordshire, AL3	Electrical Features	Infrastructure and Facilities
D	42m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
D	45m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
F	56m NW	BP Oil	Buncefield Oil Depot Terminal, Green Lane, Hemel Hempstead, Hertfordshire, HP2 7HZ	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden
8	65m W	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
D	77m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
D	78m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
G	89m SW	A 1 R Services Ltd	Breakspear Park, Breakspear Way, Hemel Hempstead, Hertfordshire, HP2 4TZ	Construction Completion Services	Construction Services
G	89m SW	Britvic UK Plc	Breakspear Park, Breakspear Way, Hemel Hempstead, Hertfordshire, HP2 4TZ	Non Alcoholic Drinks	Foodstuffs
G	89m SW	Raims Ltd	Breakspear Park, Breakspear Way, Hemel Hempstead, Hertfordshire, HP2 4TZ	Colours, Chemicals and Water Softeners and Supplies	Industrial Products
G	89m SW	Arrandene M F G Ltd	Suite E1 B Ground Floor Breakspear Park, Breakspear Way, Hemel Hempstead, Hertfordshire, HP2 4TZ	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
G	89m SW	Transonics Plc	Breakspear Park, Breakspear Way, Hemel Hempstead, Hertfordshire, HP2 4TZ	Electrical Components	Industrial Products
10	89m W	Mast (Telecommunication)	Hertfordshire, HP2	Telecommunications Features	Infrastructure and Facilities
D	89m NW	Electricity Sub Station	Hertfordshire, HP2	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
11	92m N	Pylon	Hertfordshire, AL3	Electrical Features	Infrastructure and Facilities
D	99m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
B	104m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
D	104m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
B	120m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
B	133m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
B	152m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
B	154m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
B	155m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
14	157m SW	Electricity Sub Station	Hertfordshire, HP2	Electrical Features	Infrastructure and Facilities
B	159m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
15	161m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
B	162m NW	Electricity Sub Station	Hertfordshire, HP2	Electrical Features	Infrastructure and Facilities
B	165m NW	British Pipeline Agency	Buncefield Terminal, Buncefield Lane, Hemel Hempstead, Hertfordshire, HP2 7HZ	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden
B	173m NW	Electricity Sub Station	Hertfordshire, HP2	Electrical Features	Infrastructure and Facilities
B	174m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
B	179m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
B	184m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
16	186m W	Electricity Sub Station	Hertfordshire, HP2	Electrical Features	Infrastructure and Facilities
B	190m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
B	191m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
17	197m SW	Pumping Station	Hertfordshire, HP2	Water Pumping Stations	Industrial Features
B	197m NW	Tank	Hertfordshire, HP2	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
18	199m NW	Electricity Sub Station	Hertfordshire, HP2	Electrical Features	Infrastructure and Facilities
B	202m NW	Tanks	Hertfordshire, HP2	Tanks (Generic)	Industrial Features
19	215m S	Electricity Poles	Hertfordshire, HP2	Electrical Features	Infrastructure and Facilities
H	224m N	Pylon	Hertfordshire, AL3	Electrical Features	Infrastructure and Facilities
I	232m SW	BP Service Station	Breakspear Way, -, Hemel Hempstead, Hertfordshire, HP2 4TZ	Petrol and Fuel Stations	Road and Rail
H	233m N	Mast (Telecommunication)	Hertfordshire, AL3	Telecommunications Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

2

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 40 >](#)

ID	Location	Company	Address	LPG	Status
I	246m SW	BP	Breakspear Way, Buncefield Lane, Hemel Hempstead, Hertfordshire, HP2 4TZ	No	Open
L	342m SW	SHELL	Breakspear Way, Buncefield Lane, Hemel Hempstead, Hertfordshire, HP2 4TZ	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.



4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

6

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.

Features are displayed on the Current industrial land use map on [page 40 >](#)

ID	Location	Company	Address	Operational status	Tier
B	On site	BP Oil UK Limited	BP Oil UK Limited, Buncefield Terminal, Buncefield Oil Terminal, Green Lane, Hemel Hempstead, Hertfordshire, HP2 7JA	Current COMAH Site	COMAH Upper Tier Operator
B	On site	British Pipeline Agency Limited	British Pipeline Agency Limited, Buncefield Terminal, Green Lane, Hemel Hempstead, Hertfordshire, HP2 7HZ	Current COMAH Site	COMAH Upper Tier Operator
B	On site	Bp Oil Uk Ltd	Bp Oil Uk Ltd, Green Lane, Off Brakespeare Way, Hemel Hempstead, HP4 7JA	Historical NIHHS Site	-
B	On site	Hertfordshire Oil Storage Ltd	Hertfordshire Oil Storage Ltd, Buncefield Terminal, Green Lane, Hemel Hempstead, HP2 7HZ	Historical NIHHS Site	-
B	On site	Mobil Oil Company Ltd	Mobil Oil Company Ltd, Buncefield Terminal, Green Lane, Hemel Hempstead	Historical NIHHS Site	-
B	On site	Shell UK Oil	Shell UK Oil, Buncefield Terminal, Green Lane, Hemel Hempstead, HP2 7JB	Historical NIHHS Site	-



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

15

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.

Features are displayed on the Current industrial land use map on [page 40 >](#)

ID	Location	Details	
F	55m NW	Application reference number: 4/01475/92/HAZ Application status: Historical Consent Application date: 19/11/1992 Address: Mobil Oil Co Ltd, Buncefield Terminal, Green Lane, Hemel Hempstead, Hertfordshire, HP2 TJA	Details: Application for deemed consent - storage of hazardous substances Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
D	68m NW	Application reference number: 4/01973/99/HAZ Application status: Historical Consent Application date: 15/11/1999 Address: Hertfordshire Oil Storage Ltd, Buncefield Terminal, Green Lane, Hemel Hempstead, Herts, HP2 7NZ	Details: Storage of petroleum Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
D	68m NW	Application reference number: 4/00225/08/HAZ Application status: Historical Consent Application date: 23/01/2008 Address: Buncefield Terminal, Green Lane, Hemel Hempstead, HP2 7NZ	Details: Storage of petroleum products and additives Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
B	222m NW	Application reference number: 4/01810/09/HAZ Application status: Withdrawn Application date: 06/11/2009 Address: WLPS/UKOP, Buncefield Oil Terminal, Green Lane, Hemel Hempstead, HP2 7HZ	Details: Oil pipeline and storage facilities, storage of aviation kerosene for transfer to Heathrow and Gatwick airports via pipeline and storage of pipeline product interface material. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified



ID	Location	Details	
B	232m NW	Application reference number: 4/01807/99/HAZ Application status: Historical Consent Application date: 20/10/1999 Address: BP Oil UK Ltd, Buncefield Oil Terminal, Green Lane, Hemel Hempstead, Hertfordshire, England, HP2 7JA	Details: Storage of aviation kerosene Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
B	232m NW	Application reference number: 4/01528/92/4 Application status: Historical Consent Application date: 30/11/1992 Address: Herts Oil Storage, Green Lane, Hemel Hempstead, HP2 7HZ	Details: Storage of hazardous substance Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
B	232m NW	Application reference number: 4/00987/05/HAZ Application status: Historical Consent Application date: 03/05/2005 Address: Buncefield Oil Terminal, Green Lane, Hemel Hempstead, Herts, HP2 7JA	Details: Storage of petroleum products and additives Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
B	232m NW	Application reference number: 4/00321/03/HAZ Application status: Historical Consent Application date: 16/01/2003 Address: Buncefield Oil Terminal, Green Lane, Hemel Hempstead, Herts, HP2 7JA	Details: Storage of petroleum products and additives Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
J	266m W	Application reference number: 4/01788/99/HAZ Application status: Historical Consent Application date: 12/10/1999 Address: British Pipeline Agency Limited, Buncefield Oil Terminal, Green Lane, Hemel Hempstead, Hertfordshire, England, HP2 7HZ	Details: Storage of aviation kerosene Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
J	287m W	Application reference number: 4/02082/09/HAZ Application status: Withdrawn Application date: 23/12/2009 Address: Buncefield Oil Terminal, Green Lane, Hemel Hempstead, HP2 7JA	Details: Storage of jet fuel, diesel, gasoline, kerosene, gas oil, interface oil, ethanol and additives. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
K	304m NW	Application reference number: 5/2010/3107 Application status: Historical Consent Application date: 25/01/2011 Address: BPA Buncefield Terminal, Green Lane, Hemel Hempstead, HP2 7HZ	Details: Oil Pipeline And Storage Facilities, Storage Of Aviation Kerosene For Transfer To Heathrow And Gatwick Airports Via Pipeline And Storage Of Pipeline Product Interface Material Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
K	316m NW	Application reference number: No Details Application status: Historical Consent Application date: No Details Address: Hertfordshire Oil Storage Ltd, Buncefield Oil Terminal, Green Lane, Hemel Hempstead, Hertfordshire, England, HP2 7HZ	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details



ID	Location	Details	
22	352m NW	Application reference number: 4/02158/10/HAZ Application status: Historical Consent Application date: 24/12/2010 Address: Transco formerly WLPS/UKOP, Buncefield Oil Terminal, Green Lane, Hemel Hempstead, HP2 7HZ	Details: Oil pipeline and storage facilities, storage of aviation kerosene for transfer to Heathrow and Gatwick airports via pipeline and storage of pipeline product interface material. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
M	492m W	Application reference number: 4/01445/92/HAZ Application status: Historical Consent Application date: 11/11/1992 Address: Sheel [UK] Ltd, Buncefield, Hemel Hempstead, Hertfordshire, HP2 7HZ	Details: Storage of hazardous substance Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
M	493m NW	Application reference number: 4/01853/99/4 Application status: Historical Consent Application date: 27/10/1999 Address: Shell UK Oil, Green Lane, Hemel Hempstead, Herts, HP2 7JB	Details: Storage and loading of hydrocarbon products Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

4

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

Features are displayed on the Current industrial land use map on [page 40 >](#)



ID	Location	Address	Details	
F	57m NW	BP Oil UK Ltd, Buncefield Terminal, Green Lane, Hemel Hempstead, Hertfordshire, HP2 7JA	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
I	244m SW	BP Oil UK Ltd, Breakspear Way, Hemel Hempstead, Hertfordshire, HP2 4TZ	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
L	316m SW	Shell UK Oil Products Ltd, Breakspear Way, Hemel Hempstead, Hertfordshire, HP2 4TZ	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
K	317m NW	Hertfordshire Oil Storage Ltd, Buncefield Terminal, Green Lane, Hemel Hempstead, Herts, HP2 7HZ	Process: Unloading of Petrol into Storage at Service Stations 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

2

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

Features are displayed on the Current industrial land use map on [page 40 >](#)



ID	Location	Address	Details	
C	On site	JUNCTION 8 COMPOUND, GREEN LANE, (OFF BREAKSPEAR WAY A414), HEMEL HEMPSTEAD, HERTFORDSHIRE, HP2 4UE	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: CANM.1100 Permit Version: 1 Receiving Water: TO UNKNOWN DITCH TRIBUTARY	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 28/06/2006 Effective Date: 20/06/2006 Revocation Date: 01/05/2010
13	155m E	TOP END, OLD WESTON, HUNTINGDON, CAMBS., PE28 5LL	Effluent Type: UNSPECIFIED Permit Number: PR1LFU66 Permit Version: 1 Receiving Water: Land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 18/07/1980 Effective Date: 18/07/1980 Revocation Date: 01/10/1996

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m

0

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

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



4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

12

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

Features are displayed on the Current industrial land use map on [page 40 >](#)

ID	Location	Details	
3	On site	Incident Date: 10/09/2002 Incident Identification: 106684 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)
C	On site	Incident Date: 25/09/2002 Incident Identification: 110589 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)
E	46m N	Incident Date: 18/04/2002 Incident Identification: 72706 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)
E	50m N	Incident Date: 17/05/2002 Incident Identification: 79334 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)
E	53m N	Incident Date: 19/04/2002 Incident Identification: 73116 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)



ID	Location	Details	
9	72m S	Incident Date: 07/11/2003 Incident Identification: 200452 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
12	98m NW	Incident Date: 02/10/2002 Incident Identification: 111975 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
B	191m NW	Incident Date: 11/12/2005 Incident Identification: 365351 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 1 (Major) Land Impact: Category 1 (Major) Air Impact: Category 1 (Major)
B	191m NW	Incident Date: 11/12/2005 Incident Identification: 365351 Pollutant: Oils and Fuel Pollutant Description: Kerosene and Aviation Fuel	Water Impact: Category 1 (Major) Land Impact: Category 1 (Major) Air Impact: Category 1 (Major)
20	233m NW	Incident Date: 14/07/2003 Incident Identification: 173589 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
21	300m SE	Incident Date: 05/02/2002 Incident Identification: 56656 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
23	360m W	Incident Date: 09/10/2001 Incident Identification: 35704 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Vegetable Cuttings and Deposits	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m

0

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

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



4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m

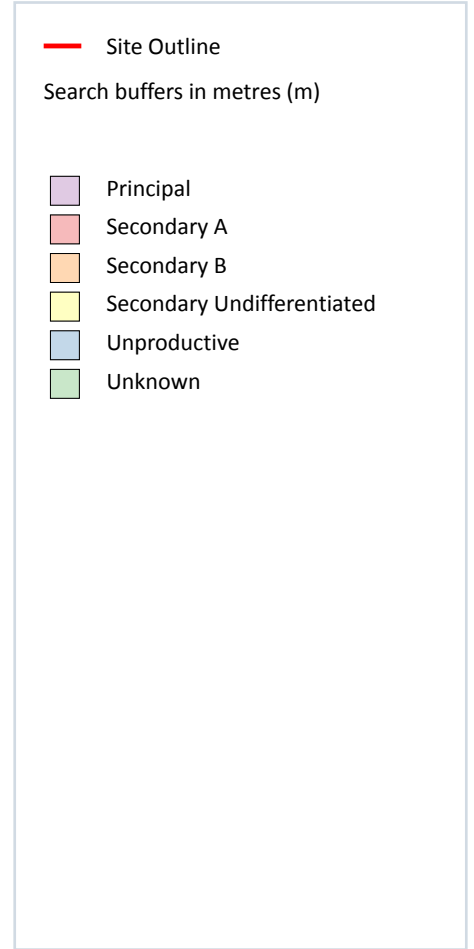
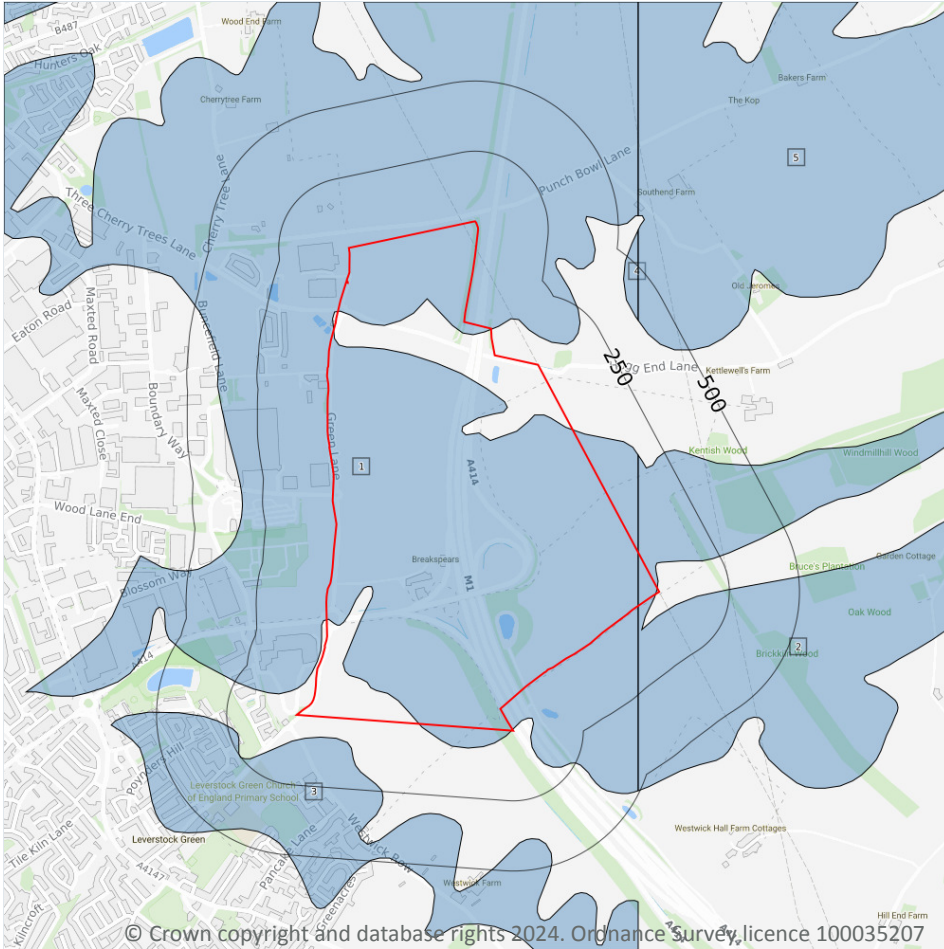
0

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

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



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

5

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 53 >](#)

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
2	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
3	73m SW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

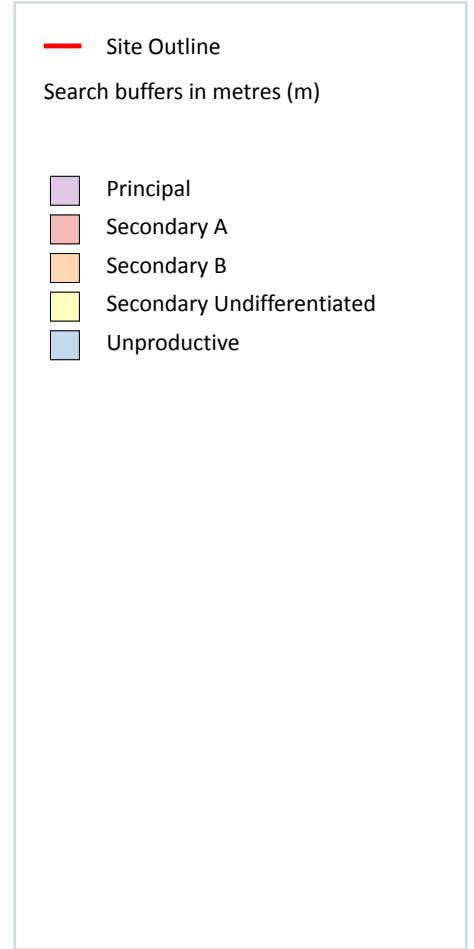
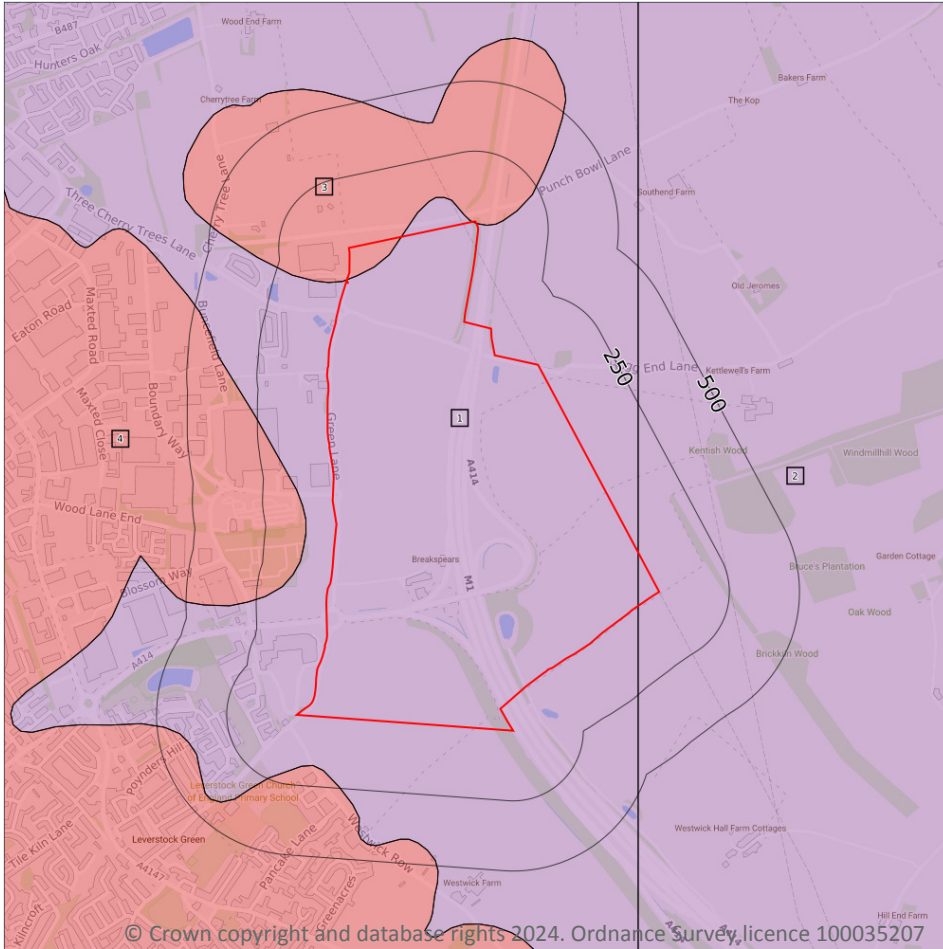


ID	Location	Designation	Description
4	387m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
5	390m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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



Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

4

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 55](#) >

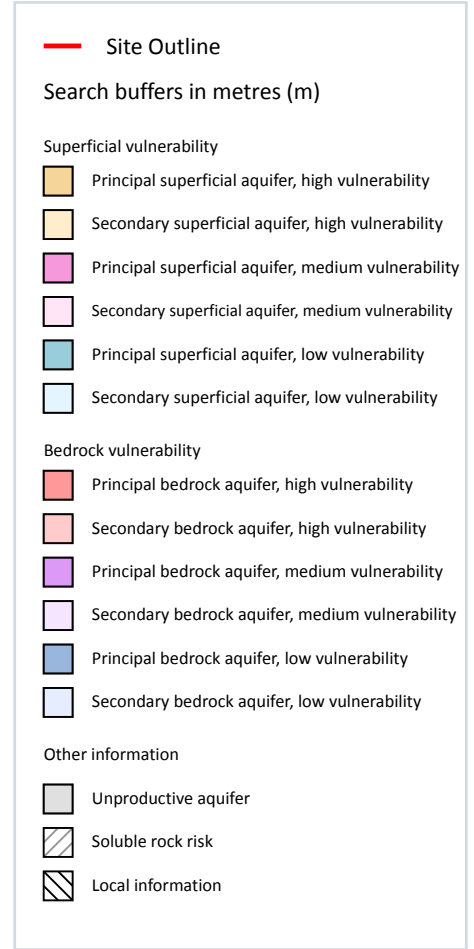
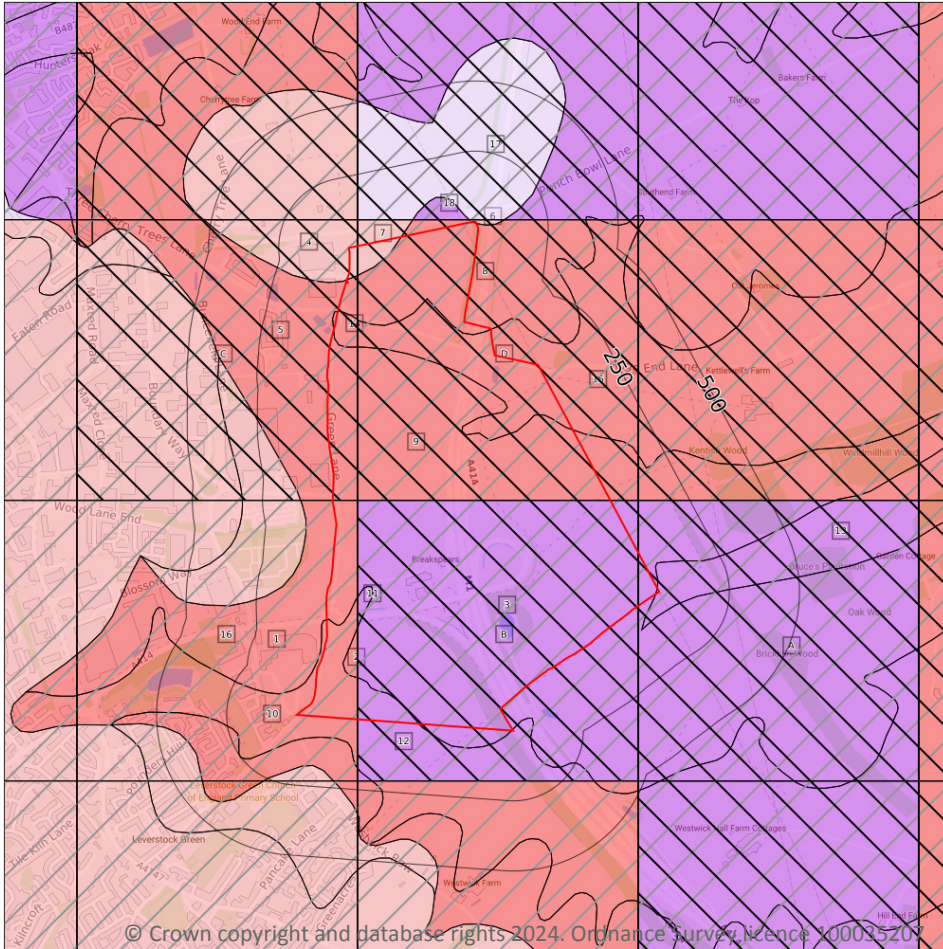
ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

ID	Location	Designation	Description
3	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
4	105m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

18

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 57](#) >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
2	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
3	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
8	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
9	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
10	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
11	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
12	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
13	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
14	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
15	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
A	On site	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
17	5m N	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
18	10m N	Summary Classification: Principal bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Principal 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

5

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



ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
16	Very significant soluble rocks are likely to be present with a high possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, especially in adverse conditions such as concentrated surface or subsurface water flow.	28.999999999999996%
A	Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.	72.0%
B	Very significant soluble rocks are likely to be present with a high possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, especially in adverse conditions such as concentrated surface or subsurface water flow.	0.0%
C	Very significant soluble rocks are likely to be present with a high possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, especially in adverse conditions such as concentrated surface or subsurface water flow.	33.0%
D	Very significant soluble rocks are likely to be present with a high possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, especially in adverse conditions such as concentrated surface or subsurface water flow.	22.0%

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

5.5 Groundwater vulnerability- local information

Records on site	4
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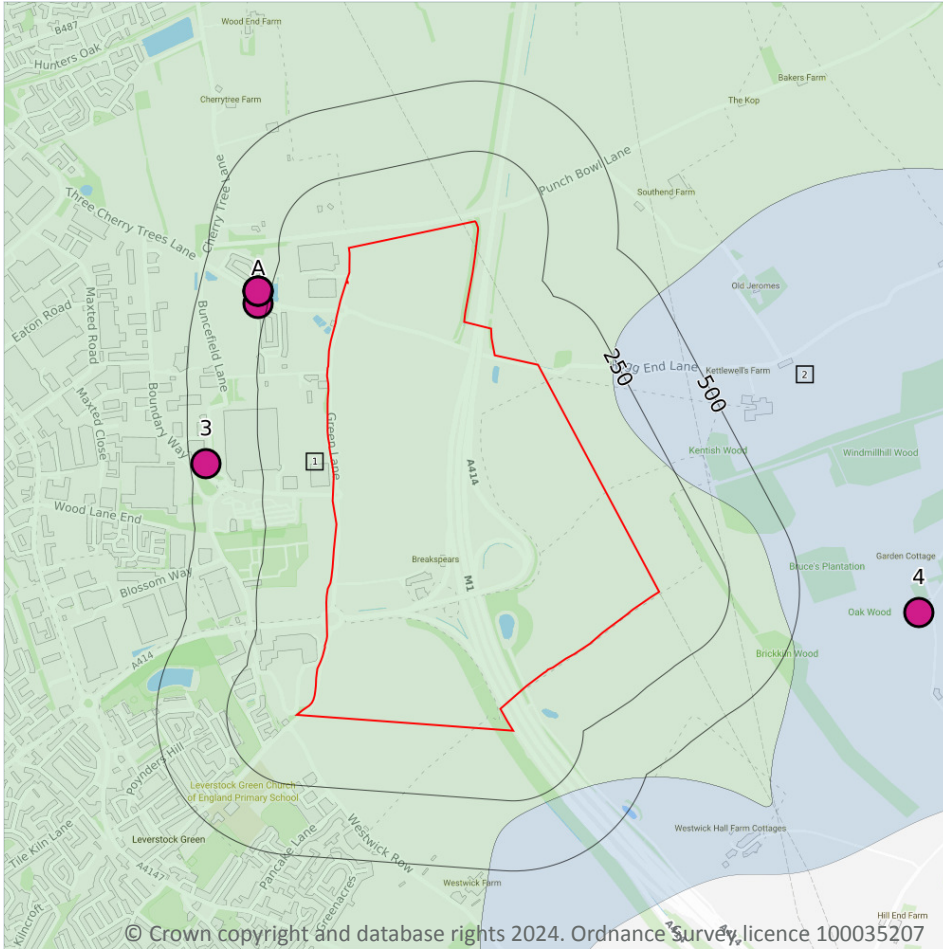
This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

ID	Summary	Additional information
A	Known fissure flow in area	Bricket Wood fissure flow
B	Known fissure flow in area	Bricket Wood fissure flow
C	Known fissure flow in area	Bricket Wood fissure flow
D	Known fissure flow in area	Bricket Wood fissure flow

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



Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

8

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 62 >](#)

ID	Location	Details	
A	283m NW	Status: Historical Licence No: TH/039/0028/027 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: BUNCEFIELD OIL DEPOT BOREHOLE 2 Data Type: Point Name: BRITISH PIPELINE AGENCY LIMITED Easting: 508646 Northing: 208701	Annual Volume (m ³): 31536 Max Daily Volume (m ³): 86.4 Original Application No: - Original Start Date: 29/09/2012 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 29/09/2012 Version End Date: -
A	291m NW	Status: Historical Licence No: TH/039/0028/003 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: BUNCEFIELD OIL DEPOT BOREHOLE Data Type: Point Name: BRITISH PIPELINE AGENCY LIMITED Easting: 508647 Northing: 208744	Annual Volume (m ³): 175200 Max Daily Volume (m ³): 480 Original Application No: - Original Start Date: 04/09/2009 Expiry Date: 03/09/2010 Issue No: 1 Version Start Date: 04/09/2009 Version End Date: -
A	291m NW	Status: Historical Licence No: TH/039/0028/014 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: BUNCEFIELD OIL DEPOT BOREHOLE Data Type: Point Name: BRITISH PIPELINE AGENCY LIMITED Easting: 508647 Northing: 208744	Annual Volume (m ³): 31536 Max Daily Volume (m ³): 86.4 Original Application No: - Original Start Date: 04/11/2010 Expiry Date: 03/11/2011 Issue No: 1 Version Start Date: 04/11/2010 Version End Date: -
A	291m NW	Status: Historical Licence No: TH/039/0028/027 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: BUNCEFIELD OIL DEPOT BOREHOLE Data Type: Point Name: BRITISH PIPELINE AGENCY LIMITED Easting: 508647 Northing: 208744	Annual Volume (m ³): 31536 Max Daily Volume (m ³): 86.4 Original Application No: - Original Start Date: 29/09/2012 Expiry Date: 31/03/2025 Issue No: 1 Version Start Date: 29/09/2012 Version End Date: -
3	443m W	Status: Historical Licence No: 28/39/28/0573 Details: Non-Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: HEMEL TELEHOUSE-BOREHOLE A Data Type: Point Name: HUTCHISON NETWORK SERVICES UK LIMITED Easting: 508460 Northing: 208130	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/12/2002 Expiry Date: - Issue No: 2 Version Start Date: 01/01/2003 Version End Date: -



ID	Location	Details	
4	928m E	Status: Active Licence No: 28/39/28/0126 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'B' AT GORHAMBURY Data Type: Point Name: GORHAMBURY ESTATES CO Easting: 511000 Northing: 207600	Annual Volume (m ³): 8342 Max Daily Volume (m ³): 22.7 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/06/1966 Version End Date: -
-	1833m N	Status: Historical Licence No: 28/39/28/0381 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT TULLOCHSIDE, REDBOURN Data Type: Point Name: HEWER Easting: 509100 Northing: 210800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/04/1970 Expiry Date: - Issue No: 100 Version Start Date: 13/04/1970 Version End Date: -
-	1871m E	Status: Active Licence No: 28/39/28/0126 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: BOREHOLE 'A' AT GORHAMBURY Data Type: Point Name: GORHAMBURY ESTATES CO Easting: 511800 Northing: 208400	Annual Volume (m ³): 8342 Max Daily Volume (m ³): 22.7 Original Application No: - Original Start Date: 13/06/1966 Expiry Date: - Issue No: 100 Version Start Date: 13/06/1966 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

0

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.

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

2

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on [page 62 >](#)

ID	Location	Type	Description
1	On site	3	Total catchment
2	181m NE	2	Outer catchment

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

5.10 Source Protection Zones (confined aquifer)

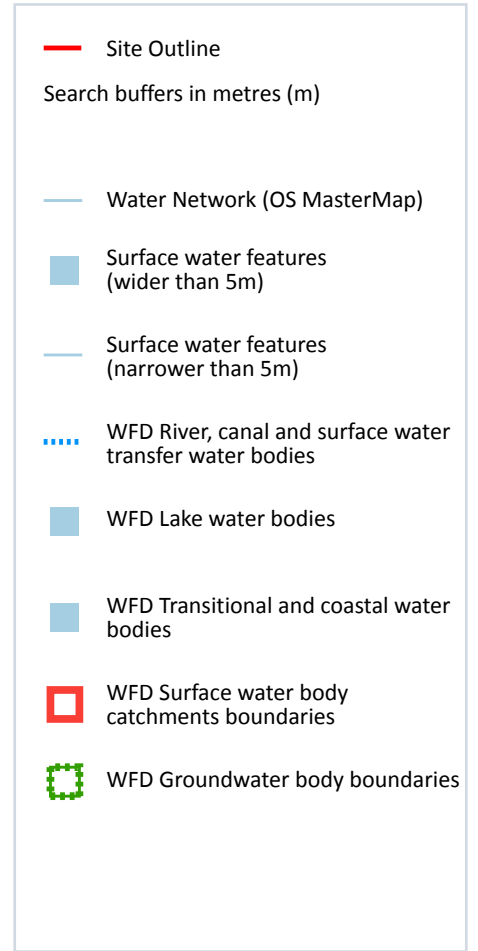
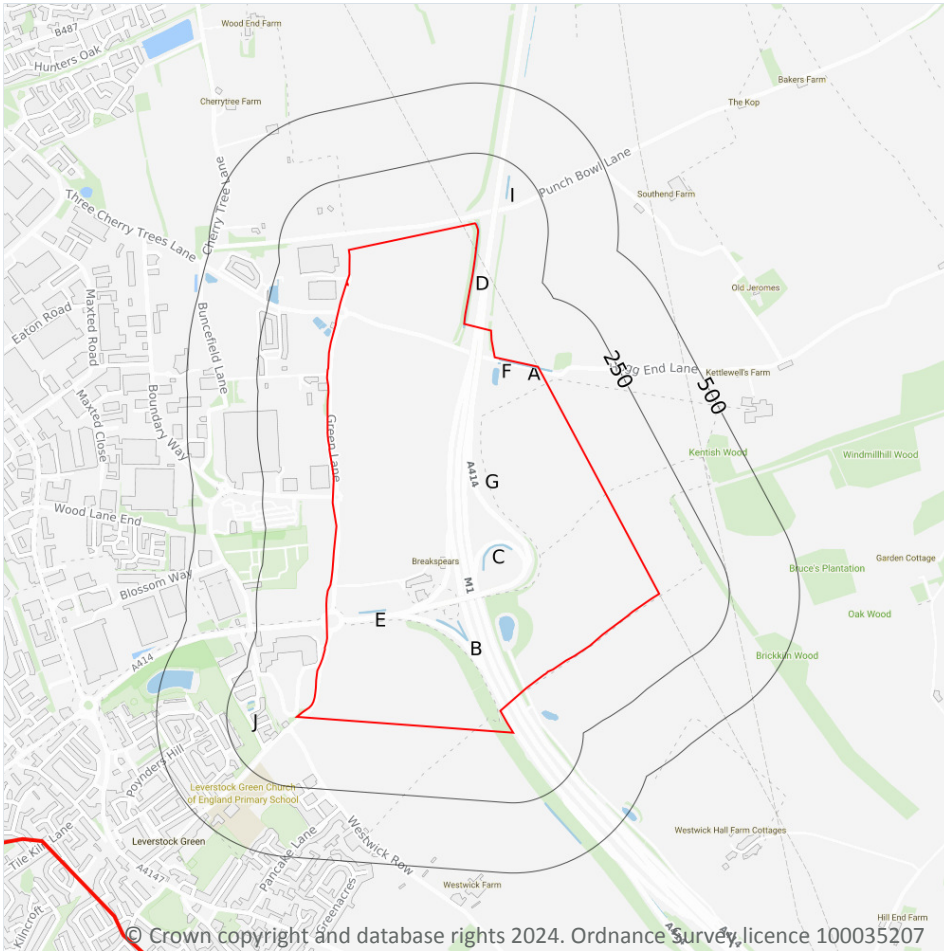
Records within 500m

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

11

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 66 >](#)

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



ID	Location	Type of water feature	Ground level	Permanence	Name
B	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.	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)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	141m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	156m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	160m SW	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

9

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 66 >](#)



This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

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

Features are displayed on the Hydrology map on [page 66 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
G	On site	River	Ver	GB106039029920	Colne	Colne

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

6.4 WFD Surface water bodies

Records identified

1

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

Features are displayed on the Hydrology map on [page 66 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	2663m E	River	Ver	GB106039029920 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site

1

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



Features are displayed on the Hydrology map on [page 66](#) >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
G	On site	Mid-Chilterns Chalk	GB40601G601200 ↗	Poor	Poor	Poor	2019

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

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m

0

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

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

7.2 Historical Flood Events

Records within 250m

0

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

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

7.3 Flood Defences

Records within 250m

0

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

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



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

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

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

7.7 Flood Zone 3

Records within 50m

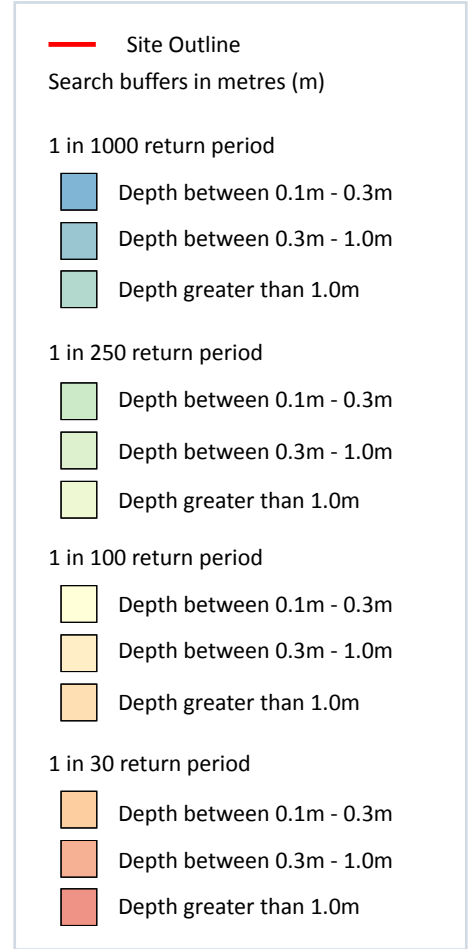
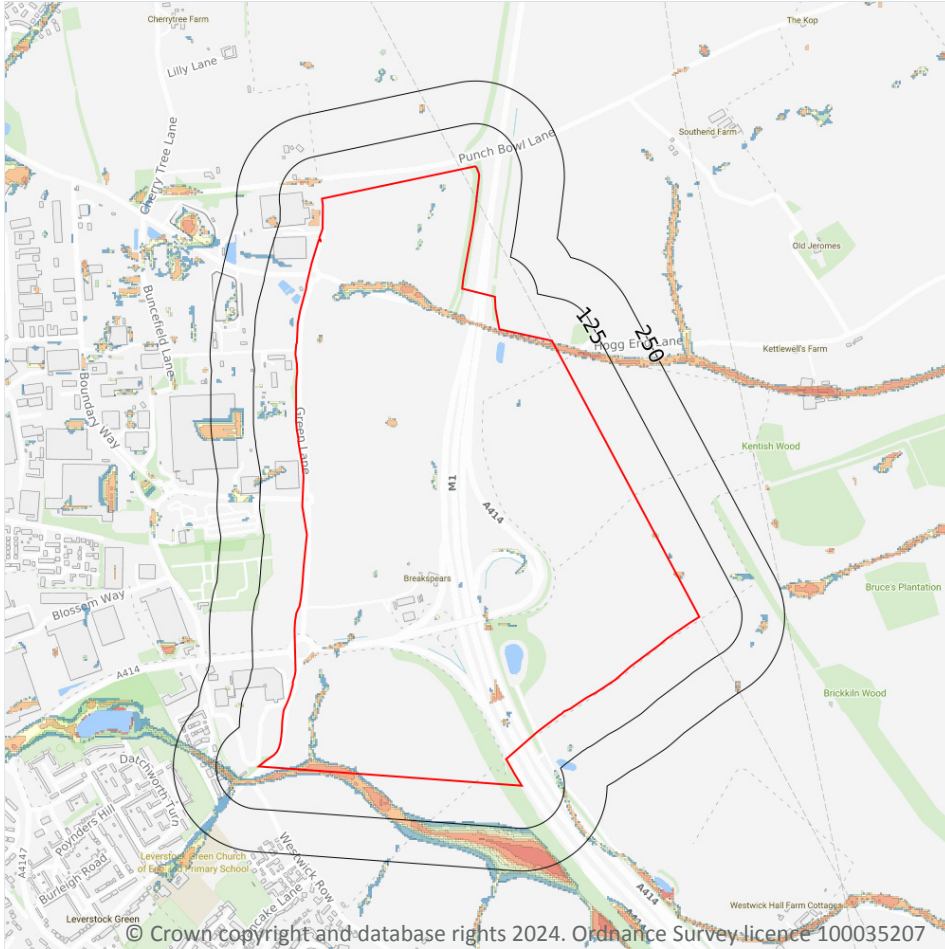
0

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

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, 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 73 >](#)

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	Between 0.3m and 1.0m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

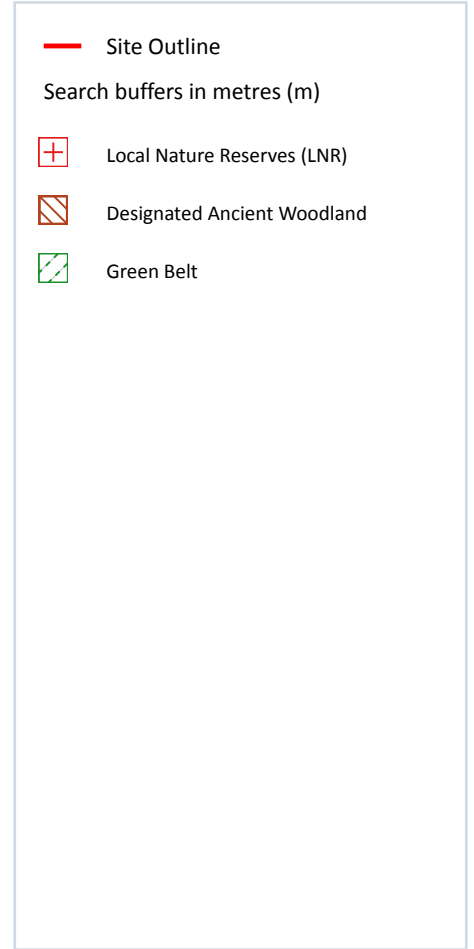
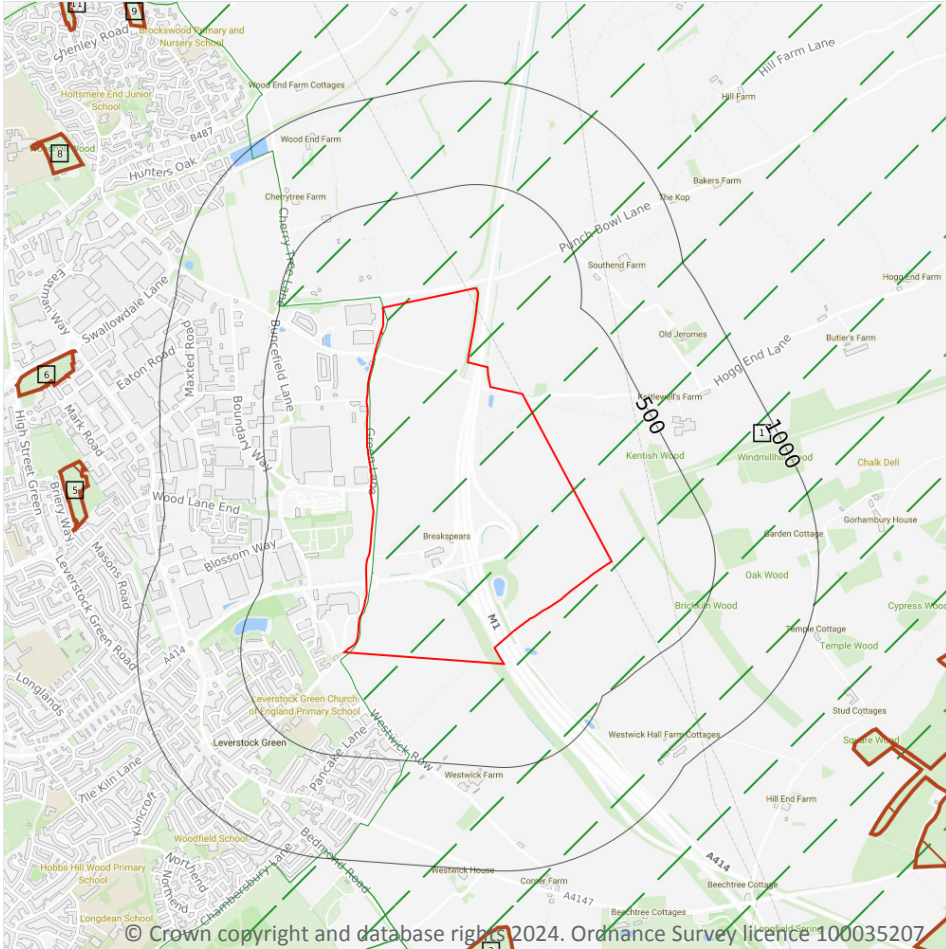
Low

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

Features are displayed on the Groundwater flooding map on [page 75 >](#)

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

8

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

Features are displayed on the Environmental designations map on [page 76 >](#)

ID	Location	Name	Woodland Type
3	1270m S	Blackwater Wood	Ancient & Semi-Natural Woodland
5	1361m W	Maylands Wood	Ancient & Semi-Natural Woodland
6	1423m W	Widmore Wood	Ancient & Semi-Natural Woodland
7	1467m SE	Prae Wood	Ancient Replanted Woodland
8	1607m NW	Unknown	Ancient & Semi-Natural Woodland
9	1779m NW	Unknown	Ancient & Semi-Natural Woodland
-	1865m W	Unknown	Ancient & Semi-Natural Woodland
11	1998m 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

3

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

Features are displayed on the Environmental designations map on [page 76 >](#)

ID	Location	Name	Local Authority name
1	On site	London	St Albans
2	960m S	London	Dacorum
4	1355m S	London	Three Rivers

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.



10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

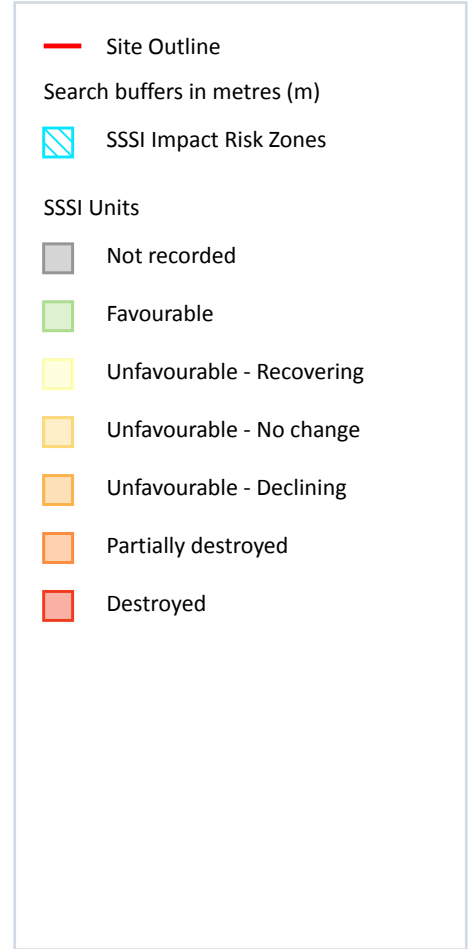
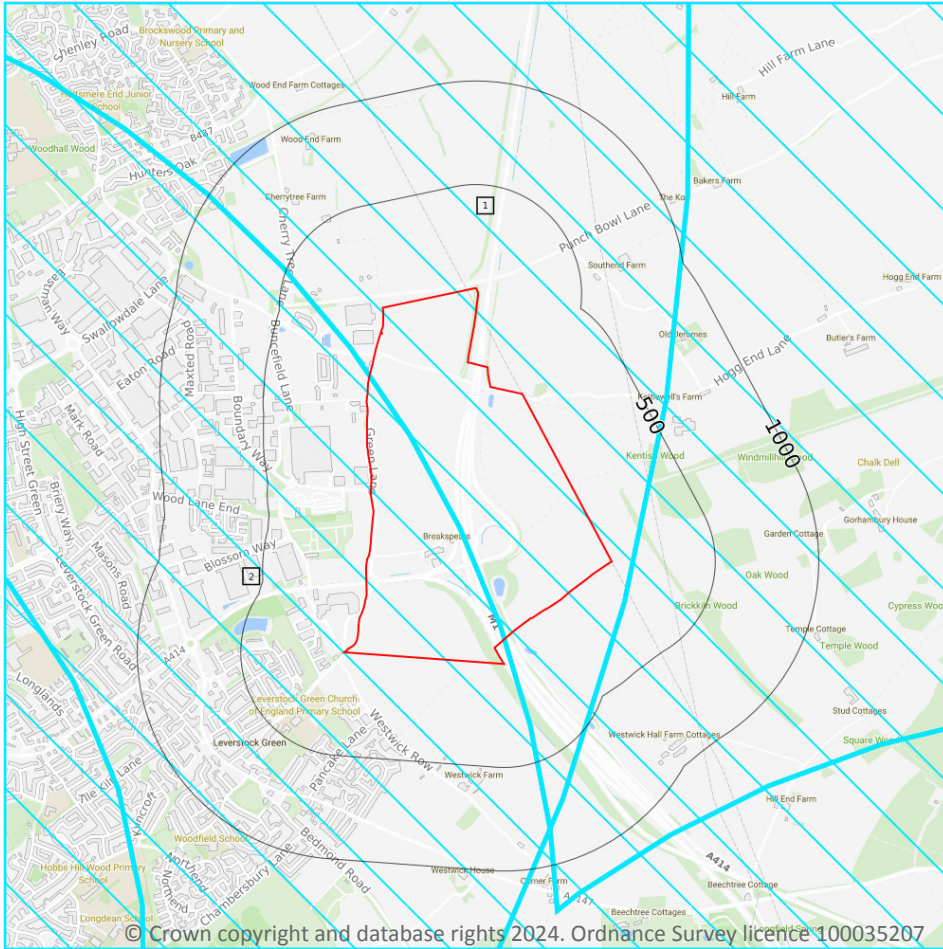
0

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

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



SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

2

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 81](#) >



ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Residential - Any residential developments with a total net gain in residential units.</p> <p>Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 4000m².</p> <p>Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p>
2	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Residential - Any residential developments with a total net gain in residential units.</p> <p>Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.</p> <p>Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

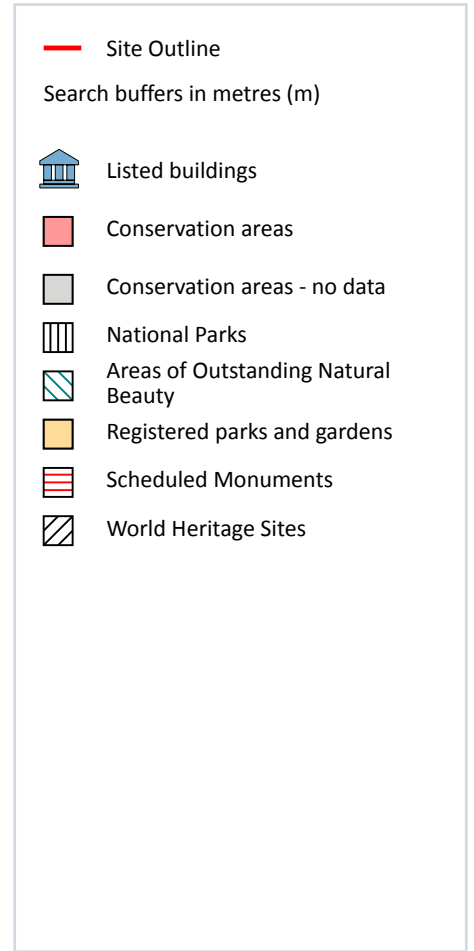
0

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

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



11 Visual and cultural designations



11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

1

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

Features are displayed on the Visual and cultural designations map on [page 83 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	On site	Breakspears	II	1175227	27/09/1984

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



11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

1

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.

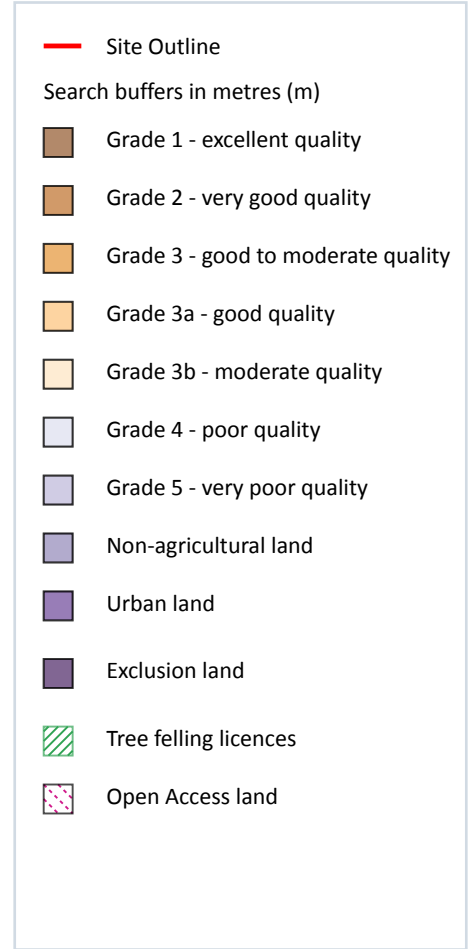
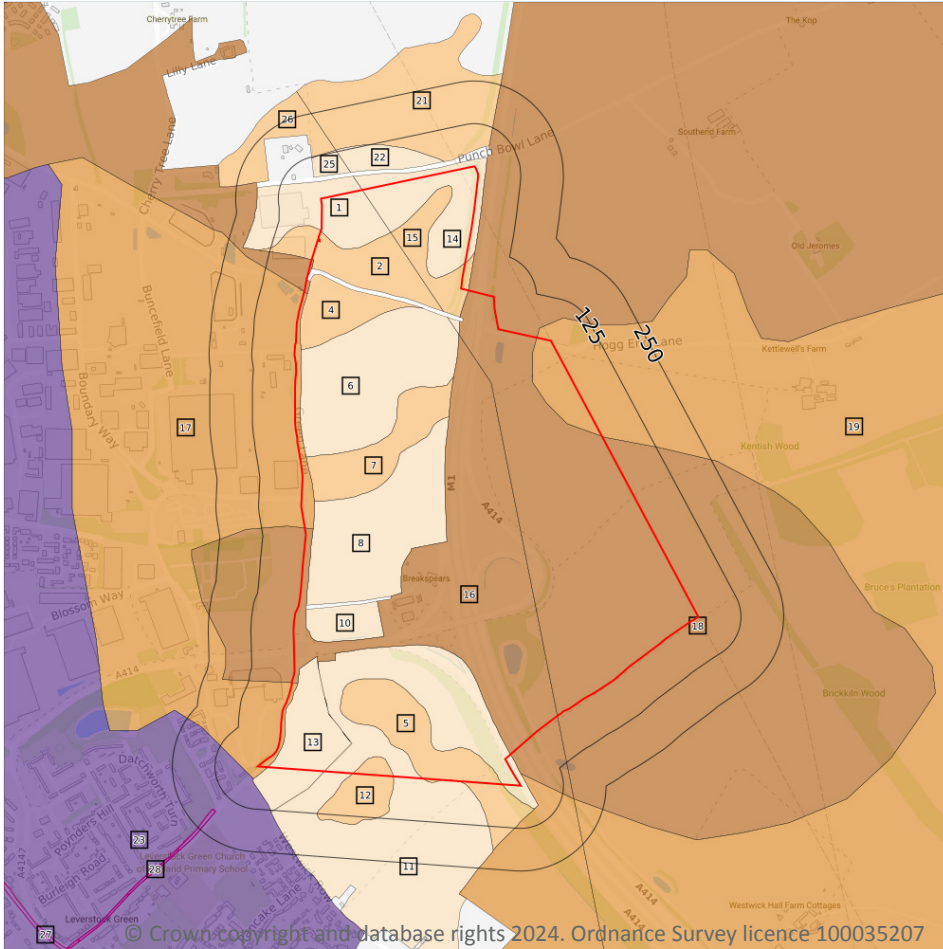
Features are displayed on the Visual and cultural designations map on [page 83](#) >

ID	Location	Name	Grade
2	185m E	Gorhambury	II

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



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

23

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 86](#) >

ID	Location	Classification	Description
1	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.

ID	Location	Classification	Description
2	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 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.
8	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.
10	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.
11	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.
12	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.
13	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.
14	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.
15	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.



ID	Location	Classification	Description
16	On site	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
17	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.
18	On site	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
19	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.
A	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.
21	31m N	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.
22	32m 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.
23	35m SW	Urban	-
25	57m 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.
26	122m N	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.

This data is sourced from Natural England.



12.2 Open Access Land

Records within 250m

2

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.

Features are displayed on the Agricultural designations map on [page 86](#) >

ID	Location	Name	Classification	Other relevant legislation
27	181m SW	Waste of the Manor	Section 4 Conclusive Registered Common Land	-
28	181m SW	Waste of the Manor	Section 15 Land	S.193 - Urban Borough District

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

1

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

Location	Reference	Scheme	Start Date	End date
216m E	AG00576591	Entry Level plus Higher Level Stewardship	01/12/2014	30/11/2024

This data is sourced from Natural England.



12.5 Countryside Stewardship Schemes

Records within 250m**1**

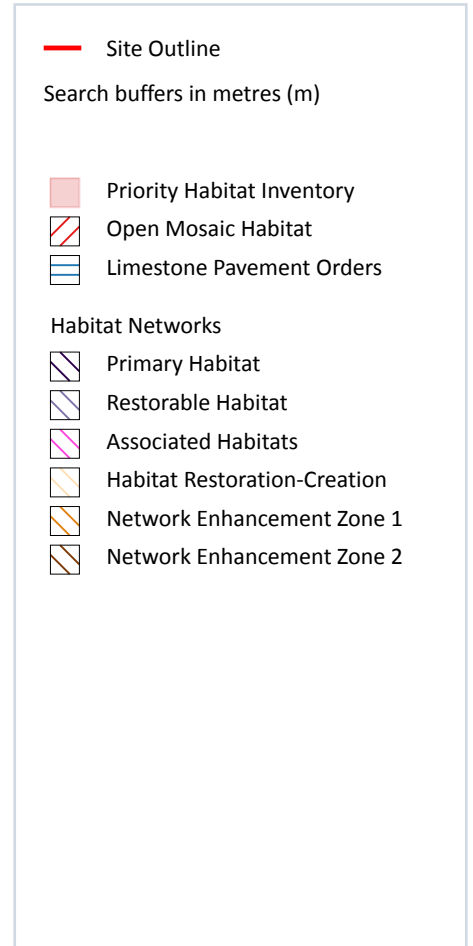
Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

Location	Reference	Scheme	Start Date	End Date
On site	1060087	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025

This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

2

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 91 >](#)

ID	Location	Main Habitat	Other habitats
1	161m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	185m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

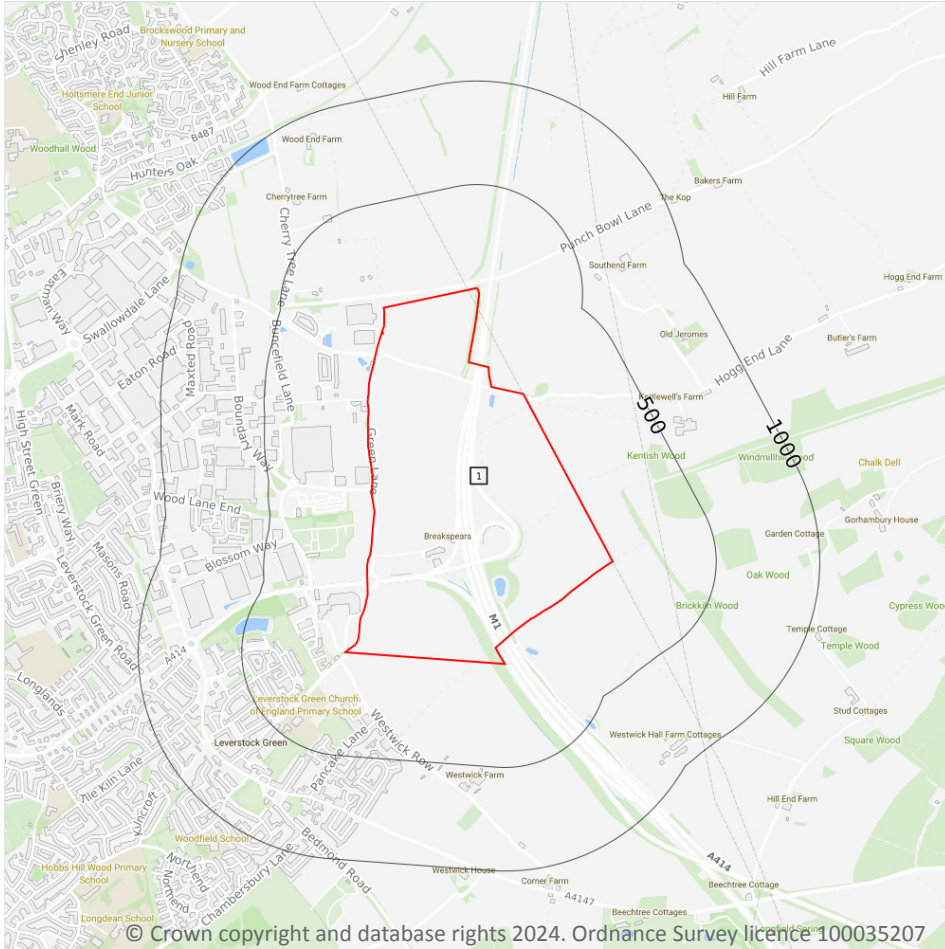
0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

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 93](#) >

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

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

0

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.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

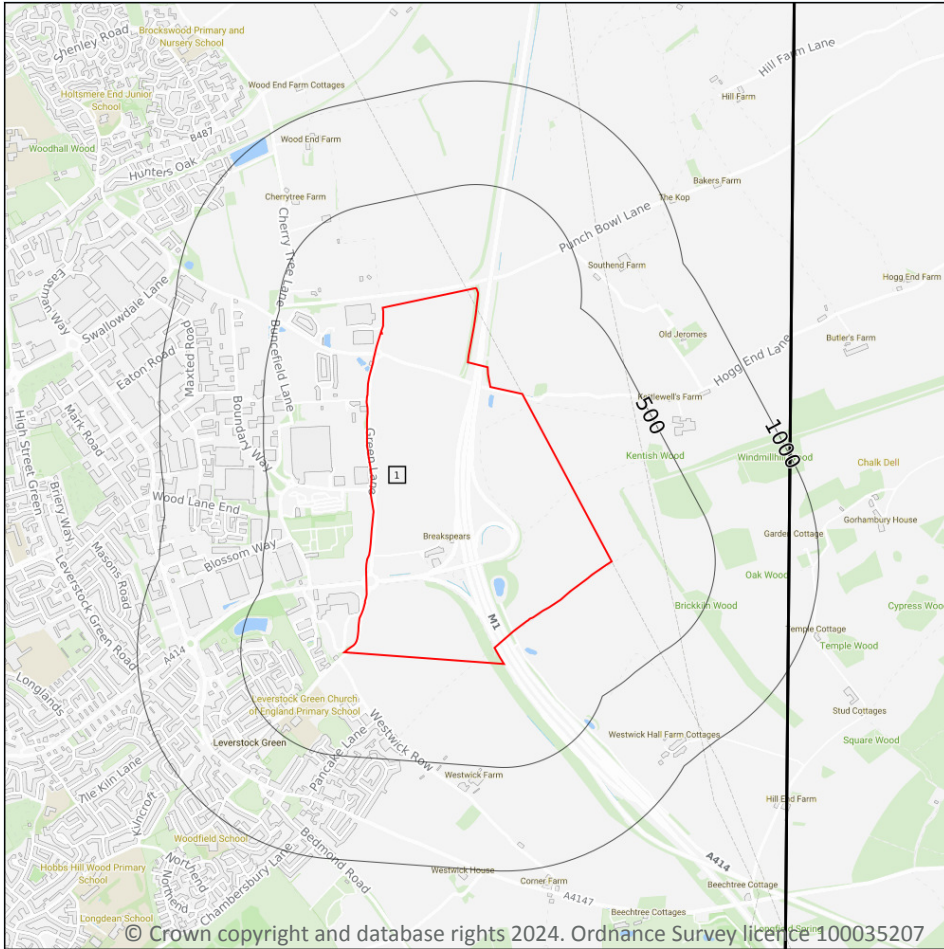
0

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)

○ 500

○ 1000

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 97](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW238_aylesbury_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

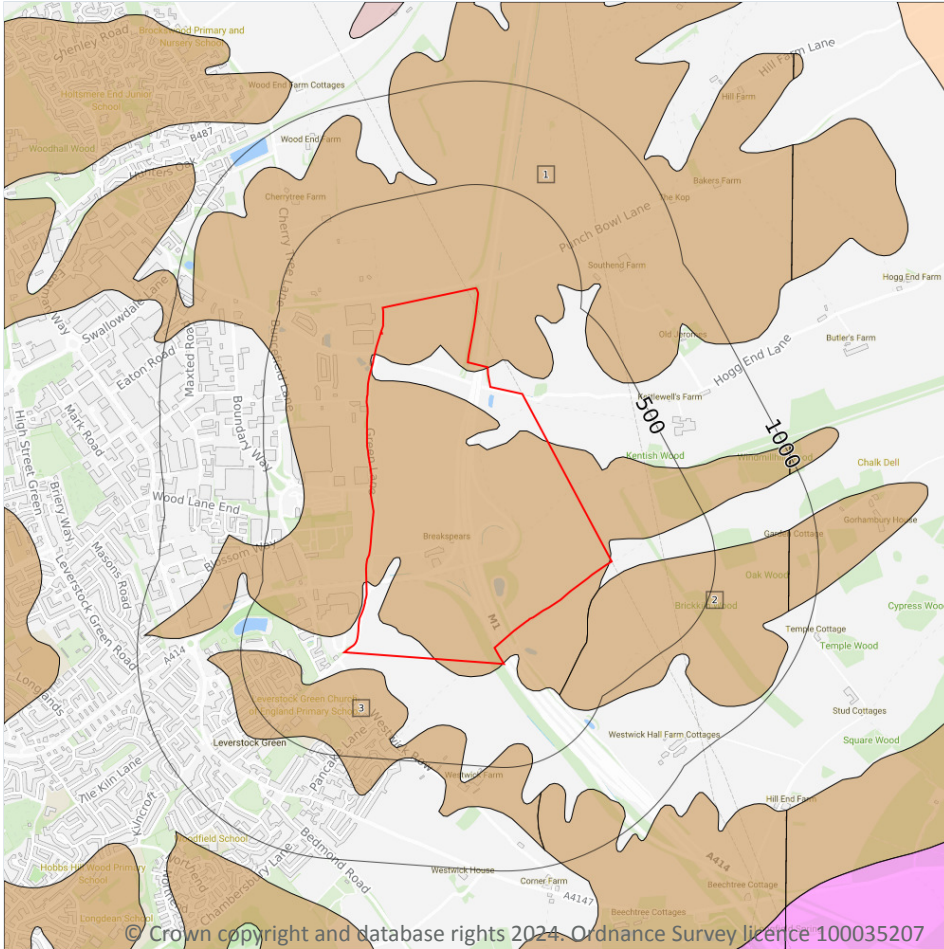
0

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

3

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 99](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	CWF-XCZSV	CLAY-WITH-FLINTS FORMATION	CLAY, SILT, SAND AND GRAVEL
2	69m SE	CWF-XCZSV	CLAY-WITH-FLINTS FORMATION	CLAY, SILT, SAND AND GRAVEL
3	73m SW	CWF-XCZSV	CLAY-WITH-FLINTS FORMATION	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 5 March 2024

15.5 Superficial permeability (50k)

Records within 50m

2

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

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

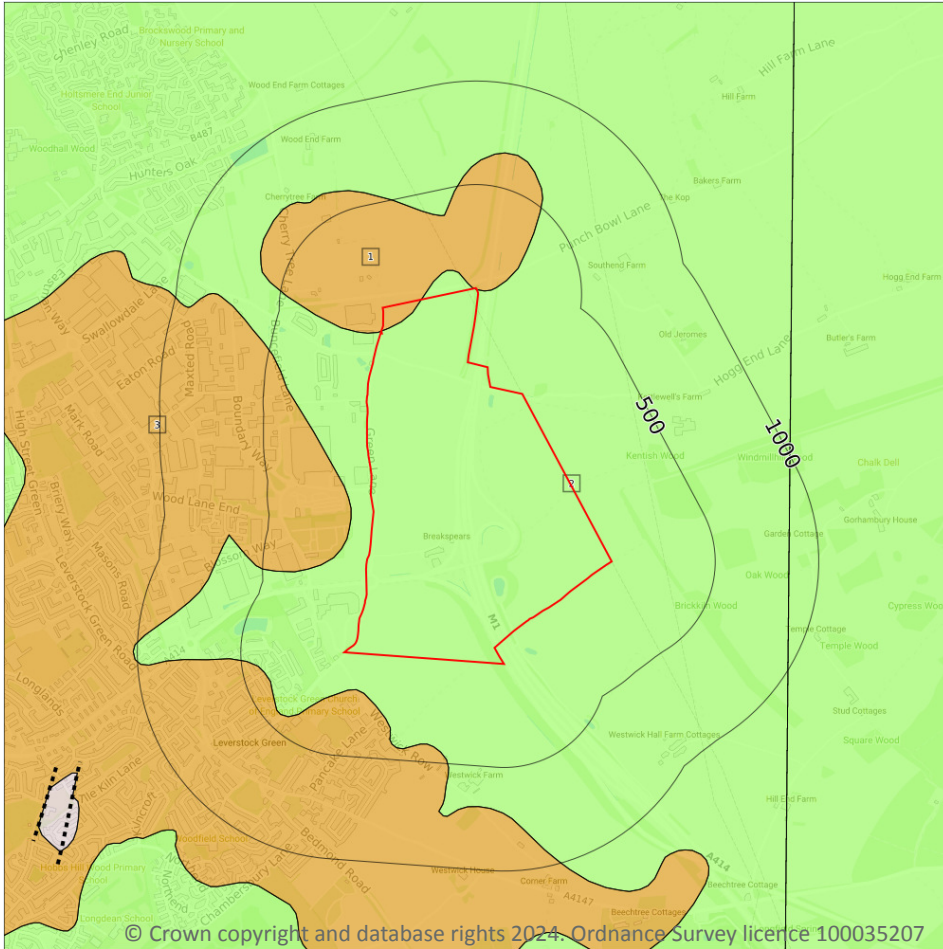
Records within 50m

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

3

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 101](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN
2	On site	LESE-CHLK	LEWES NODULAR CHALK FORMATION AND SEAFORD CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN
3	105m W	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN



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	Mixed	Moderate	Very Low
On site	Fracture	Very High	Very High
On site	Fracture	Very High	Very High

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

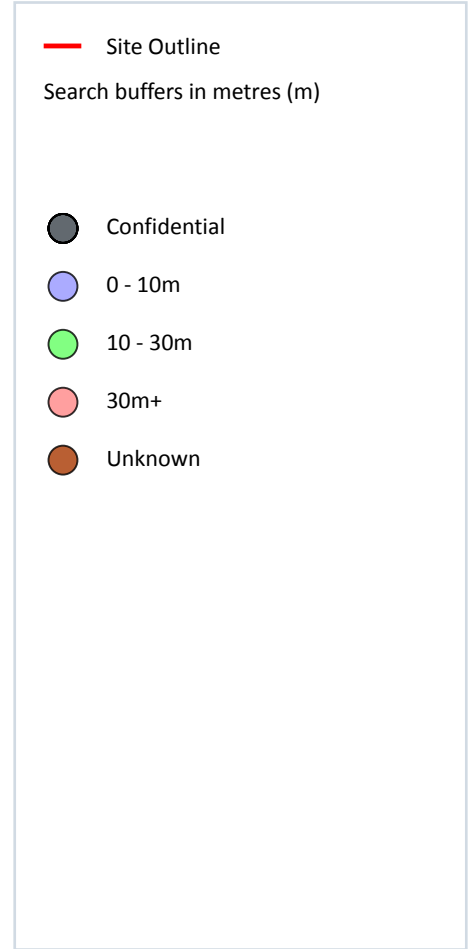
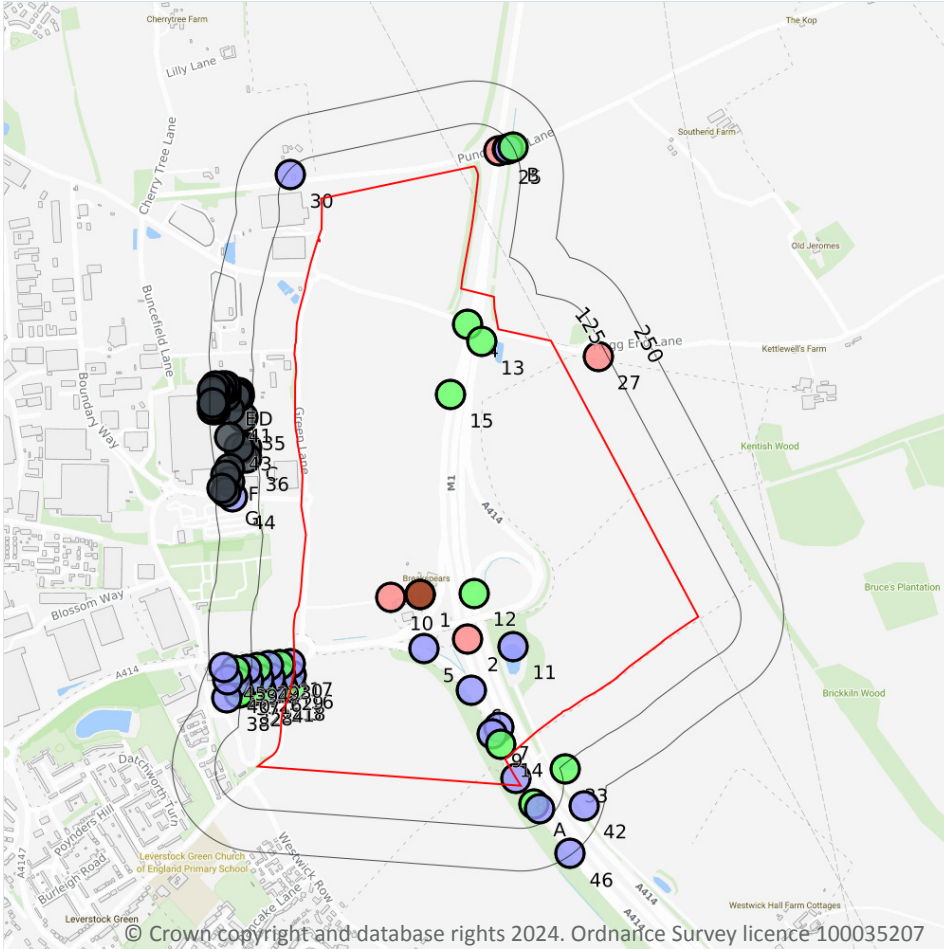
0

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



16.1 BGS Boreholes

Records within 250m

81

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

Features are displayed on the Boreholes map on [page 103](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	509260 207740	BREAKSPEARS FARM	-1.0	N	521055 ↗
2	On site	509400 207610	ST ALBANS BY-PASS 135 (M1)	33.38	N	520999 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
3	On site	508882 207468	BREAKSPEAR WAY HEMEL HEMPSTEAD 21	11.0	N	17864628 ↗
4	On site	509400 208530	ST ALBANS BY-PASS 134 (M1)	24.68	N	520998 ↗
5	On site	509270 207580	LONDON - YORKSHIRE M1 1	0.0	N	521017 ↗
6	On site	509410 207460	LONDON - YORKSHIRE M1 2	0.0	N	521018 ↗
7	On site	509490 207350	ST ALBANS BY-PASS 136 (M1)	4.87	N	521000 ↗
8	On site	509540 207200	LONDON - YORKSHIRE M1 4	0.0	N	521020 ↗
9	On site	509470 207330	LONDON - YORKSHIRE M1 3	2.0	N	521019 ↗
10	On site	509173 207732	BREAKSPEARS PGWU2057	56.0	N	18598263 ↗
11	On site	509533 207587	GROUND INVESTIGATION FOR M1 JUNCTION 6A TO 10 WIDENING 8	10.0	N	19413336 ↗
12	On site	509417 207743	GROUND INVESTIGATION FOR M1 JUNCTION 6A TO 10 WIDENING 9	15.45	N	19413337 ↗
13	On site	509440 208481	GROUND INVESTIGATION FOR M1 JUNCTION 6A TO 10 WIDENING 10	25.5	N	19413338 ↗
14	On site	509495 207300	GROUND INVESTIGATION FOR M1 JUNCTION 6A TO 10 WIDENING 37	15.45	N	19413343 ↗
15	On site	509349 208326	GROUND INVESTIGATION FOR M1 JUNCTION 6A TO 10 WIDENING 39	15.0	N	19413344 ↗
16	8m SW	508881 207502	BREAKSPEAR WAY HEMEL HEMPSTEAD 20	8.0	N	17864627 ↗
17	12m SW	508879 207537	BREAKSPEAR WAY HEMEL HEMPSTEAD 19	10.0	N	17864626 ↗
18	24m SW	508857 207467	BREAKSPEAR WAY HEMEL HEMPSTEAD 6	20.0	N	17864550 ↗
19	35m SW	508852 207499	BREAKSPEAR WAY HEMEL HEMPSTEAD 18	8.65	N	17864625 ↗
20	42m SW	508849 207534	BREAKSPEAR WAY HEMEL HEMPSTEAD 3	14.0	N	17864546 ↗
21	53m SW	508825 207462	BREAKSPEAR WAY HEMEL HEMPSTEAD 15	5.0	N	17864590 ↗
22	65m SW	508820 207496	BREAKSPEAR WAY HEMEL HEMPSTEAD 16	8.0	N	17864591 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	66m S	509594 207126	GROUND INVESTIGATION FOR M1 JUNCTION 6A TO 10 WIDENING 7	10.2	N	19413335 ↗
23	75m SW	508816 207530	BREAKSPEAR WAY HEMEL HEMPSTEAD 17	6.5	N	17864624 ↗
24	83m SW	508793 207459	BREAKSPEAR WAY HEMEL HEMPSTEAD 5	16.0	N	17864548 ↗
25	85m N	509490 209040	ST ALBANS BY-PASS 133 (M1)	32.91	N	520997 ↗
A	88m S	509610 207110	LONDON - YORKSHIRE M1 5	1.0	N	521021 ↗
26	96m SW	508788 207493	BREAKSPEAR WAY HEMEL HEMPSTEAD 14	8.5	N	17864589 ↗
27	100m NE	509781 208436	KETTLEWELLS FARM, PGWU2055	35.5	N	18598275 ↗
B	109m N	509516 209045	GROUND INVESTIGATION FOR M1 JUNCTION 6A TO 10 WIDENING 11A	10.0	N	19413340 ↗
28	109m SW	508761 207453	BREAKSPEAR WAY HEMEL HEMPSTEAD 8	22.5	N	17864552 ↗
29	109m SW	508782 207526	BREAKSPEAR WAY HEMEL HEMPSTEAD 2	11.45	N	17864545 ↗
B	112m N	509519 209046	GROUND INVESTIGATION FOR M1 JUNCTION 6A TO 10 WIDENING 11	1.35	N	19413339 ↗
30	114m NW	508880 208970	EATON LODGE REDBOURN	5.3	N	521001 ↗
B	124m N	509531 209050	M1 JUNCTION 6A TO 10 WIDENING 103	25.0	N	18347217 ↗
31	126m SW	508756 207486	BREAKSPEAR WAY HEMEL HEMPSTEAD 9	10.0	N	17864553 ↗
32	138m SW	508728 207450	BREAKSPEAR WAY HEMEL HEMPSTEAD 4	12.95	N	17864547 ↗
33	138m SE	509685 207227	GROUND INVESTIGATION FOR M1 JUNCTION 6A TO 10 WIDENING 36	27.0	N	19413342 ↗
34	139m SW	508750 207521	BREAKSPEAR WAY HEMEL HEMPSTEAD 10	8.5	N	17864585 ↗
C	151m W	508750 208170	BOUNDARY WAY HEMEL HEMPSTEAD TP6	-	Y	N/A
35	153m NW	508740 208260	BOUNDARY WAY HEMEL HEMPSTEAD TP2	-	Y	N/A
36	156m W	508750 208140	BOUNDARY WAY HEMEL HEMPSTEAD 5	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
37	156m SW	508723 207483	BREAKSPEAR WAY HEMEL HEMPSTEAD 7	7.1	N	17864551 ↗
D	163m NW	508730 208330	TEXACO BUNCEFIELD TERMINAL S25	-	Y	N/A
D	163m NW	508730 208320	TEXACO BUNCEFIELD TERMINAL S24	-	Y	N/A
D	163m NW	508730 208320	BOUNDARY WAY HEMEL HEMPSTEAD 1	-	Y	N/A
38	167m SW	508694 207437	BREAKSPEAR WAY HEMEL HEMPSTEAD 11	6.0	N	17864586 ↗
39	169m SW	508718 207518	BREAKSPEAR WAY HEMEL HEMPSTEAD 1	20.55	N	17864544 ↗
C	171m W	508730 208170	BOUNDARY WAY HEMEL HEMPSTEAD 105	-	Y	N/A
D	173m NW	508720 208330	TEXACO BUNCEFIELD TERMINAL S26	-	Y	N/A
D	173m NW	508720 208320	TEXACO BUNCEFIELD TERMINAL F	-	Y	N/A
40	184m SW	508695 207489	BREAKSPEAR WAY HEMEL HEMPSTEAD 12	9.5	N	17864587 ↗
41	193m NW	508700 208280	BOUNDARY WAY HEMEL HEMPSTEAD 102	-	Y	N/A
42	195m SE	509740 207120	LONDON - YORKSHIRE M1 BH19	0.0	N	521026 ↗
43	196m W	508700 208200	BOUNDARY WAY HEMEL HEMPSTEAD TP4	-	Y	N/A
44	201m W	508711 208026	BUNCEFIELD TERMINAL TP 04	3.0	N	17863669 ↗
E	203m NW	508690 208330	TEXACO BUNCEFIELD TERMINAL P	-	Y	N/A
E	203m NW	508690 208320	TEXACO BUNCEFIELD TERMINAL E	-	Y	N/A
E	203m NW	508690 208340	TEXACO BUNCEFIELD TERMINAL S1	-	Y	N/A
E	203m NW	508690 208350	TEXACO BUNCEFIELD TERMINAL 2	-	Y	N/A
45	204m SW	508684 207526	BREAKSPEAR WAY HEMEL HEMPSTEAD 13	6.5	N	17864588 ↗
F	210m W	508700 208110	BOUNDARY WAY HEMEL HEMPSTEAD TP8	-	Y	N/A
E	213m NW	508680 208340	TEXACO BUNCEFIELD TERMINAL S3	-	Y	N/A
E	213m NW	508680 208350	TEXACO BUNCEFIELD TERMINAL S4	-	Y	N/A
F	214m W	508700 208070	BOUNDARY WAY HEMEL HEMPSTEAD WS2	-	Y	N/A
F	223m W	508690 208090	BOUNDARY WAY HEMEL HEMPSTEAD WS3	-	Y	N/A
G	223m W	508690 208040	BOUNDARY WAY HEMEL HEMPSTEAD WS1	-	Y	N/A

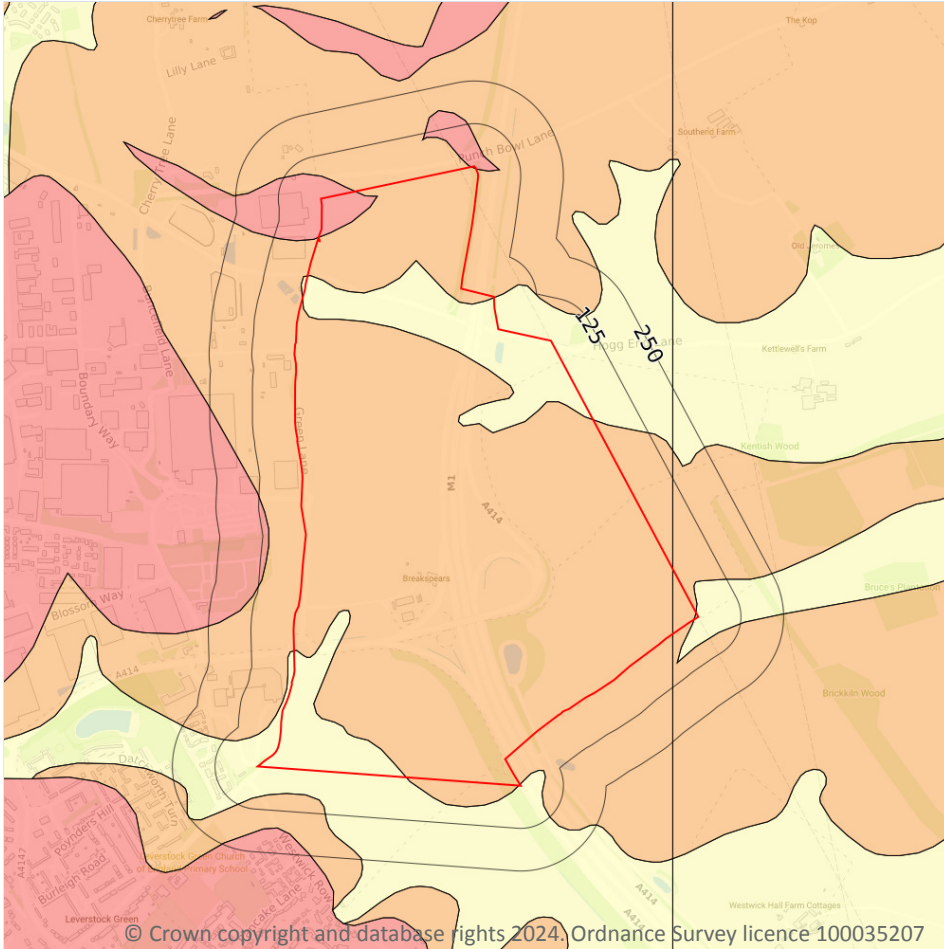


ID	Location	Grid reference	Name	Length	Confidential	Web link
E	223m NW	508670 208330	TEXACO BUNCEFIELD TERMINAL S6	-	Y	N/A
E	223m NW	508670 208340	TEXACO BUNCEFIELD TERMINAL S5	-	Y	N/A
E	233m NW	508660 208330	TEXACO BUNCEFIELD TERMINAL S8	-	Y	N/A
E	233m NW	508660 208280	TEXACO BUNCEFIELD TERMINAL S28	-	Y	N/A
E	233m NW	508660 208310	TEXACO BUNCEFIELD TERMINAL S9	-	Y	N/A
E	233m NW	508660 208350	TEXACO BUNCEFIELD TERMINAL T	-	Y	N/A
G	233m W	508680 208050	BOUNDARY WAY HEMEL HEMPSTEAD TP10	-	Y	N/A
E	243m NW	508650 208280	TEXACO BUNCEFIELD TERMINAL Q	-	Y	N/A
E	243m NW	508650 208330	TEXACO BUNCEFIELD TERMINAL U	-	Y	N/A
E	243m NW	508650 208340	TEXACO BUNCEFIELD TERMINAL S7	-	Y	N/A
E	243m NW	508650 208290	TEXACO BUNCEFIELD TERMINAL S11	-	Y	N/A
E	243m NW	508650 208300	TEXACO BUNCEFIELD TERMINAL S10	-	Y	N/A
E	243m NW	508650 208300	TEXACO BUNCEFIELD TERMINAL D	-	Y	N/A
46	246m S	509700 206980	LONDON - YORKSHIRE M1 6	0.0	N	521022 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

3

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 108 >](#)

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Low	Ground conditions predominantly medium plasticity.
On site	Moderate	Ground conditions predominantly high plasticity.



This data is sourced from the British Geological Survey.



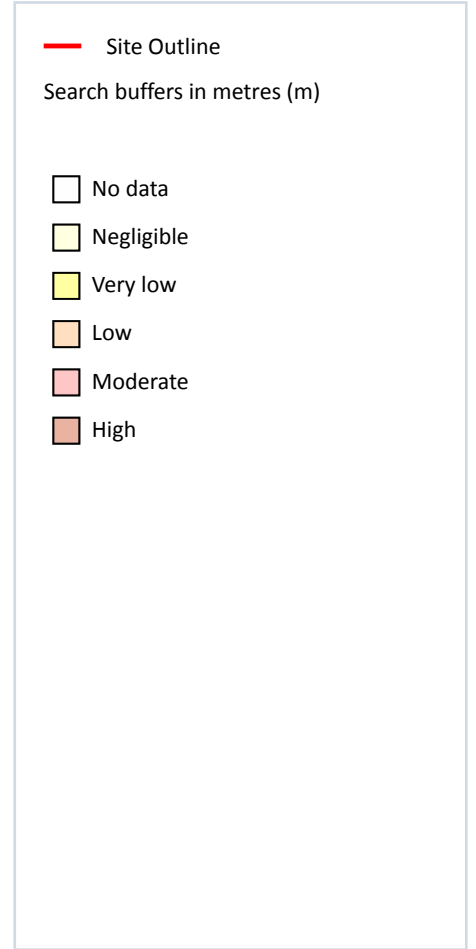
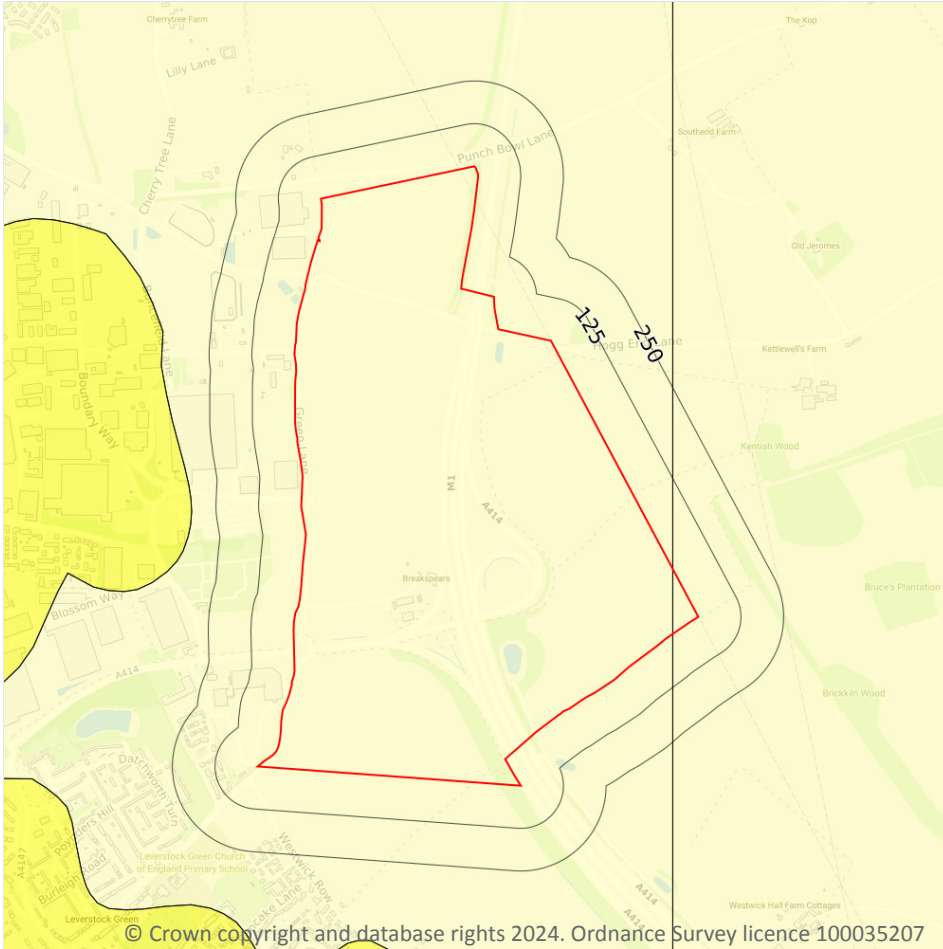
Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Date: 5 March 2024

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Running sands map on [page 110 >](#)

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

This data is sourced from the British Geological Survey.



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Date: 5 March 2024

Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

1

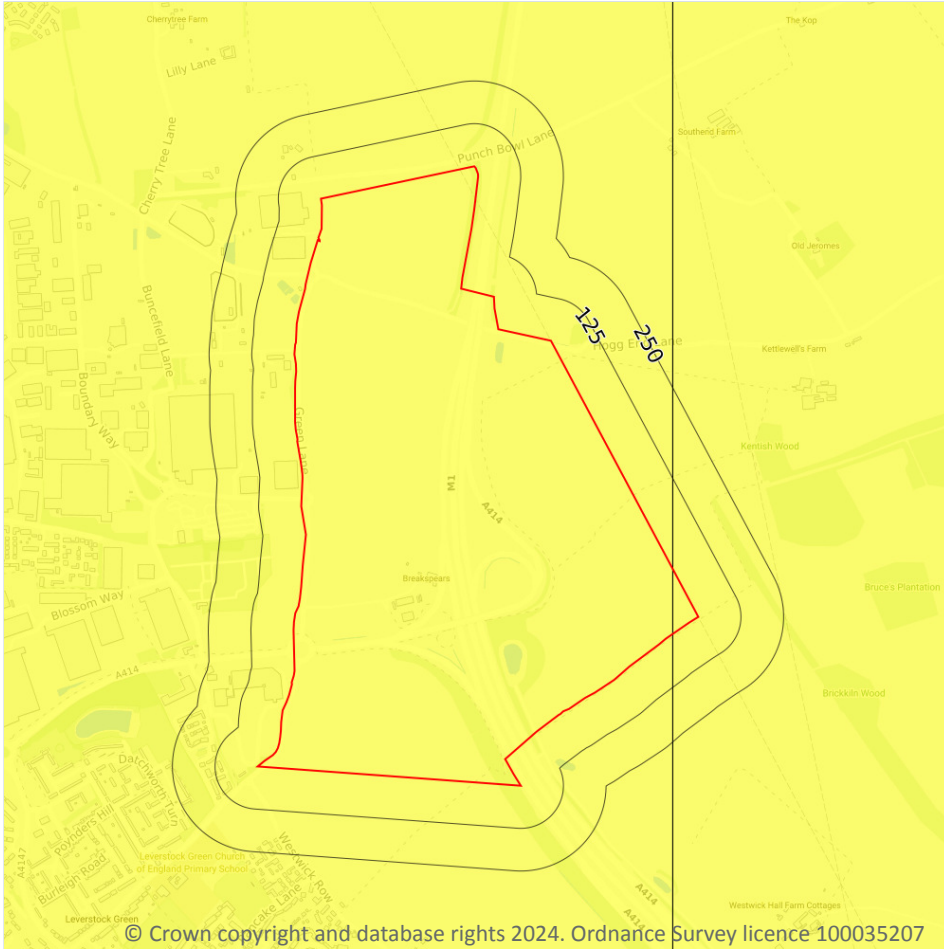
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 111](#) >

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

1

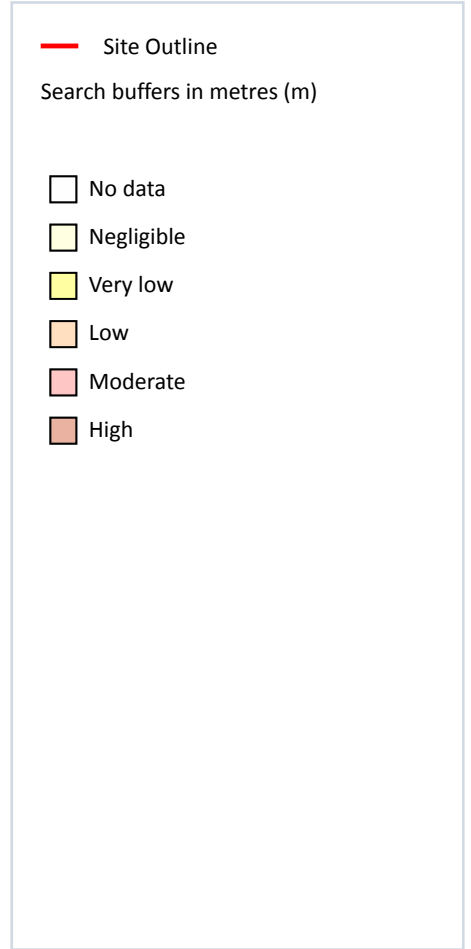
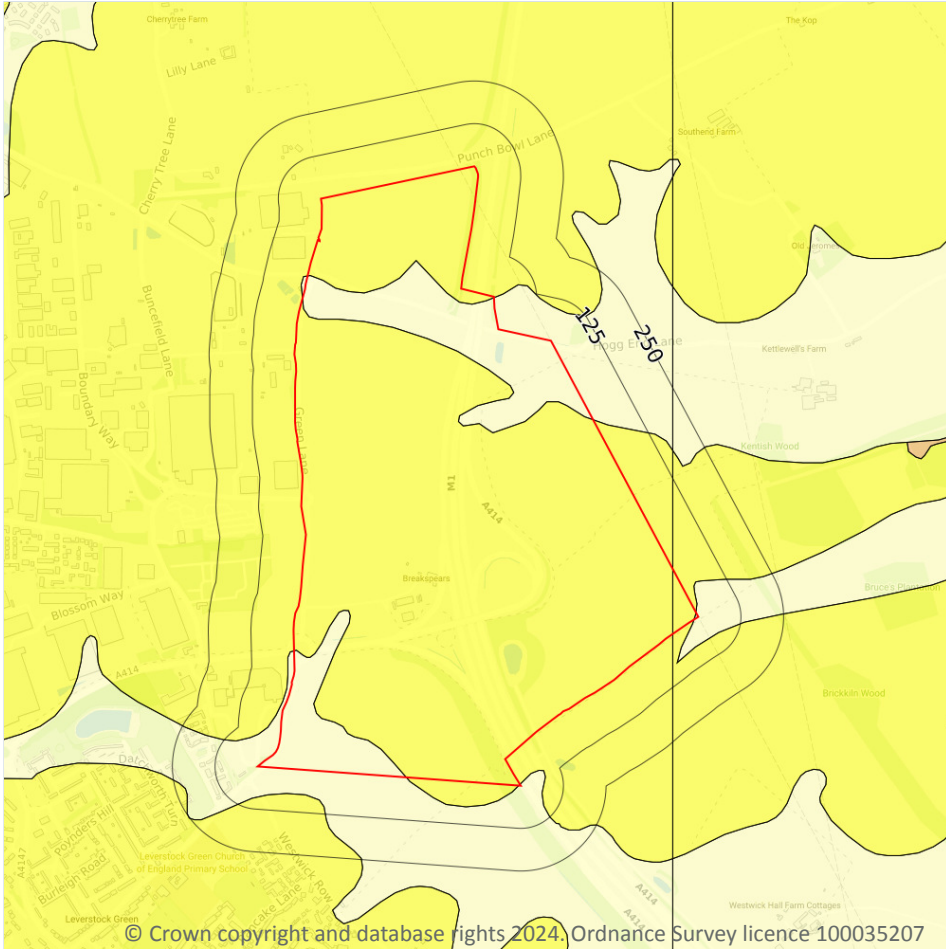
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 112 >](#)

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Landslides map on [page 113](#) >

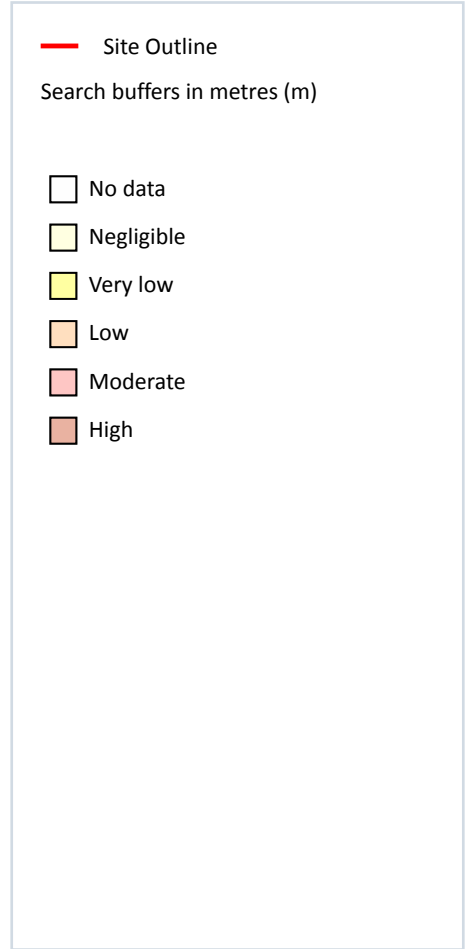
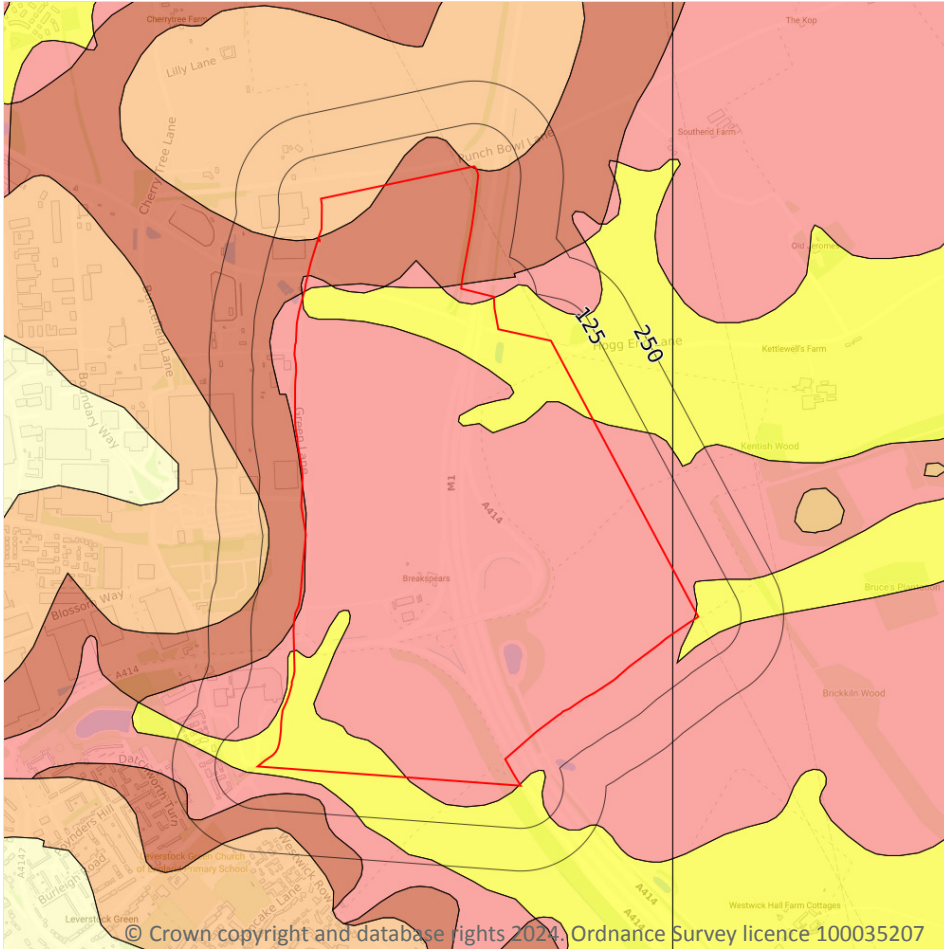
Location	Hazard rating	Details
On site	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

5

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 115](#) >

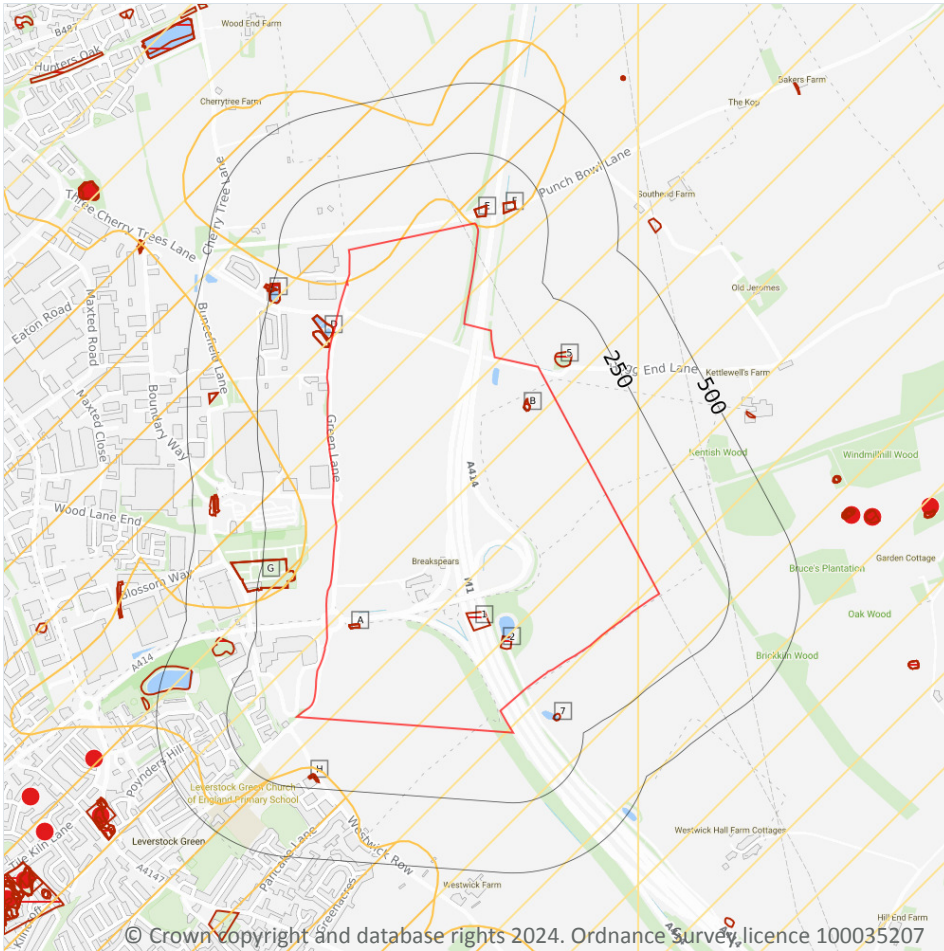
Location	Hazard rating	Details
On site	Very low	Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.

Location	Hazard rating	Details
On site	Low	Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.
On site	Moderate	Soluble rocks are present within the ground. Many dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for subsidence is at a level where it may need to be considered.
On site	High	Soluble rocks are present within the ground. Numerous dissolution features may be present. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered.
21m SW	Moderate	Soluble rocks are present within the ground. Many dissolution features may be present. Potential for difficult ground conditions are at a level where they should be considered. Potential for subsidence is at a level where it may need to be considered.

This data is sourced from the British Geological Survey.



18 Mining and ground workings



18.1 BritPits

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m
35

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 and ground workings map on [page 117](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Cuttings	1995	1:10000
2	On site	Cuttings	1995	1:10000
A	On site	Pond	1995	1:10000
A	On site	Pond	1991	1:10000
A	On site	Pond	1979	1:10000
B	On site	Pond	1897	1:10560
B	On site	Pond	1878	1:10560
D	3m NW	Ponds	1995	1:10000
D	3m NW	Ponds	1991	1:10000
D	3m NW	Ponds	1979	1:10000
D	5m NW	Unspecified Heap	1995	1:10000
D	5m NW	Unspecified Heap	1991	1:10000
D	5m NW	Unspecified Heap	1979	1:10000
E	25m N	Cuttings	1995	1:10000
E	25m N	Cuttings	1991	1:10000
E	25m N	Cuttings	1979	1:10000
5	64m NE	Unspecified Pits	1878	1:10560
F	107m N	Cuttings	1995	1:10000
F	107m N	Cuttings	1991	1:10000
F	107m N	Cuttings	1979	1:10000
G	125m SW	Burial Ground	1995	1:10000
G	125m SW	Burial Ground	1991	1:10000
G	125m SW	Burial Ground	1979	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
7	139m SE	Unspecified Pit	1878	1:10560
H	198m SW	Pond	1955	1:10560
H	202m SW	Pond	1878	1:10560
I	212m NW	Pond	1995	1:10000
I	212m NW	Pond	1991	1:10000
I	212m NW	Pond	1979	1:10000
I	232m NW	Pond	1923	1:10560
I	232m NW	Pond	1897	1:10560
I	232m NW	Pond	1878	1:10560
I	232m NW	Pond	1947	1:10560
I	232m NW	Pond	1938	1:10560
I	232m NW	Pond	1955	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 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.

18.4 Underground mining extents

Records within 500m

0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

4

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

Features are displayed on the Mining and ground workings map on [page 117 >](#)

ID	Location	Name	Commodity	Class	Likelihood
3	On site	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
4	On site	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
C	On site	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
6	105m W	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.



18.7 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m

0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.



18.11 BGS mine plans

Records within 500m

0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 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.

18.13 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.

18.14 Gypsum areas

Records on site

0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.



18.16 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).

