

ID	Location	Land use	Dates present	Group ID
B	18m N	Gas Works	1899 - 1912	200516
B	21m N	Gas Works	1972	196890
C	46m NE	Gasholders	1972	191593
B	47m NW	Gasholder	1972	191676
B	57m NW	Electricity Substation	1972	211102
B	57m NW	Electricity Substation	1983	210431
B	87m N	Gasometer	1899 - 1912	200461
B	98m N	Gasometer	1912	191476
B	99m N	Gasometer	1912	191477
B	113m NE	Gas Holder	1983 - 1992	210182
B	114m NE	Gasholder	1972	191677
H	121m E	Electricity Substation	1972	198201
H	125m E	Electricity Substation	1983 - 1992	206752
F	126m SW	Electricity Substation	1993 - 1996	202683
E	127m NW	Electricity Substation	1972 - 1992	204474
F	130m SW	Electricity Substation	1980 - 1986	203121
E	152m W	Electricity Substation	1983 - 1992	201507
E	187m W	Electricity Substation	1997	192638
E	187m W	Electricity Substation	1997	194286
5	190m NW	Electricity Substation	1989 - 1992	208104
E	196m W	Electricity Substation	1956	192338
E	196m W	Electricity Substation	1973	194971
E	197m W	Electricity Substation	1956	192296
E	197m W	Electricity Substation	1988	192904
E	197m W	Electricity Substation	1990	193473
A	209m W	Electricity Substation	1956 - 1973	205531
A	209m W	Electricity Substation	1956	209087
K	219m W	Gas Works	1900 - 1912	195994



ID	Location	Land use	Dates present	Group ID
K	220m W	Gas Works	1879	203854
K	236m W	Gasometer	1879	191478
7	263m SE	Electricity Substation	1980 - 1996	200884
L	267m SE	Electricity Substation	1993 - 1996	196503
L	269m SE	Electricity Substation	1980 - 1986	212354
K	276m W	Gasometer	1879	196025
K	278m W	Gasometer	1879 - 1931	195707
M	283m NW	Electricity Substation	1956 - 1997	208143
M	288m NW	Electricity Substation	1956	201342
N	290m S	Electricity Substation	1956 - 1993	209162
K	297m W	Gasometer	1879	196452
P	299m NE	Gas Works	1974	192083
N	301m S	Electricity Substation	1996	189780
Q	306m SW	Electricity Substation	1989	194324
Q	316m SW	Electricity Substation	1971	192383
Q	316m SW	Electricity Substation	1991	193682
G	317m W	Electricity Substation	1988 - 1997	204529
10	360m S	Electricity Substation	1986 - 1996	211867
T	375m SE	Electricity Substation	1989	204111
T	375m SE	Electricity Substation	1993	201266
R	379m NW	Electricity Substation	1992	198922
P	436m NE	Gas Holders	1982	192063
13	437m W	Electricity Substation	1971	189779
P	437m NE	Gas Holders	-	187510
P	437m NE	Gasholders	1974	191591
W	443m W	Electricity Substations	1991	191566
15	452m NW	Electricity Substation	1973 - 1997	210780
W	453m W	Electricity Substation	1956	192295



ID	Location	Land use	Dates present	Group ID
W	454m W	Electricity Substation	1956	193212
W	456m W	Electricity Substation	1971	192382
W	458m W	Electricity Substation	1989	193409
X	480m S	Electricity Substation	1980 - 1986	202973
X	482m S	Electricity Substation	1986 - 1996	203327
Y	485m W	Electricity Substation	1989	212340
Z	490m E	Electricity Substation	1974 - 1982	196282
Z	491m E	Electricity Substation	-	187610
Y	498m W	Electricity Substation	1956 - 1971	209152

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

4

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
J	188m S	Garage	1966	62359
J	188m S	Garage	1980 - 1986	65409



ID	Location	Land use	Dates present	Group ID
J	189m S	Garage	1993 - 1996	64171
J	201m S	Garage	1986	61047

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

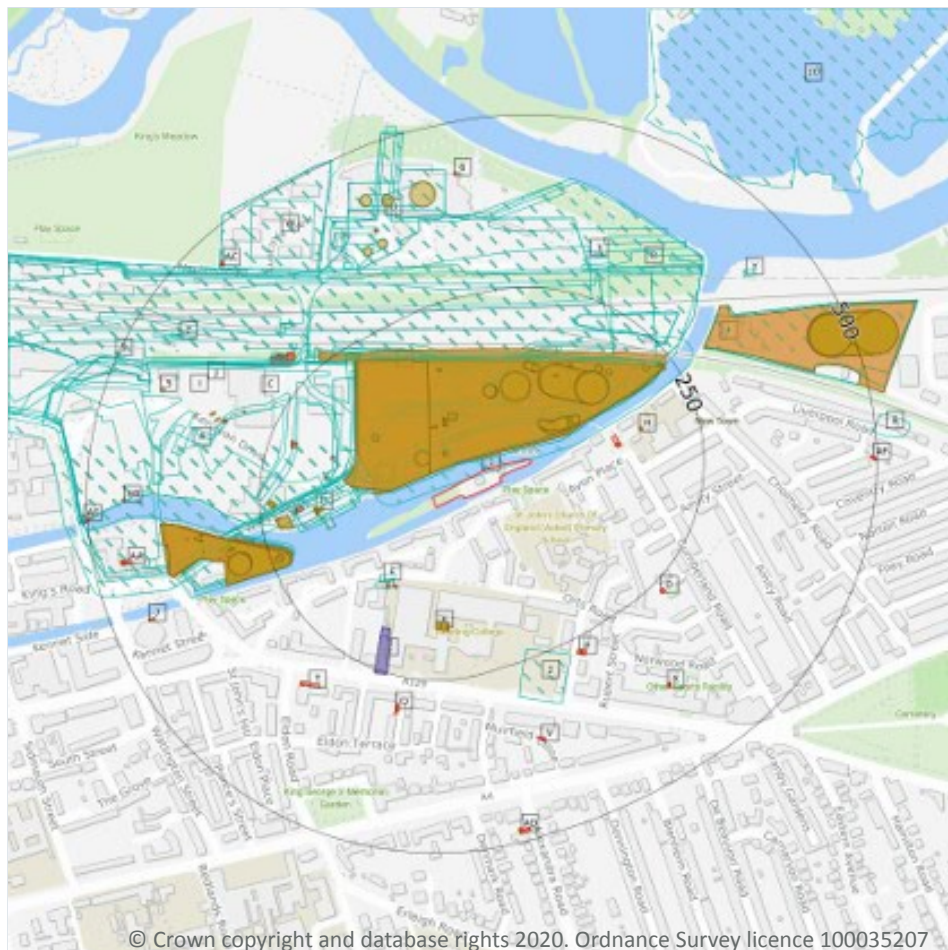
0

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

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



2 Past land use - un-grouped



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

2.1 Historical industrial land uses

Records within 500m

168

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 28**

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Factory	1962	1919036
1	1m NW	Boat House	1913	1867415
B	14m N	Gas Works	1913	1892589

ID	Location	Land Use	Date	Group ID
B	14m N	Gas Works	1898	1968655
B	19m N	Unspecified Commercial/Industrial	1938	1907284
B	20m N	Unspecified Commercial/Industrial	1938	1898223
B	22m N	Gas Works	1977	1894341
B	22m N	Unspecified Commercial/Industrial	1971	1947953
B	23m N	Unspecified Commercial/Industrial	1933	1948830
C	27m N	Railway Sidings	1938	1908472
B	42m NW	Unspecified Tank	1938	1948365
B	43m NW	Unspecified Tanks	1977	1913169
B	45m NE	Unspecified Tank	1898	1967484
B	45m NE	Unspecified Tanks	1962	1885417
B	46m NW	Unspecified Tanks	1913	1937199
B	47m NW	Unspecified Tank	1938	1938792
B	47m NW	Gas Holder	1977	1870489
B	47m NW	Unspecified Tank	1971	1858417
B	48m NE	Gas Holders	1977	1860842
B	48m NE	Unspecified Tanks	1971	1892919
B	50m NW	Unspecified Tank	1933	1912001
B	52m NW	Unspecified Tanks	1977	1870955
B	52m N	Unspecified Tank	1938	1922498
B	52m N	Unspecified Tank	1913	1886219
B	53m N	Railway Sidings	1898	1918530
C	53m N	Railway Sidings	1962	1908472
B	54m N	Unspecified Tanks	1938	1911871
B	54m NE	Unspecified Tanks	1938	1960556
C	56m N	Railway Sidings	1938	1908472
E	56m W	Sewage Pumping Station	1938	1884774
B	58m N	Unspecified Tanks	1933	1911871



ID	Location	Land Use	Date	Group ID
B	60m N	Railway Sidings	1913	1908877
B	65m N	Railway Sidings	1933	1965219
E	70m W	Gas Holders	1977	1860840
B	73m NW	Unspecified Tanks	1977	1870954
B	81m N	Gasometer	1938	1909370
B	81m N	Gasometer	1913	1886345
B	81m N	Gasometer	1898	1915590
B	81m N	Unspecified Tank	1938	1886218
B	82m NW	Unspecified Tanks	1913	1870953
B	83m N	Unspecified Depot	1994	1956931
B	83m N	Unspecified Depot	1989	1956931
B	87m N	Unspecified Tanks	1938	1942445
B	87m N	Unspecified Heap	1933	1869774
B	96m N	Unspecified Tank	1933	1886218
B	98m NE	Unspecified Commercial/Industrial	1994	1918336
B	98m NE	Unspecified Commercial/Industrial	1989	1918336
B	100m N	Unspecified Tank	1962	1922023
B	100m N	Unspecified Tank	1971	1922023
B	100m N	Gasometer	1913	1861039
B	100m N	Unspecified Tank	1938	1858406
B	101m N	Gasometer	1913	1861040
B	101m N	Unspecified Tank	1938	1893643
B	103m N	Unspecified Tanks	1962	1938724
D	104m W	Corporation Sewage Pumping Station	1933	1864601
D	105m W	Sewage Pumping Station	1938	1933880
D	105m W	Sewage Pumping Station	1913	1944172
B	105m N	Unspecified Tank	1933	1920538
B	107m N	Unspecified Tanks	1933	1894871



ID	Location	Land Use	Date	Group ID
D	110m W	Sewage Pumping Station	1898	1895148
D	112m NW	Unspecified Tank	1938	1929900
B	113m NE	Unspecified Tank	1938	1951439
F	114m SW	Smithy	1913	1898546
D	115m NW	Unspecified Tank	1938	1897084
D	118m NW	Unspecified Tank	1933	1897084
G	119m NW	Biscuit Factory	1933	1889569
G	119m NW	Biscuit Factory	1938	1914504
G	119m W	Biscuit Factory	1913	1922144
B	120m NE	Gas Holder	1994	1938111
B	120m NE	Gas Holder	1989	1938111
B	120m NE	Gas Holders	1977	1860844
B	120m NE	Unspecified Tank	1971	1958859
G	120m NW	Biscuit Factory	1938	1897832
C	120m N	Railway Sidings	1977	1908472
C	120m N	Railway Sidings	1971	1908472
F	122m SW	Smithy	1898	1956268
I	124m W	Railway Sidings	1913	1955038
J	126m W	Railway Sidings	1933	1908472
B	127m N	Gas Holders	1977	1860841
B	127m N	Unspecified Tank	1971	1901702
B	130m N	Unspecified Tank	1938	1924677
B	131m N	Unspecified Tank	1938	1926372
B	131m N	Unspecified Tank	1913	1938044
G	133m W	Biscuit Factory	1898	1887795
I	133m W	Railway Sidings	1898	1955038
B	138m N	Unspecified Tanks	1933	1920046
G	145m W	Unspecified Factory	1977	1934757



ID	Location	Land Use	Date	Group ID
G	145m W	Unspecified Factory	1971	1890191
C	149m N	Railway Sidings	1994	1913684
C	149m N	Railway Sidings	1989	1913684
B	158m NE	Unspecified Tank	1913	1933633
B	158m NE	Unspecified Tank	1898	1885299
B	161m NE	Unspecified Tank	1938	1899216
B	166m NE	Gas Holders	1977	1860845
B	166m NE	Unspecified Tank	1971	1858407
B	177m NE	Unspecified Tank	1938	1858408
B	185m N	Railway Building	1938	1889076
B	185m N	Railway Building	1913	1906753
B	207m N	Unspecified Pit	1971	1962767
B	208m N	Unspecified Pit	1989	1921856
B	208m N	Unspecified Pit	1977	1915664
B	208m N	Unspecified Pit	1962	1957357
B	210m NE	Unspecified Tank	1994	1927966
B	210m NE	Unspecified Tank	1989	1927966
B	210m NE	Gas Holders	1977	1860843
B	210m NE	Unspecified Tank	1971	1886635
N	214m W	Unspecified Commercial/Industrial	1933	1964061
N	216m W	Unspecified Commercial/Industrial	1938	1964061
N	217m W	Gas Works	1913	1939467
N	223m W	Gas Works	1898	1931018
2	235m S	Nursery	1898	1867822
B	245m NE	Railway Building	1938	1897139
B	245m NE	Railway Building	1913	1927860
N	268m W	Unspecified Tank	1933	1909996
N	268m W	Unspecified Tank	1938	1957467



ID	Location	Land Use	Date	Group ID
N	277m W	Gasometer	1913	1947344
N	277m W	Gasometer	1898	1946414
N	277m W	Unspecified Tank	1938	1909996
J	291m NW	Railway Building	1989	1942051
J	291m NW	Railway Building	1977	1934837
J	291m NW	Railway Building	1971	1915773
J	292m NW	Railway Building	1898	1866735
R	294m N	Railway Buildings	1938	1856208
S	298m NE	Unspecified Commercial/Industrial	1994	1954609
S	298m NE	Unspecified Commercial/Industrial	1989	1954609
N	301m W	Sawmills	1913	1853545
S	301m NE	Gas Works	1977	1862702
S	301m NE	Unspecified Works	1962	1925288
S	301m NE	Unspecified Works	1971	1925288
3	305m N	Railway Building	1938	1866805
J	320m NW	Railway Building	1898	1946137
J	320m NW	Railway Building	1938	1914517
J	320m NW	Railway Building	1913	1923356
4	327m NE	Unspecified Tank	1971	1858395
U	341m NW	Unspecified Depot	1977	1918377
U	341m NW	Unspecified Depot	1971	1948967
U	347m NW	Railway Building	1989	1894242
U	347m NW	Railway Building	1977	1886802
R	352m NE	Railway Sidings	1933	1912548
U	352m NW	Unspecified Tank	1971	1858405
U	352m NW	Unspecified Tank	1971	1858404
U	353m NW	Unspecified Tanks	1977	1870952
W	369m NW	Unspecified Warehouse	1989	1893515



ID	Location	Land Use	Date	Group ID
W	369m NW	Unspecified Warehouse	1977	1940849
W	369m NW	Unspecified Warehouse	1971	1894866
U	376m NW	Railway Building	1938	1931535
U	380m NW	Railway Building	1933	1931535
W	388m NW	Unspecified Warehouse	1994	1918641
U	389m N	Unspecified Tank	1971	1858400
U	390m N	Unspecified Tanks	1977	1870951
U	407m N	Unspecified Tank	1971	1858402
Y	408m NE	Railway Building	1977	1941914
Y	408m NE	Railway Building	1962	1944190
Y	408m NE	Railway Building	1971	1944190
Z	415m NW	Railway Buildings	1913	1951812
U	418m NW	Unspecified Tank	1971	1858403
Z	428m NW	Railway Buildings	1938	1894910
S	439m NE	Gas Holders	1994	1890082
S	439m NE	Gas Holders	1989	1890082
S	439m NE	Gas Holders	1977	1897508
S	439m NE	Unspecified Tanks	1962	1893085
S	439m NE	Unspecified Tanks	1971	1893085
S	444m NE	Unspecified Tank	1938	1959367
S	444m E	Unspecified Tank	1938	1899000
S	446m NE	Unspecified Tank	1933	1959367
8	497m E	Gravel Pit	1898	1871690
9	497m NW	Railway Building	1913	1866733
10	500m NE	Gravel Pit	1977	1921128

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

153

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 28**

ID	Location	Land Use	Date	Group ID
B	18m N	Gas Works	1899	312771
B	18m N	Gas Works	1912	312771
B	21m N	Gas Works	1972	323192
D	32m NW	Gas Works	1900	312771
D	32m NW	Gas Works	1912	312771
B	45m NW	Unspecified Tank	1899	323774
B	45m NW	Unspecified Tank	1912	323774
B	45m NW	Unspecified Tank	1932	323774
B	46m NE	Gasholders	1972	309354
B	46m NE	Tanks	1956	316259
B	46m NE	Tanks	1956	322300
B	47m NW	Gasholder	1972	309447
B	48m N	Unspecified Tank	1899	306285
B	50m N	Tanks	1912	325183
B	50m N	Tanks	1932	322300
B	81m NW	Tanks	1899	327789
B	82m NE	Unspecified Tank	1956	306286
B	83m NW	Tanks	1912	314374
B	83m NW	Tanks	1932	314374
B	84m NW	Tanks	1972	324930
B	84m NW	Tanks	1983	324930
B	84m NW	Tanks	1983	324930
B	86m NW	Unspecified Tank	1983	305882



ID	Location	Land Use	Date	Group ID
B	87m N	Gasometer	1899	316115
B	87m N	Gasometer	1912	316115
B	87m N	Unspecified Tank	1932	306284
B	92m NW	Unspecified Tank	1983	305880
B	97m N	Tanks	1956	318887
B	98m N	Gasometer	1912	309112
B	98m N	Tanks	1956	315809
B	98m N	Tanks	1932	322690
B	98m N	Unspecified Tank	1956	325259
B	99m N	Unspecified Tank	1956	324560
B	99m N	Gasometer	1912	309113
B	99m N	Unspecified Tank	1932	322375
B	113m NE	Gas Holder	1983	323079
B	113m NE	Gas Holder	1983	323079
B	113m NE	Gas Holder	1989	323079
B	113m NE	Gas Holder	1989	323079
B	113m NE	Gas Holder	1989	323079
B	113m NE	Gas Holder	1992	323079
B	113m NE	Gas Holder	1992	323079
B	114m NE	Gasholder	1972	309448
D	114m NW	Unspecified Tank	1931	305883
B	126m N	Tanks	1972	318518
B	128m N	Tanks	1972	313726
B	128m N	Tanks	1956	313726
B	128m N	Tanks	1956	314533
B	128m N	Tanks	1932	313726
B	129m N	Unspecified Tank	1912	306283
B	146m N	Unspecified Tank	1972	322513

ID	Location	Land Use	Date	Group ID
B	146m N	Unspecified Tank	1956	322513
B	146m N	Unspecified Tank	1956	322513
D	155m W	Unspecified Tank	1983	322236
D	155m W	Unspecified Tank	1983	322236
D	155m W	Unspecified Tank	1989	322236
D	155m W	Unspecified Tank	1989	322236
D	155m W	Unspecified Tank	1989	322236
D	155m W	Unspecified Tank	1989	322236
D	155m W	Unspecified Tank	1992	322236
D	155m W	Unspecified Tank	1992	322236
B	157m NW	Unspecified Tank	1956	325805
B	158m NW	Unspecified Tank	1956	325805
D	160m W	Unspecified Tank	1879	323538
D	160m W	Unspecified Tank	1879	323538
B	160m NE	Unspecified Tank	1899	318576
B	160m NE	Unspecified Tank	1912	318576
B	160m NE	Unspecified Tank	1932	318576
H	163m E	Unspecified Tank	1972	321724
H	164m E	Unspecified Tank	1983	312836
H	164m E	Unspecified Tank	1983	312836
H	164m E	Unspecified Tank	1989	312836
H	164m E	Unspecified Tank	1989	312836
H	164m E	Unspecified Tank	1989	312836
H	164m E	Unspecified Tank	1992	312836
H	164m E	Unspecified Tank	1992	312836
K	165m S	Tanks	1986	317208
K	165m S	Tanks	1983	326274
K	165m S	Tanks	1980	326274
K	165m S	Tanks	1986	326274



ID	Location	Land Use	Date	Group ID
D	165m W	Unspecified Tank	1956	315163
D	165m W	Unspecified Tank	1997	312716
D	165m W	Unspecified Tank	1997	312716
D	165m W	Unspecified Tank	1956	312716
D	165m W	Unspecified Tank	1973	312716
K	166m S	Tanks	1996	320273
K	166m S	Tanks	1993	320273
D	166m W	Unspecified Tank	1988	312716
B	166m NE	Unspecified Tank	1972	306281
D	166m W	Tanks	1912	310559
D	167m W	Unspecified Tank	1931	317614
D	168m W	Unspecified Tank	1931	316321
K	172m S	Tanks	1996	321780
K	172m S	Tanks	1993	321780
D	205m W	Unspecified Tank	1956	312987
D	206m W	Unspecified Tank	1956	313811
B	209m NE	Unspecified Tank	1972	306282
N	219m W	Gas Works	1912	320045
N	220m W	Gas Works	1879	313386
N	220m W	Gas Works	1879	313386
D	222m W	Unspecified Tank	1991	327804
D	222m W	Unspecified Tank	1971	327804
D	222m W	Unspecified Tank	1989	327804
N	223m W	Gas Works	1900	320045
N	224m W	Gas Works	1879	322520
D	226m W	Tanks	1997	315965
D	226m W	Tanks	1997	315965
D	227m W	Tanks	1988	315965

ID	Location	Land Use	Date	Group ID
D	227m W	Tanks	1990	315965
N	232m W	Tar Tank	1879	319744
N	232m W	Tar Tank	1879	319744
N	236m W	Gasometer	1879	309114
N	276m W	Gasometer	1879	326937
N	276m W	Gasometer	1879	326937
N	278m W	Gasometer	1900	315200
N	278m W	Gasometer	1912	315200
N	278m W	Gasometer	1931	315200
N	278m W	Gasometer	1879	315486
N	297m W	Gasometer	1879	316573
N	297m W	Gasometer	1879	316573
G	298m NW	Unspecified Tank	1956	325445
G	298m NW	Unspecified Tank	1956	325445
S	299m NE	Gas Works	1974	312450
N	300m W	Gasometer	1879	316573
N	306m W	Unspecified Tank	1879	305876
N	319m W	Unspecified Tank	1879	305875
G	328m W	Unspecified Tank	1956	305884
N	336m W	Unspecified Tank	1879	318143
N	336m W	Unspecified Tank	1879	318143
G	336m W	Unspecified Tank	1956	318537
G	337m W	Unspecified Tank	1956	318537
N	338m W	Unspecified Tank	1879	321527
N	338m W	Unspecified Tank	1879	321527
N	339m W	Tank or Trough	1879	324819
N	339m W	Tank or Trough	1879	325353
N	340m W	Unspecified Tank	1879	305879



ID	Location	Land Use	Date	Group ID
N	342m W	Unspecified Tank	1879	305877
N	347m W	Tanks	1879	310560
U	353m NW	Unspecified Tank	1972	305881
U	353m NW	Unspecified Tank	1972	305894
N	359m W	Unspecified Tank	1879	305878
U	390m N	Unspecified Tank	1972	305897
U	405m N	Unspecified Tank	1972	305896
5	417m W	Tanks	1973	310728
U	418m NW	Unspecified Tank	1972	305895
6	424m N	Tanks	1972	310729
S	436m NE	Gas Holders	1982	312430
S	437m NE	Gas Holders	-	302271
S	437m NE	Tanks	1956	310734
S	437m NE	Gasholders	1974	309352
S	438m NE	Unspecified Tank	1956	313628
S	439m NE	Unspecified Tank	1932	313628
AB	444m W	Unspecified Tank	1956	313910
AB	445m W	Unspecified Tank	1956	313910

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

150

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 28**

ID	Location	Land Use	Date	Group ID
B	18m N	Gas Works	1899	200516
B	18m N	Gas Works	1912	200516



ID	Location	Land Use	Date	Group ID
B	21m N	Gas Works	1972	196890
D	32m NW	Gas Works	1900	200516
D	32m NW	Gas Works	1912	200516
B	46m NE	Gasholders	1972	191593
B	47m NW	Gasholder	1972	191676
B	57m NW	Electricity Substation	1972	211102
B	57m NW	Electricity Substation	1983	210431
B	57m NW	Electricity Substation	1983	210431
B	87m N	Gasometer	1899	200461
B	87m N	Gasometer	1912	200461
B	98m N	Gasometer	1912	191476
B	99m N	Gasometer	1912	191477
B	113m NE	Gas Holder	1983	210182
B	113m NE	Gas Holder	1983	210182
B	113m NE	Gas Holder	1989	210182
B	113m NE	Gas Holder	1989	210182
B	113m NE	Gas Holder	1989	210182
B	113m NE	Gas Holder	1992	210182
B	113m NE	Gas Holder	1992	210182
B	114m NE	Gasholder	1972	191677
H	121m E	Electricity Substation	1972	198201
H	125m E	Electricity Substation	1983	206752
H	125m E	Electricity Substation	1983	206752
H	125m E	Electricity Substation	1989	206752
H	125m E	Electricity Substation	1989	206752
H	125m E	Electricity Substation	1989	206752
H	125m E	Electricity Substation	1992	206752
H	125m E	Electricity Substation	1992	206752



ID	Location	Land Use	Date	Group ID
F	126m SW	Electricity Substation	1996	202683
F	126m SW	Electricity Substation	1993	202683
D	127m NW	Electricity Substation	1972	204474
D	127m NW	Electricity Substation	1983	204474
D	127m NW	Electricity Substation	1983	204474
D	127m NW	Electricity Substation	1989	204474
D	127m NW	Electricity Substation	1989	204474
D	127m NW	Electricity Substation	1989	204474
D	127m NW	Electricity Substation	1989	204474
D	127m NW	Electricity Substation	1992	204474
D	127m NW	Electricity Substation	1992	204474
F	130m SW	Electricity Substation	1983	203121
F	130m SW	Electricity Substation	1980	203121
F	130m SW	Electricity Substation	1986	203121
F	130m SW	Electricity Substation	1986	203121
D	152m W	Electricity Substation	1983	201507
D	152m W	Electricity Substation	1983	201507
D	152m W	Electricity Substation	1989	201507
D	152m W	Electricity Substation	1989	201507
D	152m W	Electricity Substation	1989	201507
D	152m W	Electricity Substation	1992	201507
D	152m W	Electricity Substation	1992	201507
D	187m W	Electricity Substation	1997	192638
D	187m W	Electricity Substation	1997	194286
M	190m NW	Electricity Substation	1989	208104
M	190m NW	Electricity Substation	1989	208104
M	190m NW	Electricity Substation	1989	208104
M	190m NW	Electricity Substation	1992	208104
M	190m NW	Electricity Substation	1992	208104



ID	Location	Land Use	Date	Group ID
D	196m W	Electricity Substation	1956	192338
D	196m W	Electricity Substation	1973	194971
D	197m W	Electricity Substation	1956	192296
D	197m W	Electricity Substation	1988	192904
D	197m W	Electricity Substation	1990	193473
A	209m W	Electricity Substation	1956	205531
A	209m W	Electricity Substation	1973	205531
A	209m W	Electricity Substation	1956	209087
N	219m W	Gas Works	1912	195994
N	220m W	Gas Works	1879	203854
N	220m W	Gas Works	1879	203854
N	223m W	Gas Works	1900	195994
N	224m W	Gas Works	1879	203854
N	236m W	Gasometer	1879	191478
O	263m SE	Electricity Substation	1996	200884
O	263m SE	Electricity Substation	1993	200884
O	263m SE	Electricity Substation	1983	200884
O	263m SE	Electricity Substation	1980	200884
O	263m SE	Electricity Substation	1986	200884
O	264m SE	Electricity Substation	1986	200884
P	267m SE	Electricity Substation	1996	196503
P	267m SE	Electricity Substation	1993	196503
P	269m SE	Electricity Substation	1983	212354
P	269m SE	Electricity Substation	1980	212354
P	269m SE	Electricity Substation	1986	212354
P	269m SE	Electricity Substation	1986	212354
N	276m W	Gasometer	1879	196025
N	276m W	Gasometer	1879	196025



ID	Location	Land Use	Date	Group ID
N	278m W	Gasometer	1900	195707
N	278m W	Gasometer	1912	195707
N	278m W	Gasometer	1931	195707
N	278m W	Gasometer	1879	195707
J	283m NW	Electricity Substation	1956	208143
J	283m NW	Electricity Substation	1973	208143
J	283m NW	Electricity Substation	1997	208143
J	283m NW	Electricity Substation	1997	208143
J	283m NW	Electricity Substation	1988	208143
J	283m NW	Electricity Substation	1990	208143
J	288m NW	Electricity Substation	1956	201342
Q	290m S	Electricity Substation	1986	209162
Q	290m S	Electricity Substation	1956	209162
Q	290m S	Electricity Substation	1956	209162
Q	291m S	Electricity Substation	1993	209162
Q	291m S	Electricity Substation	1986	209162
N	297m W	Gasometer	1879	196452
N	297m W	Gasometer	1879	196452
S	299m NE	Gas Works	1974	192083
N	300m W	Gasometer	1879	196452
Q	301m S	Electricity Substation	1996	189780
T	306m SW	Electricity Substation	1989	194324
T	316m SW	Electricity Substation	1991	193682
T	316m SW	Electricity Substation	1971	192383
G	317m W	Electricity Substation	1997	204529
G	317m W	Electricity Substation	1988	204529
G	317m W	Electricity Substation	1990	204529
V	360m S	Electricity Substation	1996	211867

ID	Location	Land Use	Date	Group ID
V	360m S	Electricity Substation	1993	211867
V	363m S	Electricity Substation	1986	211867
V	363m S	Electricity Substation	1986	211867
X	375m SE	Electricity Substation	1989	204111
X	375m SE	Electricity Substation	1989	204111
X	375m SE	Electricity Substation	1989	204111
X	375m SE	Electricity Substation	1989	204111
X	375m SE	Electricity Substation	1993	201266
U	379m NW	Electricity Substation	1992	198922
U	379m NW	Electricity Substation	1992	198922
S	436m NE	Gas Holders	1982	192063
7	437m W	Electricity Substation	1971	189779
S	437m NE	Gas Holders	-	187510
S	437m NE	Gasholders	1974	191591
AA	443m W	Electricity Substations	1991	191566
AC	452m NW	Electricity Substation	1973	210780
AC	453m NW	Electricity Substation	1988	210780
AC	453m NW	Electricity Substation	1990	210780
AA	453m W	Electricity Substation	1956	192295
AA	454m W	Electricity Substation	1956	193212
AC	454m NW	Electricity Substation	1997	210780
AA	456m W	Electricity Substation	1971	192382
AA	458m W	Electricity Substation	1989	193409
AD	480m S	Electricity Substation	1983	202973
AD	480m S	Electricity Substation	1980	202973
AD	480m S	Electricity Substation	1986	202973
AD	482m S	Electricity Substation	1986	203327
AD	482m S	Electricity Substation	1996	203327

ID	Location	Land Use	Date	Group ID
AD	482m S	Electricity Substation	1993	203327
AE	485m W	Electricity Substation	1989	212340
AF	490m E	Electricity Substation	1982	196282
AF	491m E	Electricity Substation	-	187610
AF	491m E	Electricity Substation	1974	196282
AE	498m W	Electricity Substation	1956	209152
AE	499m W	Electricity Substation	1971	209152
AE	499m W	Electricity Substation	1956	209152

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

7

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 28**

ID	Location	Land Use	Date	Group ID
L	188m S	Garage	1986	65409
L	188m S	Garage	1966	62359
L	188m S	Garage	1983	65409
L	188m S	Garage	1980	65409
L	189m S	Garage	1993	64171

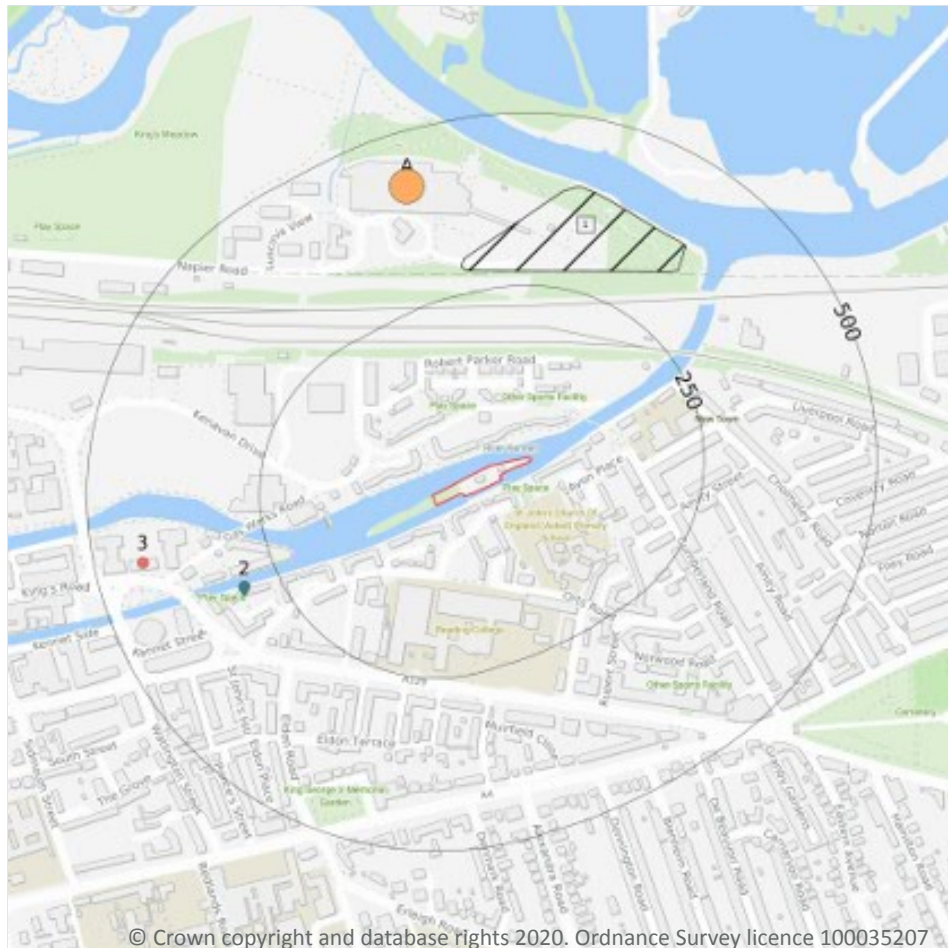


ID	Location	Land Use	Date	Group ID
L	189m S	Garage	1996	64171
L	201m S	Garage	1986	61047

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



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

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

1

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

Features are displayed on the Waste and landfill map on **page 48**

ID	Location	Details		
1	270m N	Site Address: Napier Road, Reading, Berkshire Licence Holder Address: -	Waste Licence: - Site Reference: TP0266, RDG3 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded: - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m

3

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

Features are displayed on the Waste and landfill map on **page 48**

ID	Location	Address	Further Details	Date
A	397m N	Site Address: Tesco Extra, Napier Road, READING, Berkshire, RG1 8DF	Type of Site: Recycling Centre Planning application reference: 08/01583/FUL Description: Scheme comprises re-siting of recycling area including replacement of recycling units with a single automated tomra recycling unit together with associated enabling works, recycling area to be reinstated with 20 parking bays, new recycling area to result in no loss of parking bays, total net gain of parking spaces = 20 from current level. Construction - black top surfacing site works. An application (ref: 08/01583/FUL) for detailed planning permission was withdrawn from Reading B.C. A detailed planning application has been withdrawn. Data source: Historic Planning Application Data Type: Point	-
A	397m N	Site Address: Tesco Stores Ltd, Napier Road, READING, Berkshire, RG1 8DF	Type of Site: Recycling Facility Planning application reference: CON/2008/2689 Description: Scheme comprises consultation from reading borough council to re-site recycling area including replacement of recycling units with a single automated tomra recycling unit together with enabling works, recycling area to be reinstated with 20 parking bay new recycling area to result in no loss of parking bays, total net gain of parking spaces = 20 from current level. Construction - black top surfacing, hardcore site works. An application (ref: CON/2008/2689) for detailed planning permission was submitted to Wokingham B.C. Data source: Historic Planning Application Data Type: Point	01/09/2009
A	397m N	Site Address: Tesco Extra, Napier Road, READING, Berkshire, RG1 8DF	Type of Site: Recycling Unit Planning application reference: 07/00672/FUL Description: Scheme comprises installation of replacement TOMRA recycling unit together with associated enlarging works. An application (ref: 07/00672/FUL) for detailed planning permission was granted by Reading B.C. Planning decision obtained Data source: Historic Planning Application Data Type: Point	-

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



3.6 Licensed waste sites

Records within 500m

1

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

Features are displayed on the Waste and landfill map on **page 48**

ID	Location	Details		
2	303m SW	Site Name: Alton House Waste Recycling Centre Site Address: Omega Park, Alton, Hampshire, GU34 2QE Correspondence Address: Hopkins Recycling Limited, Unit 10, Bridge Farm, Curbridge, Botley, Southampton, Hampshire, SO30 2HB	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HOP003 EPR reference: - Operator: Hopkins Recycling Ltd Waste Management licence No: 83406 Annual Tonnage: 4910	Issue Date: 15/10/2002 Effective Date: - Modified:: 17/12/2004 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

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

3.7 Waste exemptions

Records within 500m

1

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.

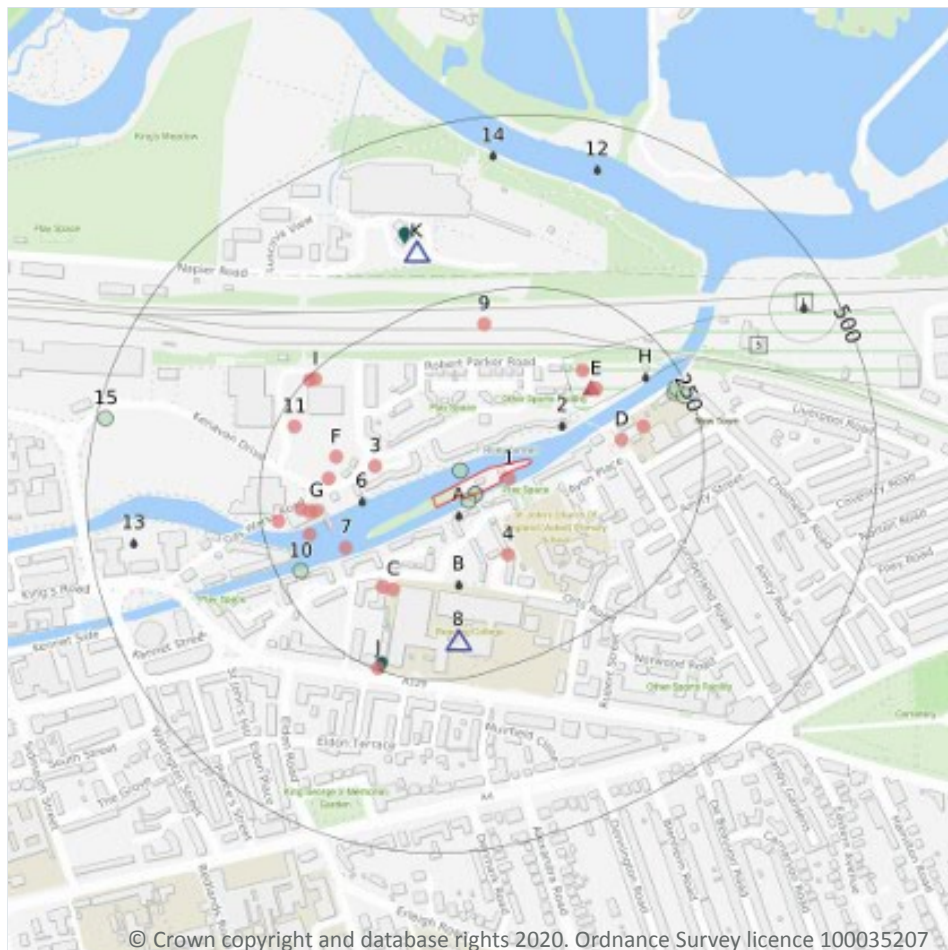
Features are displayed on the Waste and landfill map on **page 48**

ID	Location	Site	Reference	Category	Sub-Category	Description
3	431m W	Prudential PRU-KINGS 121 Kings Road Reading RG1 3ES	EPR/SF0708L W/A001	Treating waste exemption	Non-Agricultural Waste Only	Crushing waste fluorescent tubes

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

22

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 52**

ID	Location	Company	Address	Activity	Category
1	8m SE	Landing Stage	Berkshire, RG1	Moorings and Unloading Facilities	Water
3	94m NW	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
4	99m SE	Berkshire Recovery & Breakdown	7, Florence Walk, Reading, Berkshire, RG1 3HH	Scrap Metal Merchants	Recycling Services
C	134m SW	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
D	134m E	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
C	138m SW	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
E	140m NE	Gas Holder	Berkshire, RG1	Gas Features	Infrastructure and Facilities
7	143m SW	Mooring Posts	Berkshire, RG1	Moorings and Unloading Facilities	Water
E	151m NE	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
F	151m NW	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
F	152m W	Tank	Berkshire, RG1	Tanks (Generic)	Industrial Features
G	169m W	Tank	Berkshire, RG1	Tanks (Generic)	Industrial Features
D	170m E	Tank	Berkshire, RG1	Tanks (Generic)	Industrial Features
G	179m W	Pumping Station	Berkshire, RG1	Water Pumping Stations	Industrial Features
G	185m W	Landing Stage	Berkshire, RG1	Moorings and Unloading Facilities	Water
G	191m W	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
9	205m N	Mast	Berkshire, RG1	Telecommunications Features	Infrastructure and Facilities
11	224m NW	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
G	225m W	Tank	Berkshire, RG1	Tanks (Generic)	Industrial Features
I	241m NW	Tank	Berkshire, RG1	Tanks (Generic)	Industrial Features
I	246m NW	Electricity Sub Station	Berkshire, RG1	Electrical Features	Infrastructure and Facilities
J	247m S	Electricity Sub Station	Berkshire, RG1	Electrical 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 52**

ID	Location	Company	Address	LPG	Status
8	194m S	OBSOLETE	191, Kings Road, Reading, Reading, RG1 4JL	Not Applicable	Obsolete
K	331m N	TESCO EXTRA	Napier Road, Kingsmeadow, Reading, Reading, RG1 8DF	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

2

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 52**

ID	Location	Company	Address	Operational status	Tier
5	100m NE	Bg Plc	Bg Plc, Bg Transco, London Road, Reading, RG1 3DJ	Historical COMAH Site	-
L	403m NE	British Gas	British Gas, Reading Holder Station(4&5sites), Gasworks Road, Kennetmouth, London Road, Reading	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

3

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 52**

ID	Location	Details	
E	135m NE	Application reference number: 00/01175/HAZARD Application status: Withdrawn Application date: 08/09/2000 Address: British Gas Plc, Kenavon Drive, Reading, RG1 3DJ	Details: Continuation of existing consent for storage of natural gas following a change in control of part of the land (section 17). Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

ID	Location	Details	
E	135m NE	Application reference number: 92/00884/HAZARD Application status: Historical Consent Application date: 12/11/1992 Address: British Gas Plc., Kenavon Drive, Reading, RG1 3DJ	Details: Storage of natural gas. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
E	135m NE	Application reference number: 99/00038/HAZARD Application status: Historical Consent Application date: 15/12/1992 Address: British Gas Plc., Kenavon Drive, Reading, RG1 3DJ	Details: Continuation Of Hazardous Substances Consent Following A Change In Control Of Part Of The Land (section 17). 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
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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
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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	2
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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 52**

ID	Location	Address	Details	
J	241m S	Kings Road Garage, Kings Road, RG1 4EX	Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

ID	Location	Address	Details	
K	358m N	Tesco Stores Ltd, Napier Road, Reading, RG1 8DF	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

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0
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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	10
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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 52**

ID	Location	Address	Details	
A	24m SE	BLAKES LOCK HOUSE, BLAKES LOCK, NEA, BLAKES LOCK HOUSE BLAKES LOCK , NEAR READING BERKSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CSSM.0035 Permit Version: 1 Receiving Water: RIVER KENNET	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 26/08/1997 Effective Date: 26/08/1997 Revocation Date: 25/05/2006
2	68m NE	RIVERSIDE DEVELOPMENT, RIVERSIDE, K, RIVERSIDE DEVELOPMENT RIVERSIDE, KENAVON DRIVE READING BERKSH, IRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CNTW.0948 Permit Version: 1 Receiving Water: RIVER KENNET	Status: REVOKED - UNSPECIFIED Issue date: 18/02/1991 Effective Date: 18/02/1991 Revocation Date: 04/12/1992
6	102m W	READING GASWORKS SITE, OFF KENAVON, READING GASWORKS SITE OFF KENAV, ON DRIVE READING BERKS	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.1649 Permit Version: 1 Receiving Water: RIVER KENNET	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 09/06/1987 Effective Date: 09/06/1987 Revocation Date: 01/10/1996

ID	Location	Address	Details	
B	115m S	Reading, Blakes Lock, Reading, Blakes Lock	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.1768 Permit Version: 1 Receiving Water: HOLLY BROOK	Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 02/09/2010
B	115m S	Reading, Blakes Lock, Reading, Blakes Lock	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.1768 Permit Version: 2 Receiving Water: Holly Brook	Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: -
H	204m NE	READING GASWORKS SITE, OFF KENAVON, READING GASWORKS SITE OFF KENAV, ON DRIVE READING BERKS	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.1648 Permit Version: 1 Receiving Water: RIVER KENNET	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 09/06/1987 Effective Date: 09/06/1987 Revocation Date: 01/10/1996
12	431m N	REDLAND AGGREGATES, HENLEY ROAD, DU, REDLAND AGGREGATES HENLEY ROAD , DUNSDEN READING BERKSHIRE	Effluent Type: TRADE DISCHARGES - MINERAL WORKINGS Permit Number: CTWC.3339 Permit Version: 1 Receiving Water: RIVER THAMES	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 22/05/1989 Effective Date: 22/05/1989 Revocation Date: 19/10/2001
13	437m W	NABISCO BRANDS LTD. KINGS ROAD READ, NABISCO BRANDS LTD. KINGS ROAD R, EADING	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.0435 Permit Version: 1 Receiving Water: RIVER KENNET	Status: REVOKED - UNSPECIFIED Issue date: 18/10/1985 Effective Date: 18/10/1985 Revocation Date: 08/05/1991
14	443m N	TESCO SUPERSTORE, KINGS MEADOW, REA, TESCO SUPERSTORE KINGS MEADOW , READING BERKSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CNTW.0610 Permit Version: 1 Receiving Water: RIVER THAMES	Status: TRANSFERRED FROM WATER ACT 1989 Issue date: 19/07/1990 Effective Date: 19/07/1990 Revocation Date: -
L	452m NE	GASHOLDER STATION, EARLEY, READING, GASHOLDER STATION EARLEY READI, NG BERKS	Effluent Type: MISCELLANEOUS DISCHARGES - UNSPECIFIED Permit Number: CTCR.0985 Permit Version: 1 Receiving Water: KENNET	Status: REVOKED - UNSPECIFIED Issue date: 15/02/1968 Effective Date: 09/12/1968 Revocation Date: 06/06/1991

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



4.14 Pollutant release to surface waters (Red List)

Records within 500m**0**

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

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

4.15 Pollutant release to public sewer

Records within 500m**0**

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m**0**

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

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

4.17 List 2 Dangerous Substances

Records within 500m**0**

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m**9**

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

Features are displayed on the Current industrial land use map on **page 52**

ID	Location	Details	
A	On site	Incident Date: 04/10/2001 Incident Identification: 34552 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	On site	Incident Date: 04/10/2001 Incident Identification: 34552 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	6m SE	Incident Date: 19/03/2002 Incident Identification: 65030 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	15m NW	Incident Date: 16/03/2002 Incident Identification: 64464 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
10	217m SW	Incident Date: 27/06/2003 Incident Identification: 169420 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
H	229m NE	Incident Date: 16/04/2002 Incident Identification: 71997 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	234m NE	Incident Date: 26/11/2002 Incident Identification: 123096 Pollutant: Sewage Materials Pollutant Description: Grey Water	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	240m NE	Incident Date: 26/06/2002 Incident Identification: 87630 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
15	486m W	Incident Date: 01/11/2002 Incident Identification: 118072 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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



4.19 Pollution inventory substances

Records within 500m**0**

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

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

4.20 Pollution inventory waste transfers

Records within 500m**0**

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

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

4.21 Pollution inventory radioactive waste

Records within 500m**0**

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

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

5 Hydrogeology - Superficial aquifer



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

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5.1 Superficial aquifer

Records within 500m

1

Aquifer status of groundwater held within superficial geology.

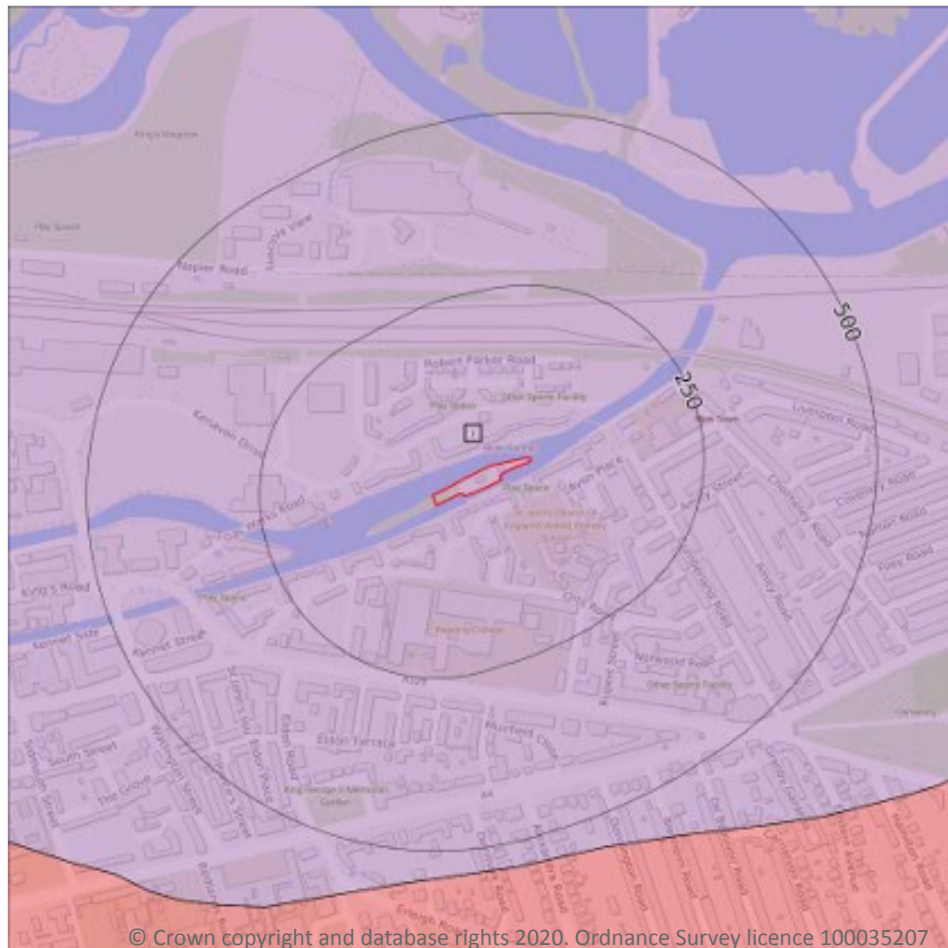
Features are displayed on the Hydrogeology map on **page 62**

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

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



Bedrock aquifer



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

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5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

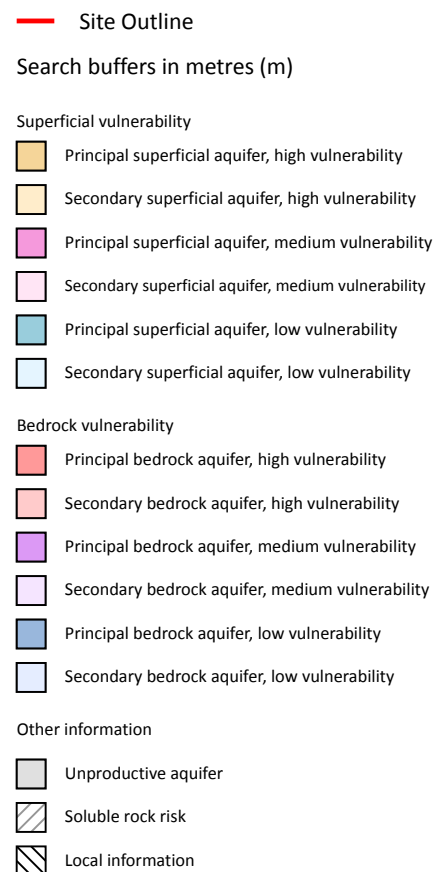
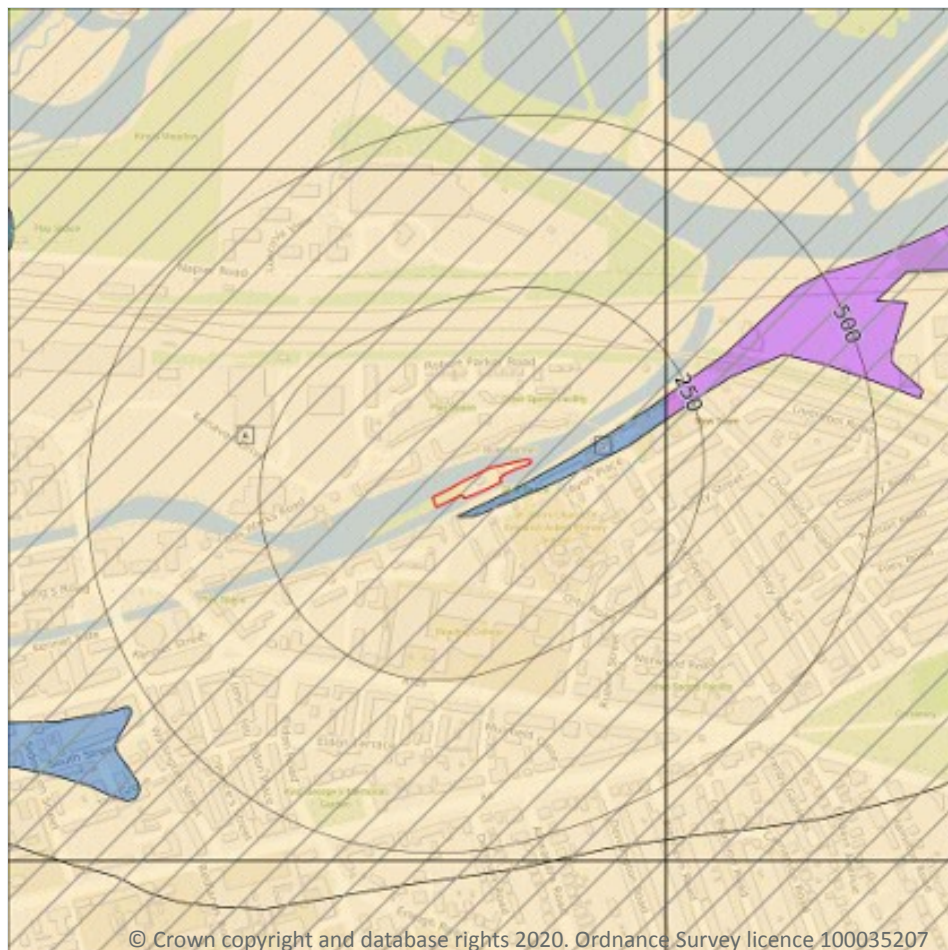
Features are displayed on the Bedrock aquifer map on [page 63](#)

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

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

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

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

Features are displayed on the Groundwater vulnerability map on **page 64**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
A	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Medium	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
1	17m SE	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: >90% Recharge potential: Medium	Vulnerability: Low 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	1
------------------------	----------

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
A	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.	20.0%

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

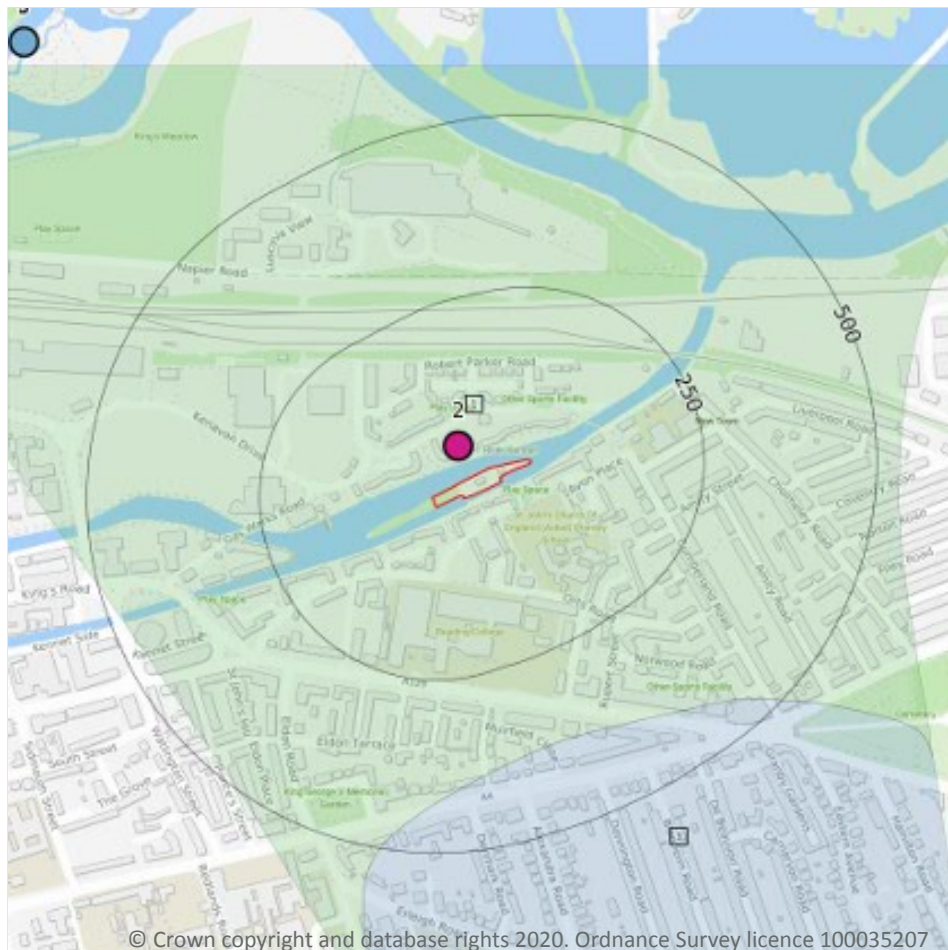
5.5 Groundwater vulnerability- local information

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

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

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

Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

20

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 66**

ID	Location	Details	
2	49m NW	Status: Historical Licence No: 28/39/22/0600 Details: Pollution Remediation Direct Source: THAMES GROUNDWATER Point: FORMER GASWORKS, KENAVON DRIVE, READING (5 BOREHOLES) Data Type: Point Name: M J GLEESON GROUP PLC Easting: 472700 Northing: 173600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/07/2000 Expiry Date: 31/08/2001 Issue No: 1 Version Start Date: 31/07/2000 Version End Date: -
-	760m S	Status: Active Licence No: 28/39/22/0521 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: ROYAL BERKSHIRE HOSPITAL Data Type: Point Name: ROYAL BERKSHIRE HOSPITAL Easting: 472400 Northing: 172800	Annual Volume (m ³): 127,750 Max Daily Volume (m ³): 350 Original Application No: - Original Start Date: 17/01/1992 Expiry Date: - Issue No: 100 Version Start Date: 17/01/1992 Version End Date: -
-	765m NE	Status: Historical Licence No: 28/39/23/0016 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: READING UNIVERSITY RESEARCH SITE, READING, - WELL 'A' Data Type: Point Name: UNIVERSITY OF READING Easting: 473500 Northing: 173900	Annual Volume (m ³): 1136 Max Daily Volume (m ³): 22.73 Original Application No: - Original Start Date: 14/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	836m NE	Status: Active Licence No: 28/39/23/0191 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT WATERSIDE CENTRE, THAMES VALLEY PARK ROAD Data Type: Point Name: WOKINGHAM WATERSIDE CENTRE LTD Easting: 473560 Northing: 173940	Annual Volume (m ³): 2,600 Max Daily Volume (m ³): 25 Original Application No: - Original Start Date: 21/12/2000 Expiry Date: - Issue No: 3 Version Start Date: 01/04/2008 Version End Date: -



ID	Location	Details	
-	1160m NW	Status: Active Licence No: 28/39/23/0020 Details: Laundry Use Direct Source: THAMES GROUNDWATER Point: 72 GEORGE STREET, CAVERSHAM, - BOREHOLE 'A' Data Type: Point Name: Berendsen UK Limited Easting: 471900 Northing: 174400	Annual Volume (m ³): 68,190 Max Daily Volume (m ³): 300.04 Original Application No: - Original Start Date: 09/05/1966 Expiry Date: - Issue No: 102 Version Start Date: 12/01/2016 Version End Date: -
-	1274m E	Status: Historical Licence No: 28/39/23/0175 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: THAMES VALLEY PARK, READING - BOREHOLE 'A' Data Type: Point Name: THAMES VALLEY PARK MANCO LTD Easting: 474030 Northing: 173930	Annual Volume (m ³): 50750 Max Daily Volume (m ³): 750 Original Application No: - Original Start Date: 06/04/1995 Expiry Date: 30/09/2010 Issue No: 101 Version Start Date: 01/10/1999 Version End Date: -
-	1274m E	Status: Historical Licence No: 28/39/23/0175 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: THAMES VALLEY PARK, READING - BOREHOLE 'A' Data Type: Point Name: THAMES VALLEY PARK MANCO LTD Easting: 474030 Northing: 173930	Annual Volume (m ³): 50750 Max Daily Volume (m ³): 750 Original Application No: - Original Start Date: 06/04/1995 Expiry Date: 30/09/2010 Issue No: 101 Version Start Date: 01/10/1999 Version End Date: -
-	1332m E	Status: Historical Licence No: 28/39/23/0175 Details: Make-Up Or Top Up Water Direct Source: THAMES GROUNDWATER Point: THAMES VALLEY PARK, READING, - BOREHOLE 'B' Data Type: Point Name: THAMES VALLEY PARK MANCO LTD Easting: 474090 Northing: 173930	Annual Volume (m ³): 50750 Max Daily Volume (m ³): 750 Original Application No: - Original Start Date: 06/04/1995 Expiry Date: 30/09/2010 Issue No: 101 Version Start Date: 01/10/1999 Version End Date: -



ID	Location	Details	
-	1332m E	Status: Historical Licence No: 28/39/23/0175 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: THAMES VALLEY PARK, READING, - BOREHOLE 'B' Data Type: Point Name: THAMES VALLEY PARK MANCO LTD Easting: 474090 Northing: 173930	Annual Volume (m ³): 50750 Max Daily Volume (m ³): 750 Original Application No: - Original Start Date: 06/04/1995 Expiry Date: 30/09/2010 Issue No: 101 Version Start Date: 01/10/1999 Version End Date: -
-	1462m W	Status: Active Licence No: 28/39/23/0042 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: CHEAPSIDE, READING, BERKSHIRE Data Type: Point Name: PRIMARK STORES LIMITED Easting: 471200 Northing: 173500	Annual Volume (m ³): 14,933 Max Daily Volume (m ³): 40.91 Original Application No: - Original Start Date: 11/07/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2008 Version End Date: -
-	1728m NE	Status: Active Licence No: 28/39/23/0011 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: DEANS FARM, CAVERSHAM, - GRAVEL WET PIT, POINT 'B' Data Type: Point Name: Tarmac Aggregates Limited Easting: 473830 Northing: 174970	Annual Volume (m ³): 210,860 Max Daily Volume (m ³): 1,223 Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 106 Version Start Date: 26/10/2015 Version End Date: -
-	1728m NE	Status: Active Licence No: 28/39/23/0011 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: DEANS FARM, CAVERSHAM, - GRAVEL WET PIT, POINT 'B' Data Type: Point Name: Tarmac Aggregates Limited Easting: 473830 Northing: 174970	Annual Volume (m ³): 210,860 Max Daily Volume (m ³): 1,223 Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 106 Version Start Date: 26/10/2015 Version End Date: -

ID	Location	Details	
-	1736m NE	Status: Active Licence No: 28/39/23/0011 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: DEANS FARM, CAVERSHAM, GRAVEL WET PIT, POINT 'A' Data Type: Point Name: Tarmac Aggregates Limited Easting: 473830 Northing: 174980	Annual Volume (m ³): 210,860 Max Daily Volume (m ³): 1,223 Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 106 Version Start Date: 26/10/2015 Version End Date: -
-	1736m NE	Status: Active Licence No: 28/39/23/0011 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: DEANS FARM, CAVERSHAM, GRAVEL WET PIT, POINT 'A' Data Type: Point Name: Tarmac Aggregates Limited Easting: 473830 Northing: 174980	Annual Volume (m ³): 210,860 Max Daily Volume (m ³): 1,223 Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 106 Version Start Date: 26/10/2015 Version End Date: -
-	1841m S	Status: Historical Licence No: 28/39/22/0077 Details: General use relating to Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: WHITEKNIGHTS PARK, READING Data Type: Point Name: UNIVERSITY OF READING Easting: 473000 Northing: 171700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 26/04/1993 Version End Date: -
-	1848m S	Status: Historical Licence No: 28/39/22/0077 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: WHITEKNIGHTS PARK - READING - BOREHOLE Data Type: Point Name: UNIVERSITY OF READING Easting: 473040 Northing: 171700	Annual Volume (m ³): 240000 Max Daily Volume (m ³): 1032 Original Application No: - Original Start Date: 14/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 01/04/2011 Version End Date: -



ID	Location	Details	
-	1853m W	Status: Historical Licence No: 28/39/23/0041 Details: Non-Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: CARDIFF ROAD, READING, BERKSHIRE Data Type: Point Name: COX & WYMAN LTD Easting: 470900 Northing: 174100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/07/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/07/1966 Version End Date: -
-	1853m W	Status: Historical Licence No: 28/39/23/0041 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: CARDIFF ROAD, READING, BERKSHIRE Data Type: Point Name: COX & WYMAN LTD Easting: 470900 Northing: 174100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/07/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/07/1966 Version End Date: -
-	1853m W	Status: Active Licence No: 28/39/23/0167 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: MEADOW ROAD, READING, BERKSHIRE Data Type: Point Name: MANROSE MANUFACTURING LTD Easting: 470900 Northing: 174100	Annual Volume (m ³): 90,920 Max Daily Volume (m ³): 727.40 Original Application No: - Original Start Date: 23/01/1990 Expiry Date: - Issue No: 101 Version Start Date: 30/06/2006 Version End Date: -
-	1853m W	Status: Active Licence No: 28/39/23/0167 Details: Non-Evaporative Cooling Direct Source: THAMES GROUNDWATER Point: MEADOW ROAD, READING, BERKSHIRE Data Type: Point Name: MANROSE MANUFACTURING LTD Easting: 470900 Northing: 174100	Annual Volume (m ³): 90,920 Max Daily Volume (m ³): 727.40 Original Application No: - Original Start Date: 23/01/1990 Expiry Date: - Issue No: 101 Version Start Date: 30/06/2006 Version End Date: -

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



5.7 Surface water abstractions

Records within 2000m

7

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 66**

ID	Location	Details	
5	885m NW	Status: Active Licence No: TH/039/0023/022 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: RIVER THAMES AT CAVERSHAM WEIR Data Type: Point Name: The Reading Sustainability Centre CIC Easting: 472072 Northing: 174185	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/02/2016 Expiry Date: 31/03/2028 Issue No: 2 Version Start Date: 19/02/2019 Version End Date: -
-	1136m W	Status: Historical Licence No: 28/39/22/0594 Details: Lake & Pond Throughflow Direct Source: THAMES SURFACE WATER - NON TIDAL Point: THE ORACLE CENTRE, READING Data Type: Point Name: ORACLE SHOPPING CENTRE LTD Easting: 471590 Northing: 173150	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/2000 Expiry Date: - Issue No: 1 Version Start Date: 16/02/2000 Version End Date: -
-	1136m W	Status: Active Licence No: 28/39/22/0594 Details: Lake & Pond Throughflow Direct Source: THAMES SURFACE WATER - NON TIDAL Point: ST.GILES STREAM AT THE ORACLE CENTRE, READING Data Type: Point Name: ORACLE SHOPPING CENTRE LTD Easting: 471590 Northing: 173150	Annual Volume (m ³): 737,856 Max Daily Volume (m ³): 2,016 Original Application No: - Original Start Date: 16/02/2000 Expiry Date: - Issue No: 1 Version Start Date: 16/02/2000 Version End Date: -
-	1532m NW	Status: Historical Licence No: 28/39/23/0196 Details: Transfer between sources Direct Source: THAMES SURFACE WATER - NON TIDAL Point: THAMES AT CHRISTCHURCH MEADOW Data Type: Point Name: READING BOROUGH COUNCIL Easting: 471440 Northing: 174450	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/05/2003 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 12/05/2003 Version End Date: -



ID	Location	Details	
-	1532m NW	Status: Historical Licence No: 28/39/23/0196 Details: Lake & Pond Throughflow Direct Source: THAMES SURFACE WATER - NON TIDAL Point: THAMES AT CHRISTCHURCH MEADOW Data Type: Point Name: READING BOROUGH COUNCIL Easting: 471440 Northing: 174450	Annual Volume (m ³): 31536 Max Daily Volume (m ³): 86.4 Original Application No: - Original Start Date: 12/05/2003 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 01/04/2006 Version End Date: -
-	1532m NW	Status: Historical Licence No: 28/39/23/0199/TR Details: Transfer Between Sources (Post Water Act 2003) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: RIVER THAMES - CHRISTCHURCH MEADOWS Data Type: Point Name: READING BOROUGH COUNCIL Easting: 471440 Northing: 174450	Annual Volume (m ³): 1,752,000 Max Daily Volume (m ³): 4800 Original Application No: - Original Start Date: 10/09/2008 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 10/09/2008 Version End Date: -
-	1902m NE	Status: Historical Licence No: 28/39/23/0198 Details: General Washing/Process Washing Direct Source: THAMES SURFACE WATER - NON TIDAL Point: CAVERSHAM LAKES - CAVERSHAM - PIPE Data Type: Point Name: CAVERSHAM LAKES TRUST LIMITED Easting: 474070 Northing: 175000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 06/08/2004 Expiry Date: 31/03/2014 Issue No: 1 Version Start Date: 06/08/2004 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

6

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 66**

ID	Location	Details	
-	760m S	Status: Active Licence No: 28/39/22/0521 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: ROYAL BERKSHIRE HOSPITAL Data Type: Point Name: ROYAL BERKSHIRE HOSPITAL Easting: 472400 Northing: 172800	Annual Volume (m ³): 127,750 Max Daily Volume (m ³): 350 Original Application No: - Original Start Date: 17/01/1992 Expiry Date: - Issue No: 100 Version Start Date: 17/01/1992 Version End Date: -
-	836m NE	Status: Active Licence No: 28/39/23/0191 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT WATERSIDE CENTRE, THAMES VALLEY PARK ROAD Data Type: Point Name: WOKINGHAM WATERSIDE CENTRE LTD Easting: 473560 Northing: 173940	Annual Volume (m ³): 2,600 Max Daily Volume (m ³): 25 Original Application No: - Original Start Date: 21/12/2000 Expiry Date: - Issue No: 3 Version Start Date: 01/04/2008 Version End Date: -
-	1462m W	Status: Active Licence No: 28/39/23/0042 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: CHEAPSIDE, READING, BERKSHIRE Data Type: Point Name: PRIMARK STORES LIMITED Easting: 471200 Northing: 173500	Annual Volume (m ³): 14,933 Max Daily Volume (m ³): 40.91 Original Application No: - Original Start Date: 11/07/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2008 Version End Date: -
-	1848m S	Status: Historical Licence No: 28/39/22/0077 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: WHITEKNIGHTS PARK - READING - BOREHOLE Data Type: Point Name: UNIVERSITY OF READING Easting: 473040 Northing: 171700	Annual Volume (m ³): 240000 Max Daily Volume (m ³): 1032 Original Application No: - Original Start Date: 14/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 01/04/2011 Version End Date: -



ID	Location	Details	
-	1853m W	Status: Historical Licence No: 28/39/23/0041 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: CARDIFF ROAD, READING, BERKSHIRE Data Type: Point Name: COX & WYMAN LTD Easting: 470900 Northing: 174100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/07/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/07/1966 Version End Date: -
-	1853m W	Status: Active Licence No: 28/39/23/0167 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: MEADOW ROAD, READING, BERKSHIRE Data Type: Point Name: MANROSE MANUFACTURING LTD Easting: 470900 Northing: 174100	Annual Volume (m ³): 90,920 Max Daily Volume (m ³): 727.40 Original Application No: - Original Start Date: 23/01/1990 Expiry Date: - Issue No: 101 Version Start Date: 30/06/2006 Version End Date: -

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 66**

ID	Location	Type	Description
1	On site	3	Total catchment
3	378m S	2	Outer catchment

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

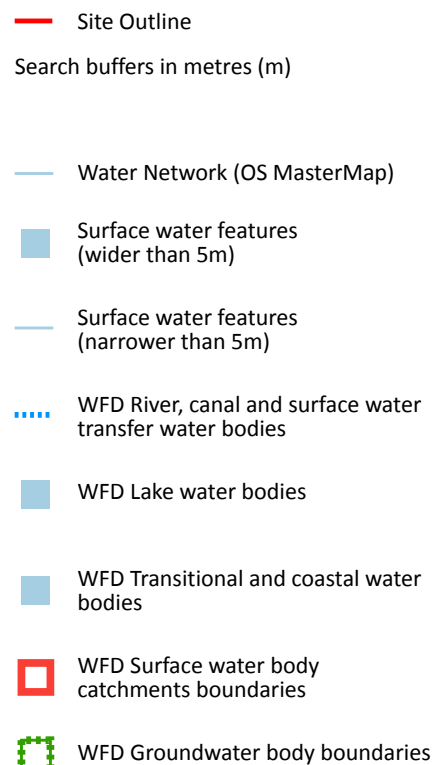
5.10 Source Protection Zones (confined aquifer)

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

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





ID	Location	Type of water feature	Ground level	Permanence	Name
A	9m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Kennet
5	18m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Kennet
C	126m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Kennet
C	126m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	134m SW	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Kennet and Avon Canal
B	154m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	174m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
B	193m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	198m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
6	204m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Kennet
C	204m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	207m SW	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Kennet and Avon Canal
B	229m NE	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
F	239m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Kennet

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

2

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

Features are displayed on the Hydrology map on **page 76**

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 76**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
3	On site	River WB catchment	Kennet and Holy Brook	GB106039023140	Kennet	Kennet and tributaries

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 76**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
4	4m N	River	Kennet and Holy Brook	GB106039023140	Moderate	Good	Moderate	2016

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

6.5 WFD Groundwater bodies

Records on site	1
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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 76**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	Berkshire Downs Chalk	GB40601G600900	Poor	Poor	Poor	2015

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

7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- Environment Agency river and coastal flooding:
 - High
 - Medium
 - Low
 - Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

13

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

Features are displayed on the River and coastal flooding map on **page 80**

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



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

7.2 Historical Flood Events

Records within 250m

6

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.

Features are displayed on the River and coastal flooding map on **page 80**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
3	On site	06decemberwinter 2000	2000-01-01 2000-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
B	On site	06augustsummer1977	1977-01-01 1977-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
C	On site	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
C	39m NE	06decemberwinter2000	2000-01-01 2000-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
11	195m W	06decemberwinter2000	2000-01-01 2000-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
E	250m NE	06augustsummer1977	1977-01-01 1977-12-12	Other	Local drainage/surface water	Fluvial

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

7.3 Flood Defences

Records within 250m

0

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

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



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on **page 80**

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

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

7.7 Flood Zone 3

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on **page 80**

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

1 in 30 year, 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 85**

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.

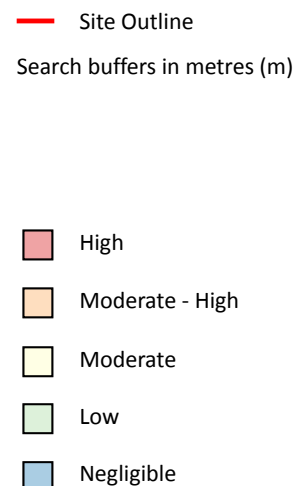
The table below shows the maximum flood depths for a range of return periods for the site.

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 Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

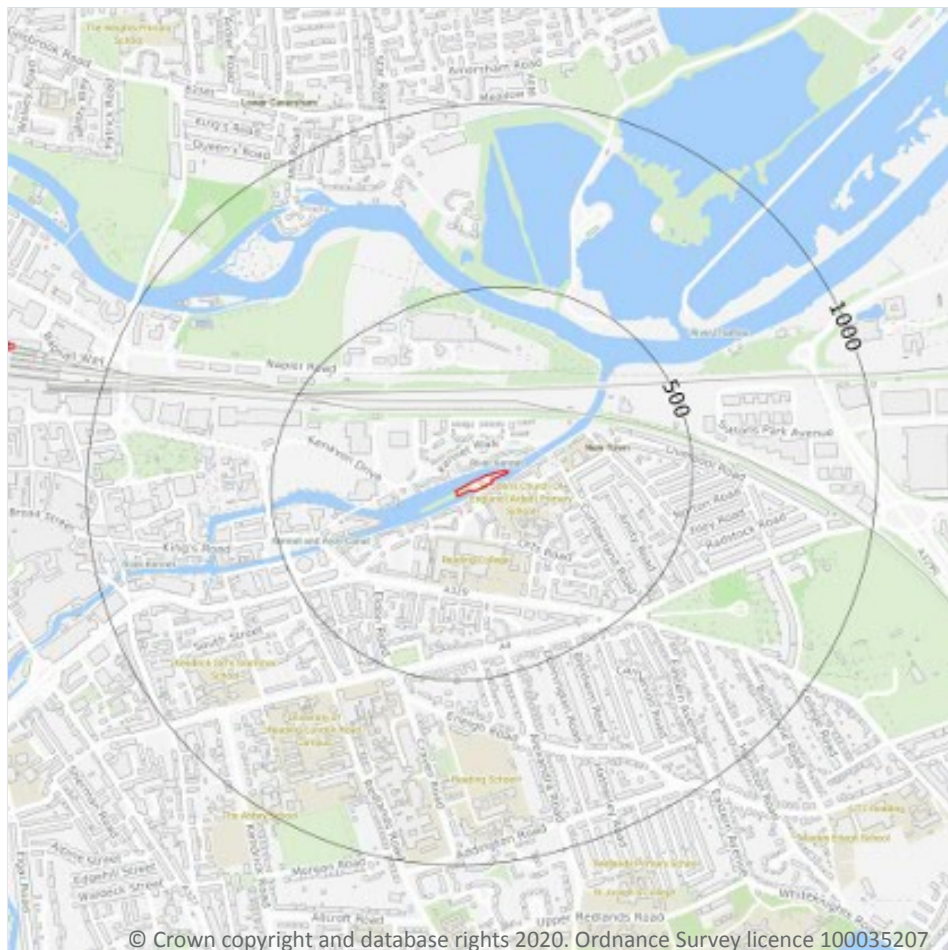
Moderate

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

Features are displayed on the Groundwater flooding map on **page 87**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Designated Ancient Woodland

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**1**

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 88**

ID	Location	Name	Woodland Type
-	1412m NE	Unknown	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m**0**

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

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

10.9 Forest Parks

Records within 2000m**0**

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m**0**

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

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

10.11 Green Belt

Records within 2000m**0**

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

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

10.12 Proposed Ramsar sites

Records within 2000m**0**

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

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

This data is sourced from Natural England.



10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

3

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

Location	Name	Type	NVZ ID	Status
221m W	Thames Wallingford to Caversham NVZ	Surface Water	S481	Existing
474m NE	Sheeplands	Groundwater	G88	Existing
1336m E	Sheeplands	Groundwater	G88	Existing

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	0
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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.

This data is sourced from Natural England.

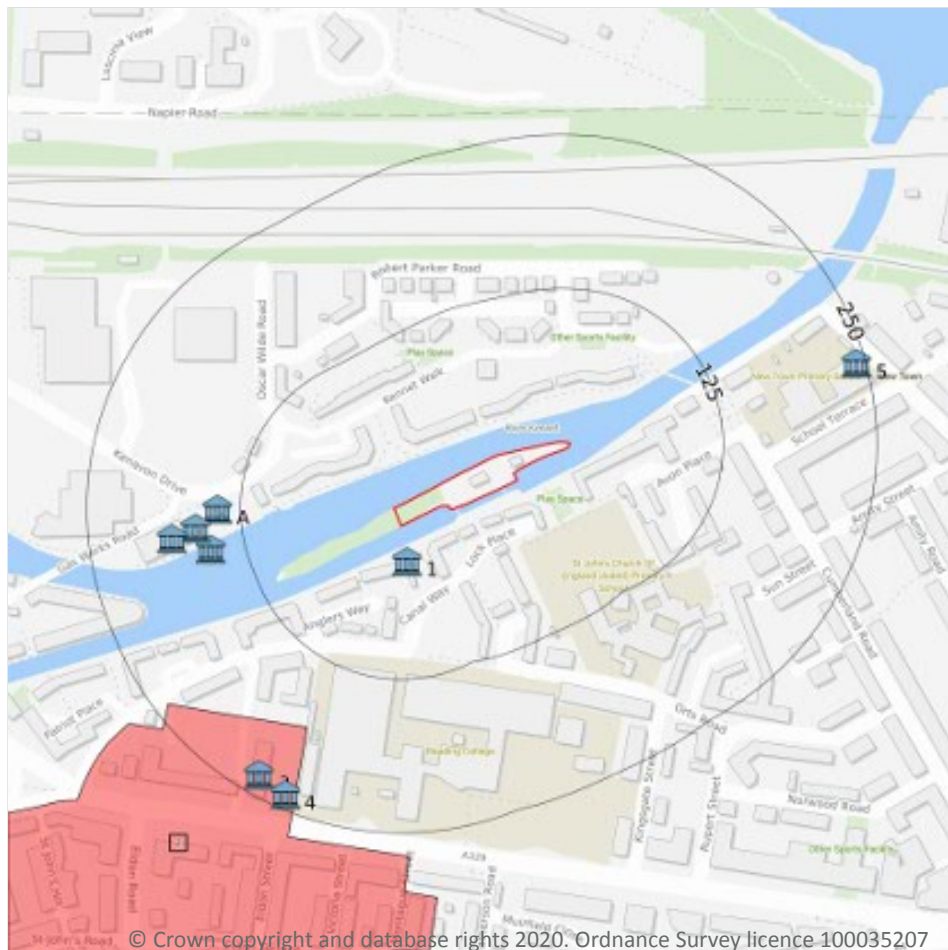
10.18 SSSI Units

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

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

11 Visual and cultural designations



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

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

8

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 94**

ID	Location	Name	Grade	Reference Number	Listed date
1	29m S	Fisherman's Cottage Inn, Reading, RG1	II	1113496	14/12/1978
A	144m W	47-48, Kenavon Drive, Reading, RG1	II	1248695	10/06/1985
A	153m W	The Pump And Turbine House, Reading, RG1	II	1321867	10/06/1985
A	162m W	The Screens House, Reading, RG1	II	1113618	10/06/1985
A	182m W	The Engine House, Reading, RG1	II	1248683	10/06/1985
3	233m SW	185, Kings Road, Reading, RG1	II	1113499	24/10/1974

ID	Location	Name	Grade	Reference Number	Listed date
4	238m SW	187 And 189, Kings Road, Reading, RG1	II	1321921	24/10/1974
5	243m E	Newton School, Reading, RG1	II	1156962	14/12/1978

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

11.5 Conservation Areas

Records within 250m

1

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

Features are displayed on the Visual and cultural designations map on **page 94**

ID	Location	Name	District	Date of designation
2	181m SW	Eldon Square, Reading	Reading	1972

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

0

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

2

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

Features are displayed on the Agricultural designations map on **page 98**

ID	Location	Classification	Description
1	On site	Urban	-

ID	Location	Classification	Description
2	237m NE	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0
----------------------------	----------

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

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

12.3 Tree Felling Licences

Records within 250m	0
----------------------------	----------

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0
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Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

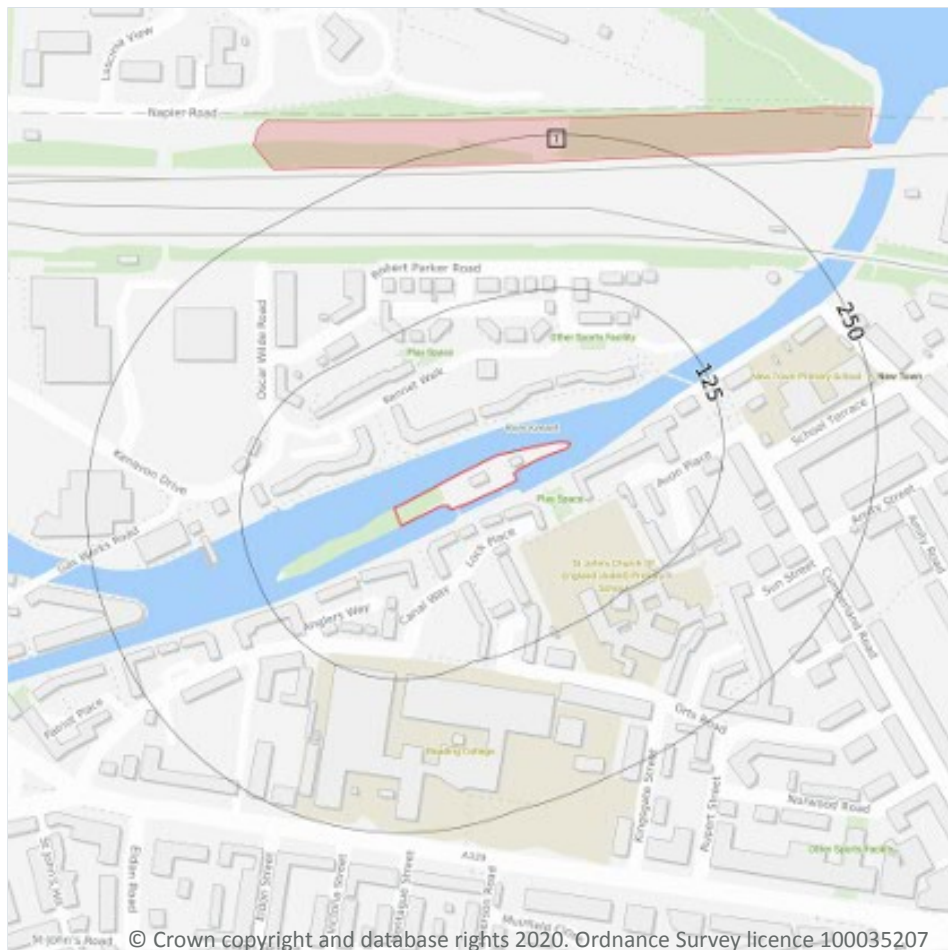
Records within 250m	0
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Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations



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

13.1 Priority Habitat Inventory

Records within 250m

1

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on **page 100**

ID	Location	Main Habitat	Other habitats
1	228m N	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

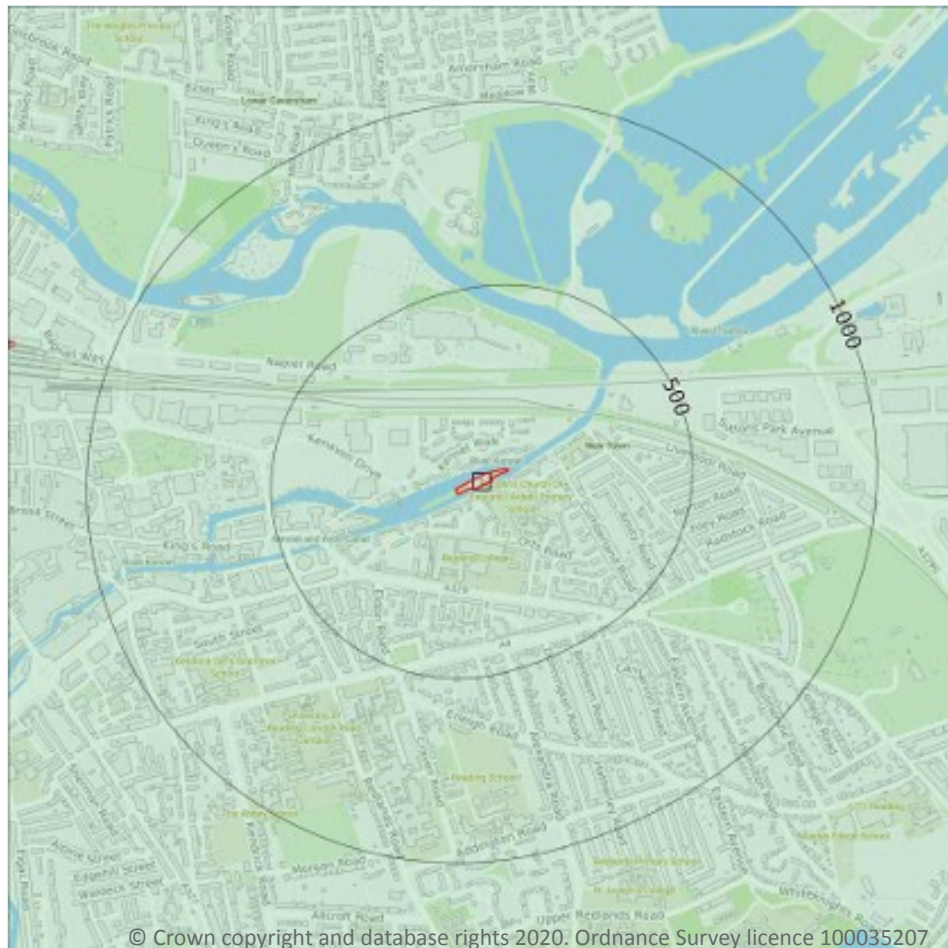
0

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.

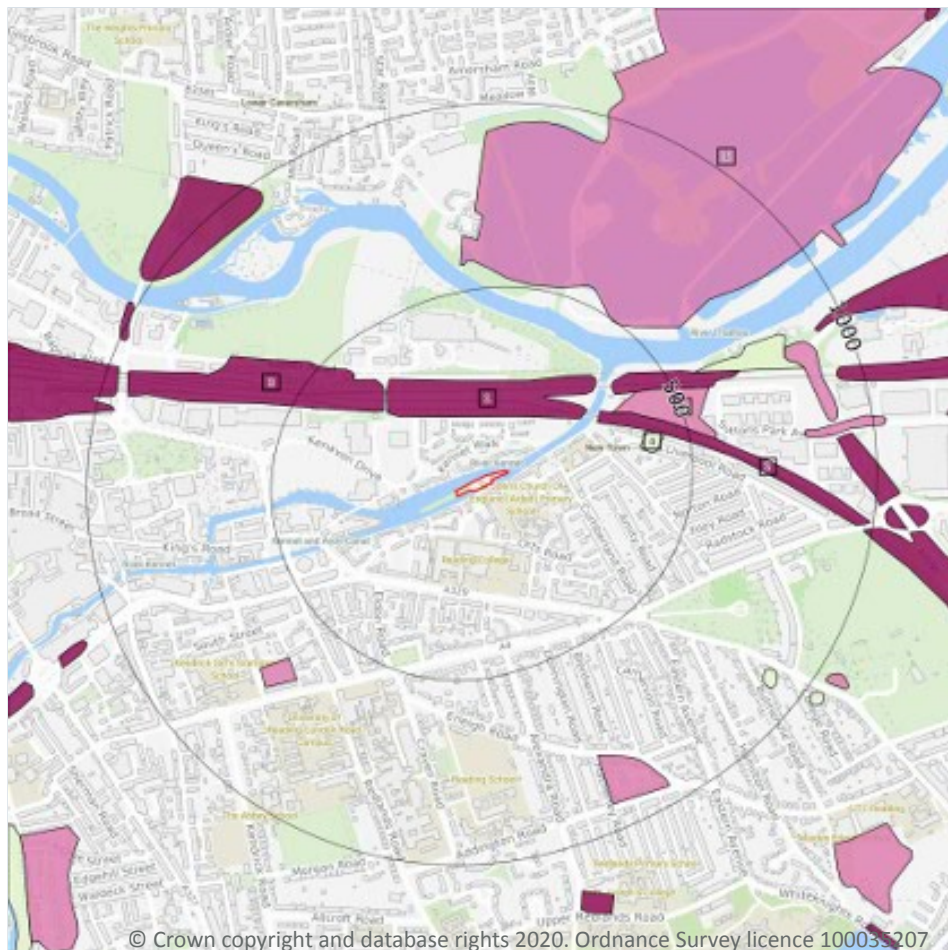
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 102**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SU77SW

This data is sourced from the British Geological Survey.



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



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

14.2 Artificial and made ground (10k)

Records within 500m

7

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 103**

ID	Location	LEX Code	Description	Rock description
1	148m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	276m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	292m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	325m NE	WGR-VOID	Worked Ground (Undivided)	Void

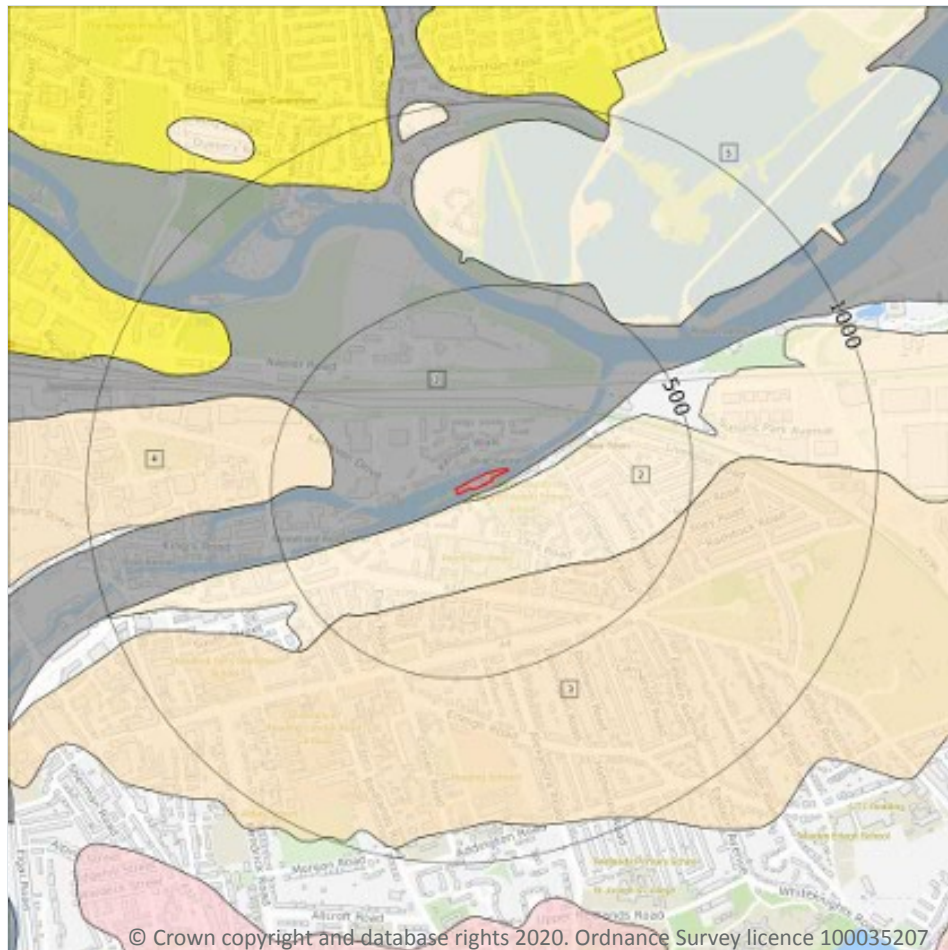


ID	Location	LEX Code	Description	Rock description
A	357m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	366m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
5	497m NE	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

▣ Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

5

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 105**

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt
2	24m SE	KPGR-XSV	Kempton Park Gravel Formation - Sand And Gravel	Sand And Gravel
3	258m S	TPGR-XSV	Taplow Gravel Formation - Sand And Gravel	Sand And Gravel
4	333m W	TPGR-XSV	Taplow Gravel Formation - Sand And Gravel	Sand And Gravel

ID	Location	LEX Code	Description	Rock description
5	497m NE	KPGR-XSV	Kempton Park Gravel Formation - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

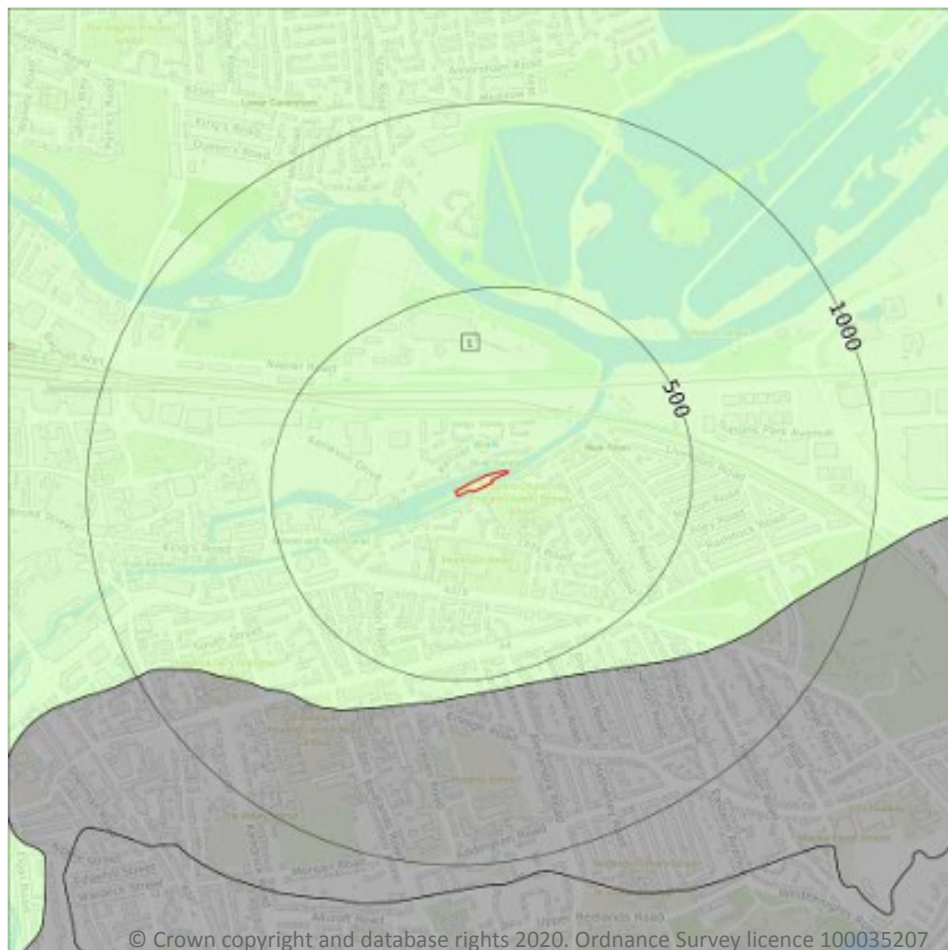
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m

1

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 107**

ID	Location	LEX Code	Description	Rock age
1	On site	LSNCK-CHLK	Lewes Nodular Chalk Formation, Seaford Chalk Formation And Newhaven Chalk Formation (undifferentiated) - Chalk	Campanian Age - Turonian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

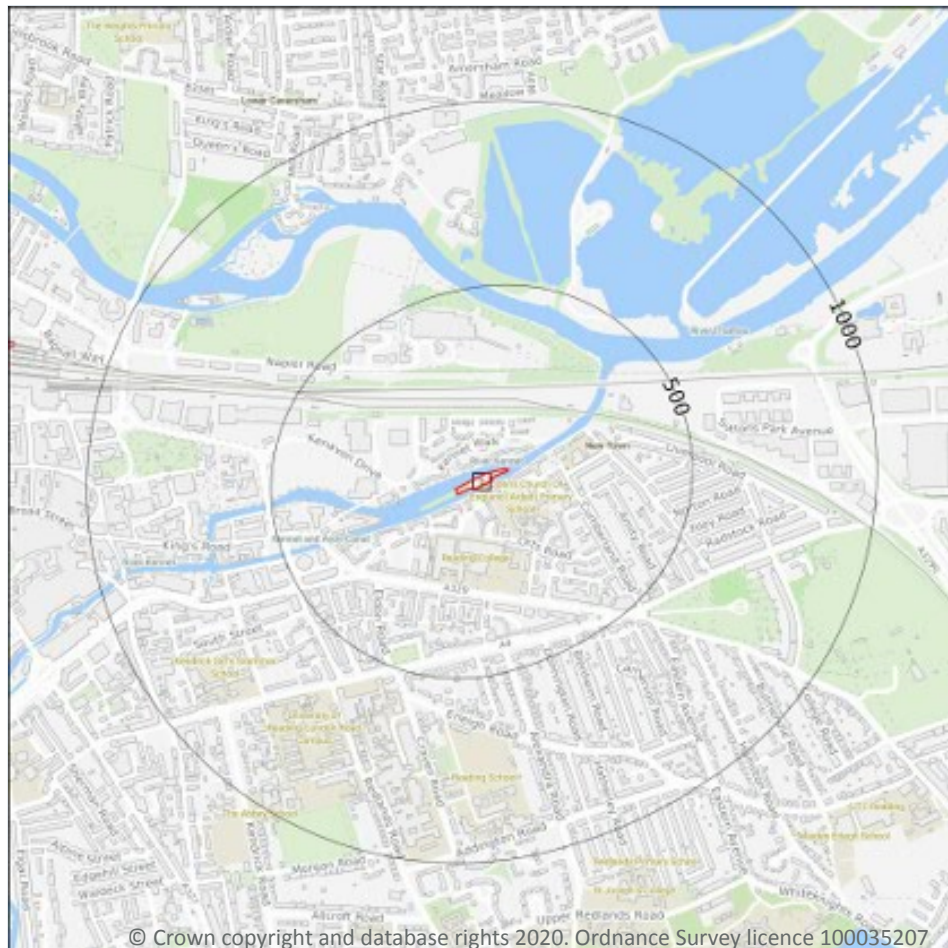
0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- ☐ Geological map tile

15.1 50k Availability

Records within 500m

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.

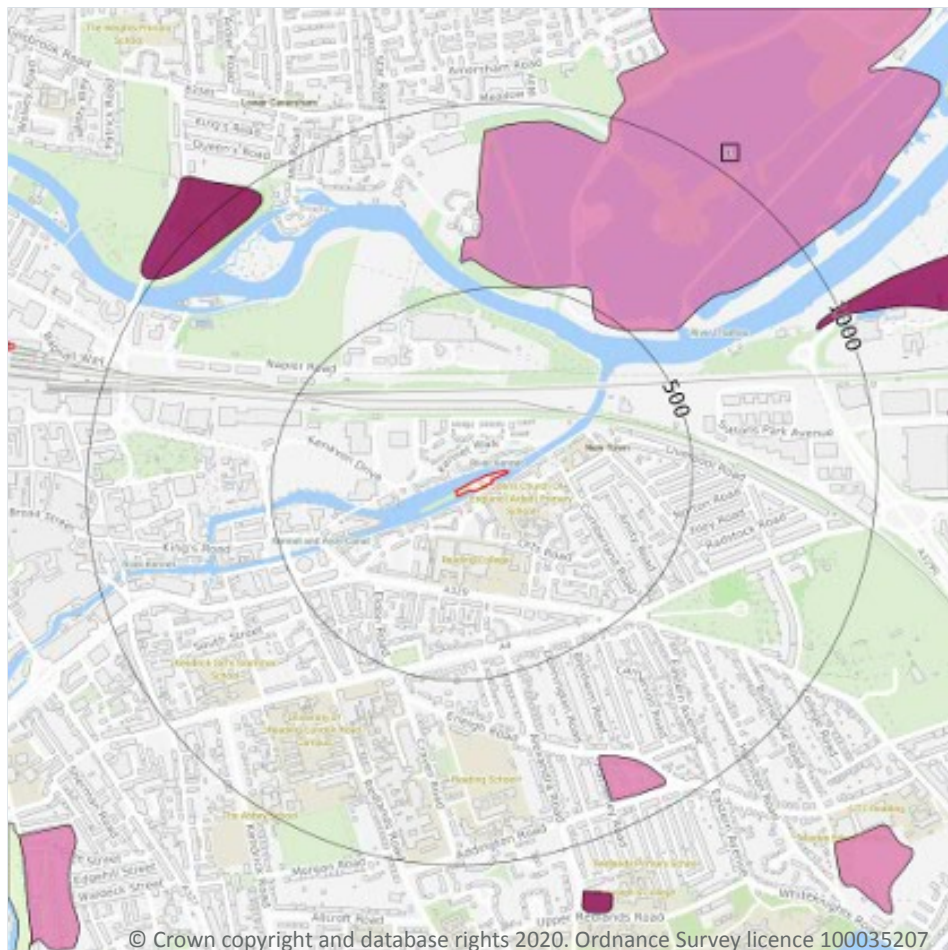
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 109**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	EW268_reading_v4

This data is sourced from the British Geological Survey.



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



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

15.2 Artificial and made ground (50k)

Records within 500m

1

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 110**

ID	Location	LEX Code	Description	Rock description
1	474m NE	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

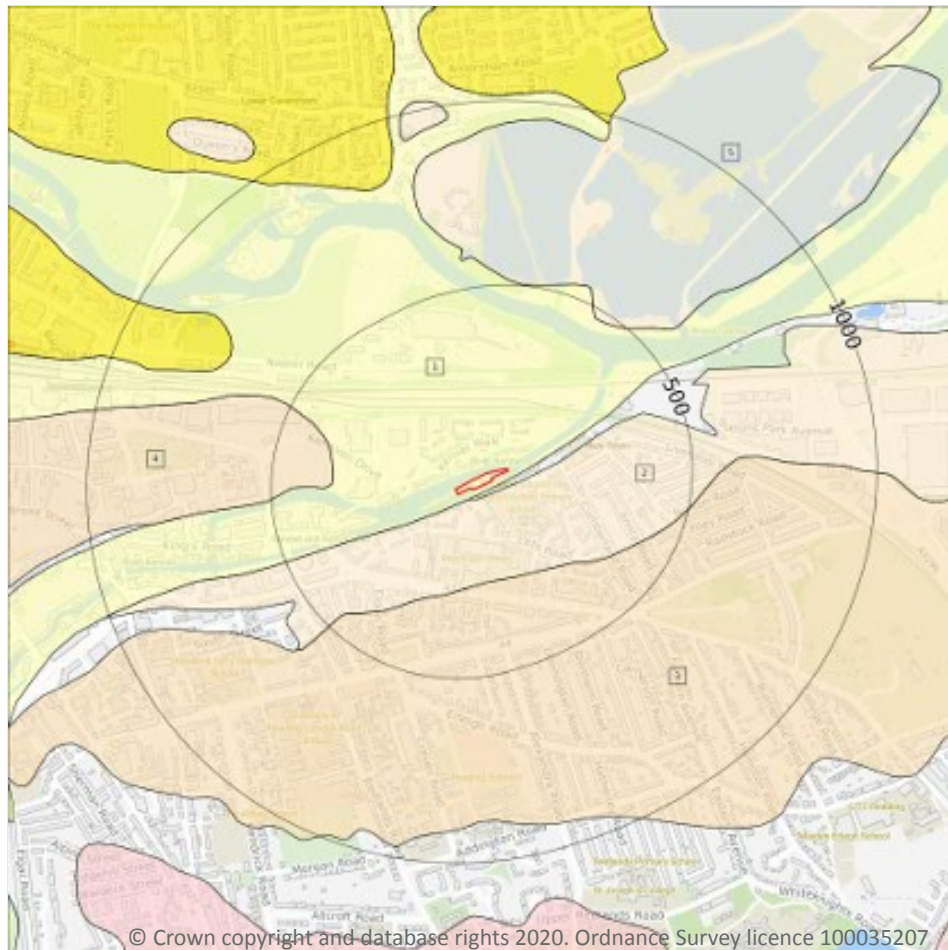
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

5

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 112**

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	24m SE	KPGR-XSV	KEMPTON PARK GRAVEL MEMBER	SAND AND GRAVEL
3	251m S	TPGR-XSV	TAPLOW GRAVEL MEMBER	SAND AND GRAVEL
4	333m W	TPGR-XSV	TAPLOW GRAVEL MEMBER	SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
5	474m NE	KPGR-XSV	KEMPTON PARK GRAVEL MEMBER	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

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	Intergranular	High	Very Low
24m E	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

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

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

This data is sourced from the British Geological Survey.

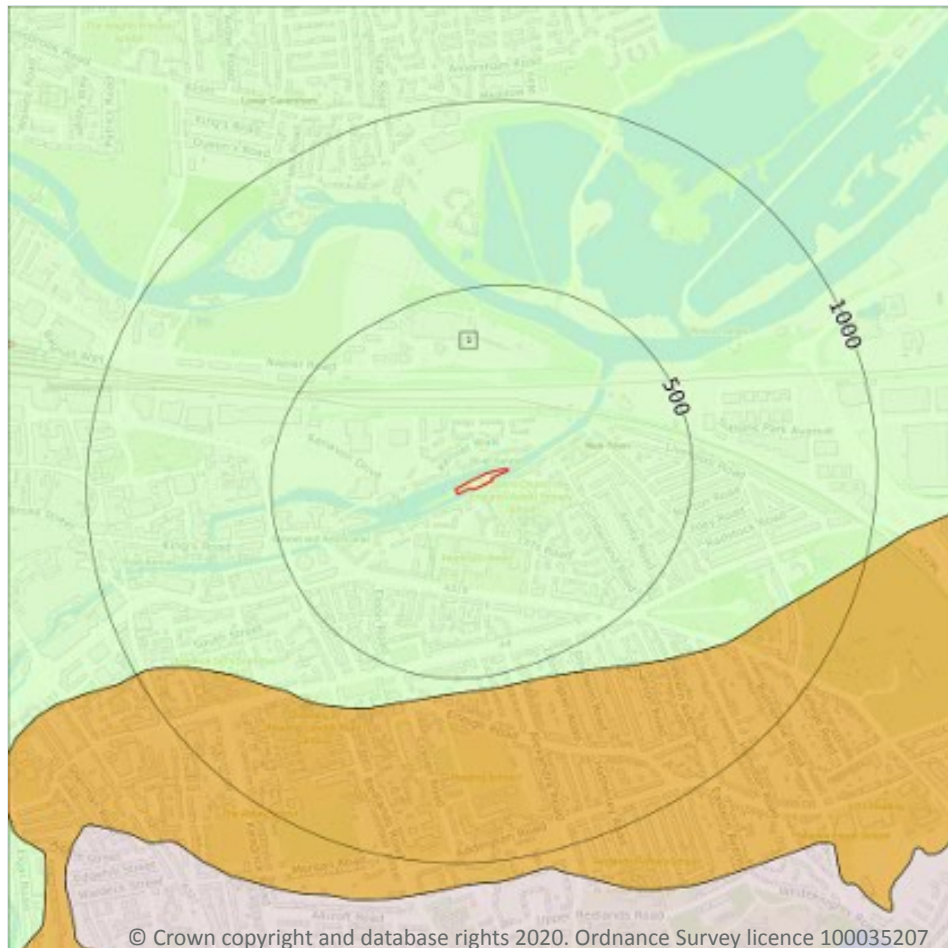
15.7 Landslip permeability (50k)

Records within 50m	0
---------------------------	----------

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

15.8 Bedrock geology (50k)

Records within 500m

1

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 114**

ID	Location	LEX Code	Description	Rock age
1	On site	SNCK-CHLK	SEAFORD CHALK FORMATION AND NEWHAVEN CHALK FORMATION (UNDIFFERENTIATED) - CHALK	CONIACIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

1

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

Location	Flow type	Maximum permeability	Minimum permeability
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

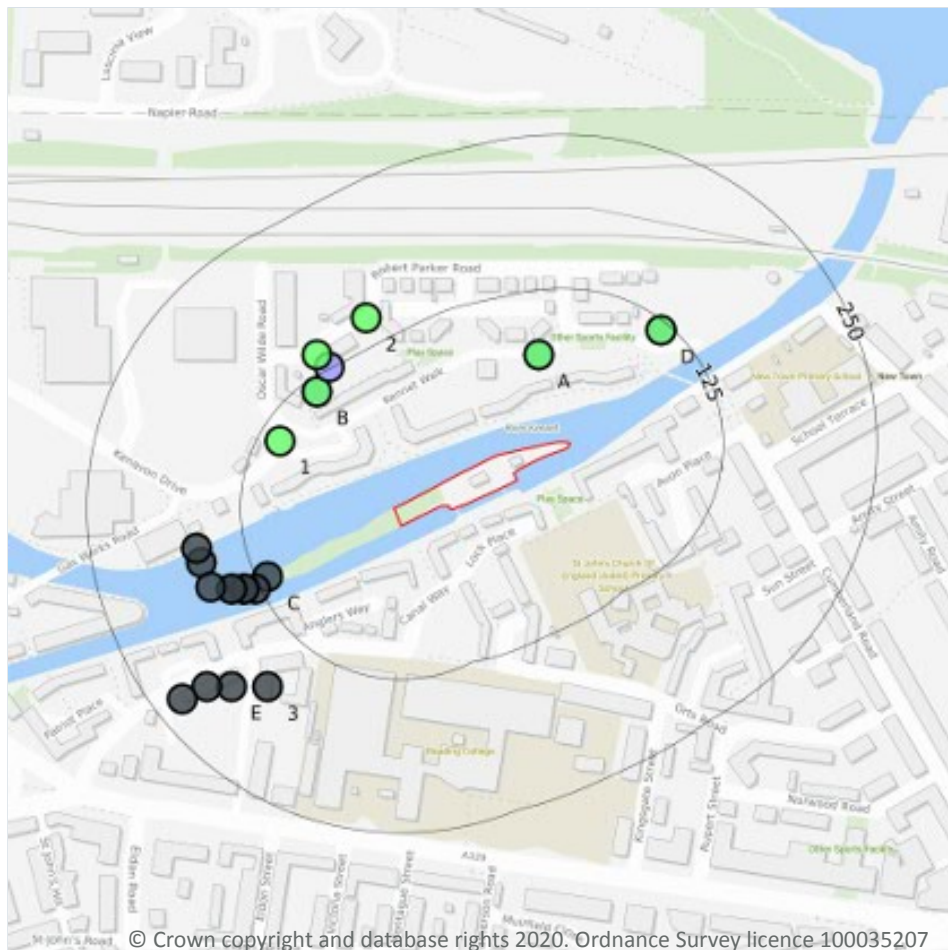
0

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



— Site Outline
Search buffers in metres (m)

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

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16.1 BGS Boreholes

Records within 250m

25

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 116**

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	72m N	472780 173650	KENARVON DRIVING 2A	6.7	N	428241
A	72m N	472780 173650	KENARVON DRIVING 2B	15.0	N	428242
1	108m NW	472570 173580	READING GAS WORKS A	15.45	N	428235

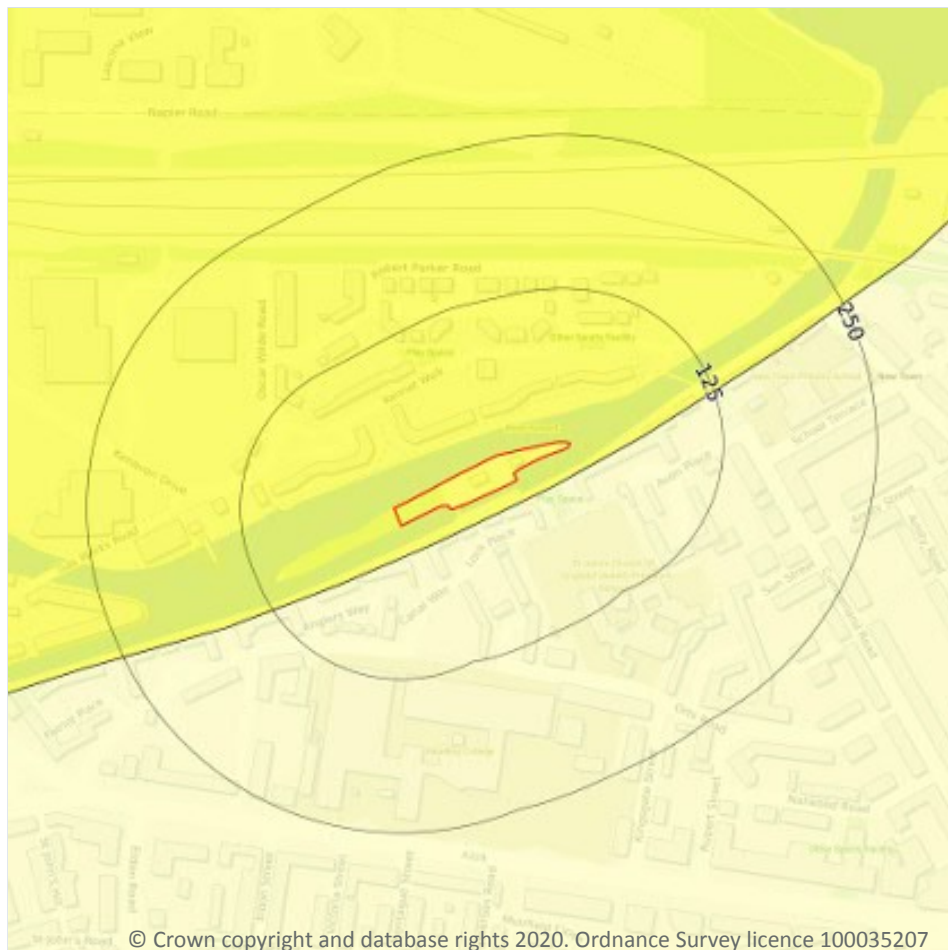


ID	Location	Grid reference	Name	Length	Confidential	Web link
B	114m NW	472600 173620	KENARVON DRIVING 1A	6.0	N	428239
B	114m NW	472600 173620	KENARVON DRIVING 1B	14.0	N	428240
C	116m SW	472560 173470	BLAKES PADDLE AND RYMER WEIR RIVER KENNET WS13	-	Y	N/A
D	118m NE	472880 173670	KENARVON DRIVING 3A	5.6	N	428243
D	118m NE	472880 173670	KENARVON DRIVING 3B	14.5	N	428244
B	126m NW	472610 173640	READING GAS WORKS C	6.0	N	428237
C	129m SW	472550 173460	BLAKES PADDLE AND RYMER WEIR RIVER KENNET WS1	-	Y	N/A
C	138m SW	472540 173460	BLAKES PADDLE AND RYMER WEIR RIVER KENNET WS15	-	Y	N/A
C	138m SW	472540 173460	BLAKES PADDLE AND RYMER WEIR RIVER KENNET WS14	-	Y	N/A
C	138m SW	472540 173460	BLAKES PADDLE AND RYMER WEIR RIVER KENNET WS11	-	Y	N/A
C	138m SW	472540 173460	BLAKES PADDLE AND RYMER WEIR RIVER KENNET WS12	-	Y	N/A
B	140m NW	472600 173650	READING GAS WORKS D	12.0	N	428238
2	147m NW	472640 173680	READING GAS WORKS B	15.0	N	428236
C	147m SW	472530 173460	BLAKES PADDLE AND RYMER WEIR RIVER KENNET WS2A	-	Y	N/A
C	147m SW	472530 173460	BLAKES PADDLE AND RYMER WEIR RIVER KENNET WS10	-	Y	N/A
C	163m W	472506 173481	BLAKES BUCK WEIR RIVER KENNET WS 4	-	Y	N/A
C	163m W	472513 173461	BLAKES BUCK WEIR RIVER KENNET WS 6	-	Y	N/A
C	164m W	472502 173493	BLAKES BUCK WEIR RIVER KENNET WS 2	-	Y	N/A
3	170m SW	472560 173380	ORTS ROAD READING 1	-	Y	N/A
E	191m SW	472530 173380	ORTS ROAD READING 2	-	Y	N/A
E	206m SW	472510 173380	ORTS ROAD READING 3	-	Y	N/A
E	228m SW	472490 173370	ORTS ROAD READING 4	-	Y	N/A

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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

17.1 Shrink swell clays

Records within 50m

2

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

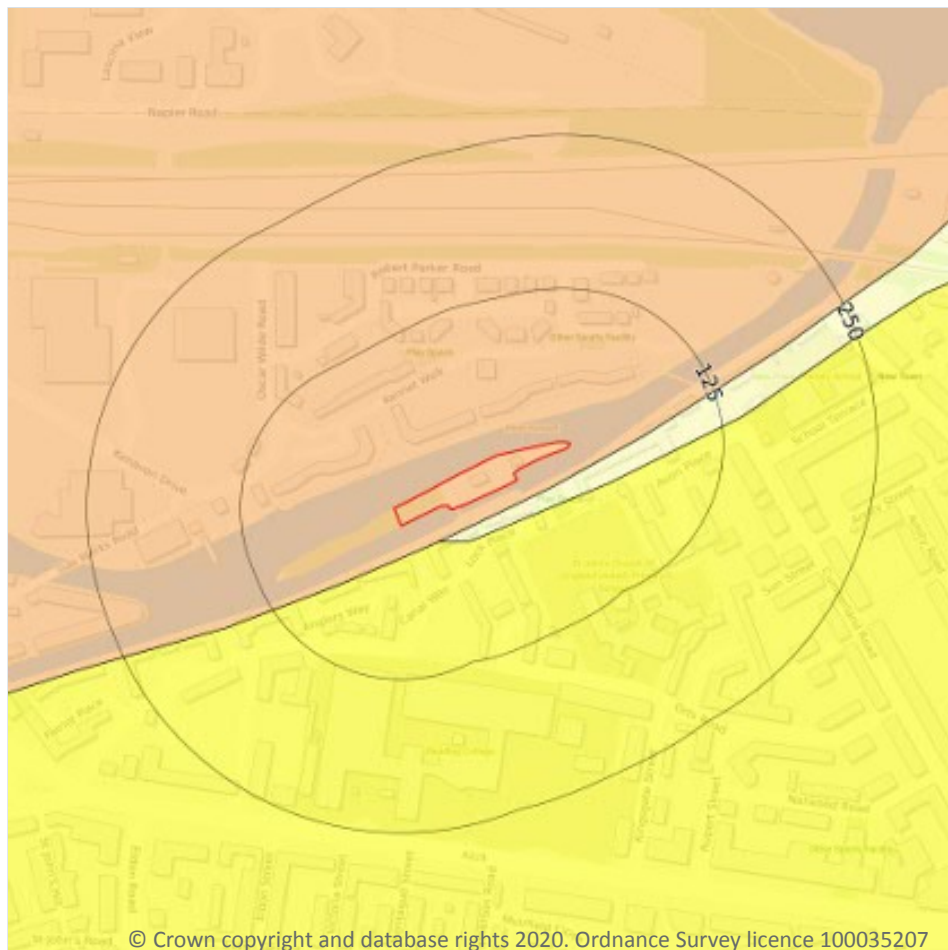
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 118**

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.
17m SE	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

3

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

Features are displayed on the Natural ground subsidence - Running sands map on **page 119**

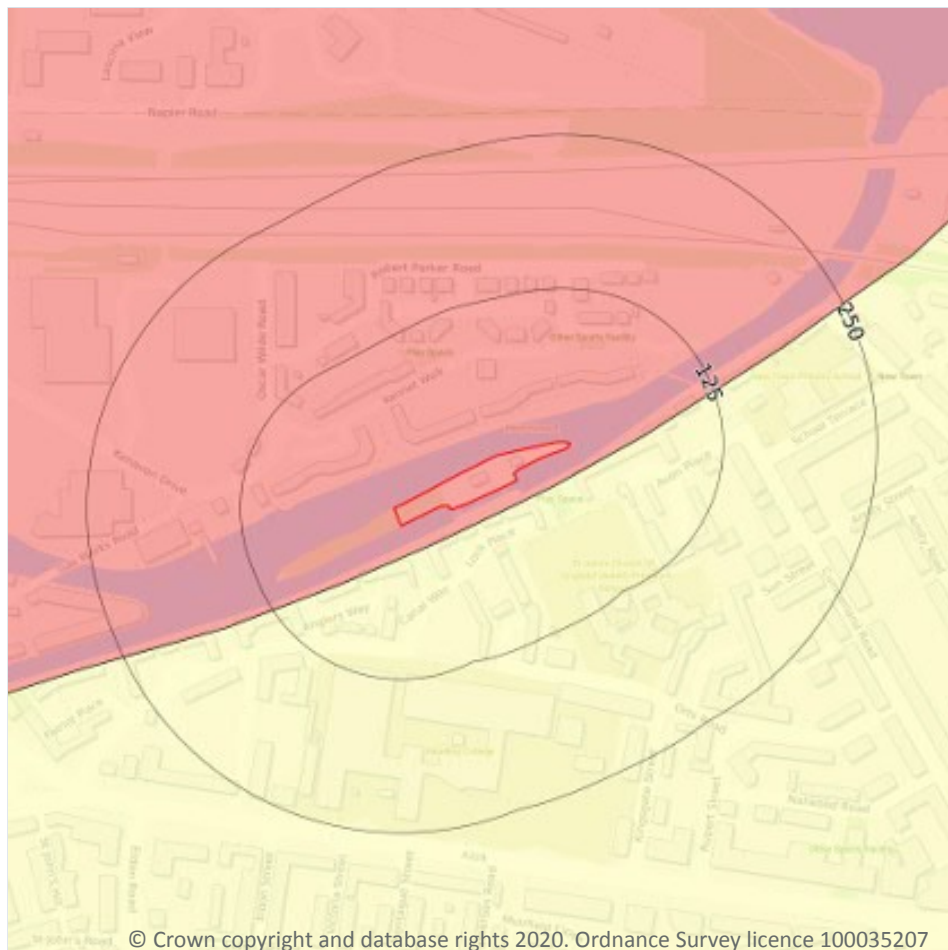
Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

Location	Hazard rating	Details
17m SE	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.
24m SE	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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

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17.3 Compressible deposits

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 121**

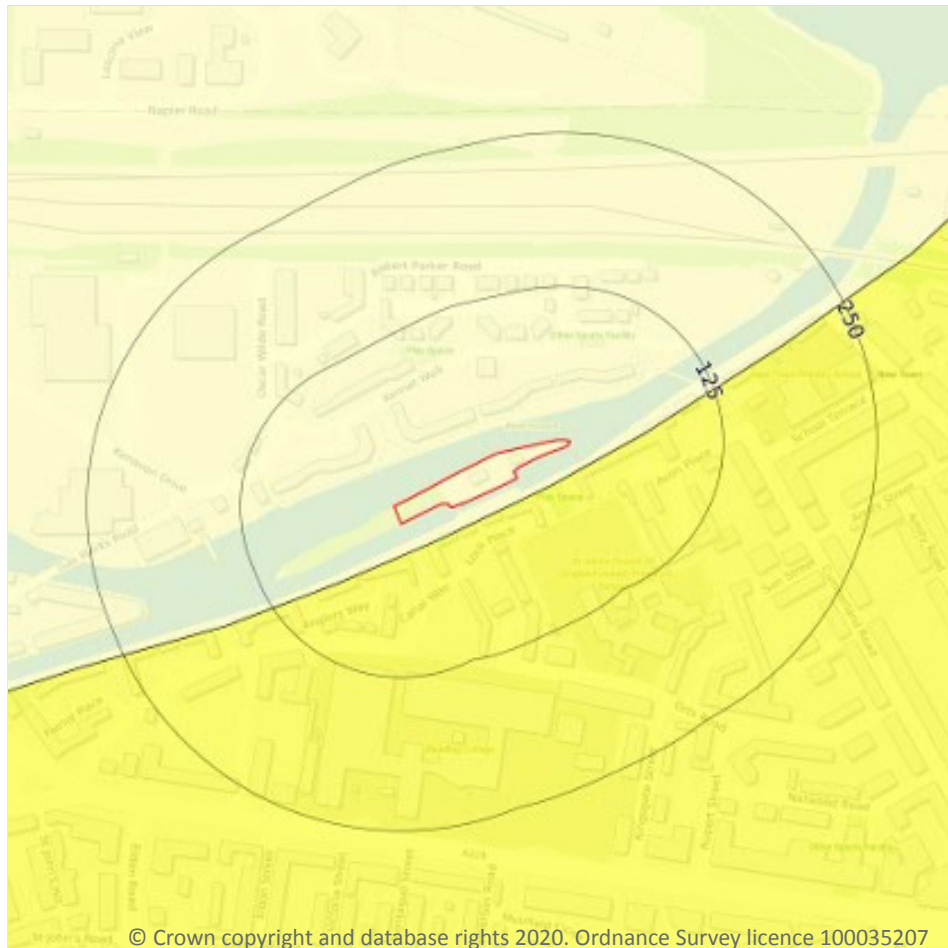
Location	Hazard rating	Details
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
17m SE	Negligible	Compressible strata are not thought to occur.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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

17.4 Collapsible deposits

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 123**

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
17m SE	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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

17.5 Landslides

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Landslides map on **page 124**

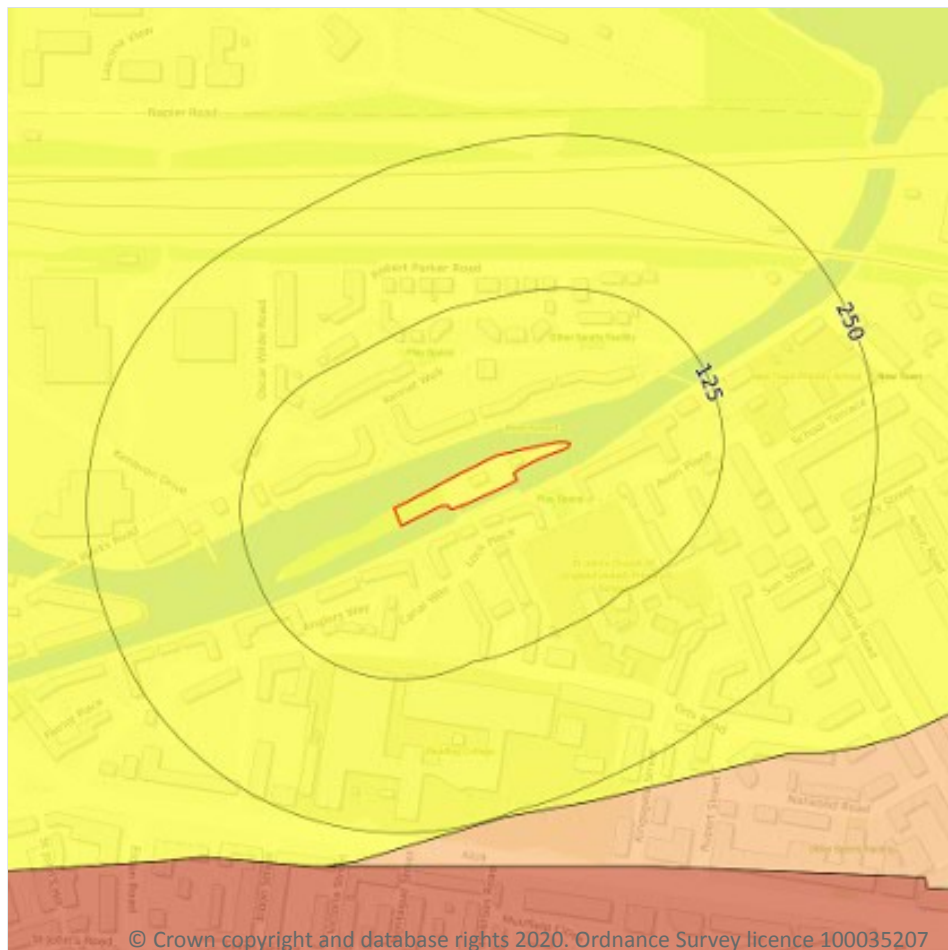
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
17m SE	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.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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

17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

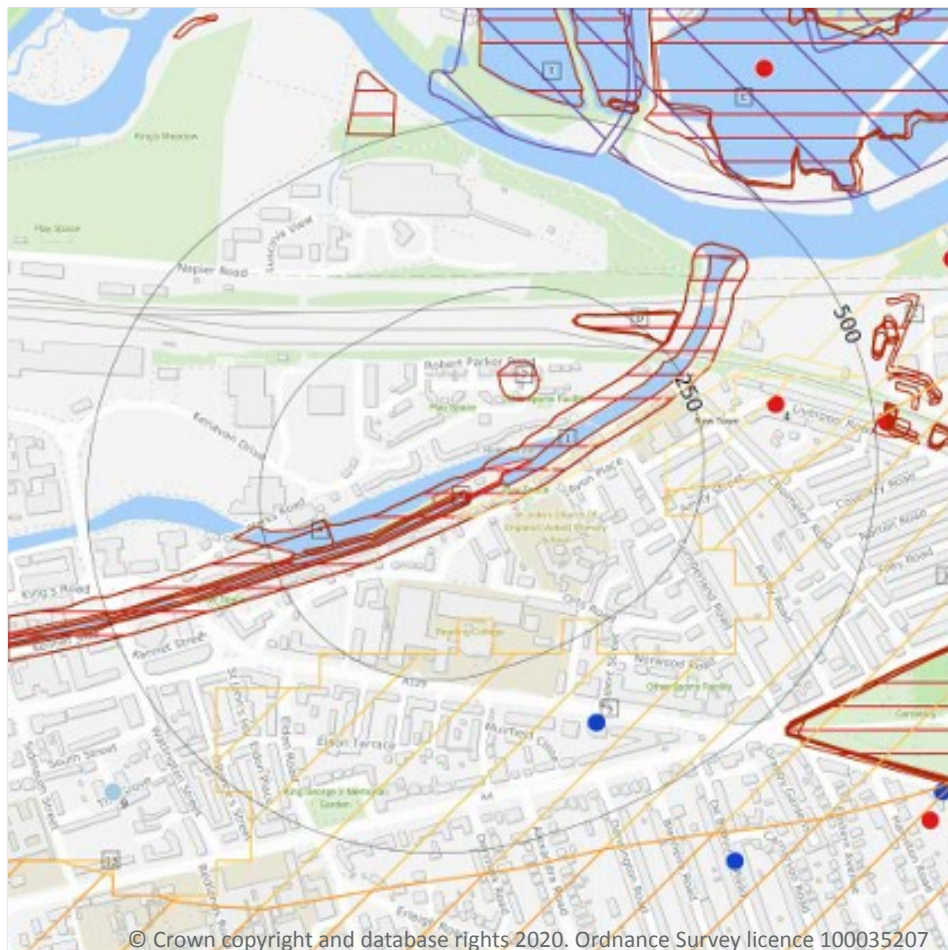
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 126**

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.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



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

18.1 Natural cavities

Records within 500m

1

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 128**

ID	Location	Details	Source
5	373m SE	Type: Solution Pipe x 3 Superficial Geology: Taplow Gravel Bedrock Geology: Chalk Group	Simple Bibliography: Reading Reference Library Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely

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

18.2 BritPits

Records within 500m

1

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 128**

ID	Location	Details	Description
4	363m E	Name: Cholmelly Road Gravel Pit Address: New Town, READING, Berkshire Commodity: Gravel Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

10

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 128**

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Canal	1938	1:10560
A	On site	Canal	1938	1:10560
A	On site	Canal	1933	1:10560
B	On site	Canal	1994	1:10000
B	On site	Canal	1989	1:10000
2	87m N	Unspecified Heap	1933	1:10560
D	207m N	Unspecified Pit	1971	1:10000
D	208m N	Unspecified Pit	1989	1:10000
D	208m N	Unspecified Pit	1977	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
D	208m N	Unspecified Pit	1962	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	0
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Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	2
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Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

Features are displayed on the Mining, ground workings and natural cavities map on **page 128**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
E	446m NE	Lowfield Farm	Sand and gravel	Surface mineral working	Valid	31/12/58
F	450m N	Lowfield Farm	Sand and gravel	Surface mineral working	Withdrawn	06/09/57

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	8
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The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining, ground workings and natural cavities map on **page 128**

ID	Location	Name	Commodity	Class	Likelihood
C	17m SE	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
3	164m S	Not available	Chalk	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
8	535m S	Not available	Chalk	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
13	693m SW	Not available	Chalk	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	763m W	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
-	812m SW	Not available	Chalk	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	813m W	Not available	Chalk	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	964m E	Not available	Chalk	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

2

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 128**



ID	Location	Mine Address	Mineral	Data source	Publisher
9	623m SW	Reading, Berkshire	Chalk	-	PhD Thesis, University of Reading
-	950m SW	'Jubilee Square', Reading, Berkshire	Chalk	-	PhD Thesis, University of Reading

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

18.8 JPB mining areas

Records on site

1

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

Location	Details
On site	Whilst outside of an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property. Further details and a quote for services can be obtained by emailing this report to enquiries.gs@jpb.co.uk .

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site

0

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

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site

0

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

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

18.11 Gypsum areas

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

This data is sourced from British Gypsum.

18.12 Tin mining

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

This data is sourced from Mining Searches UK.

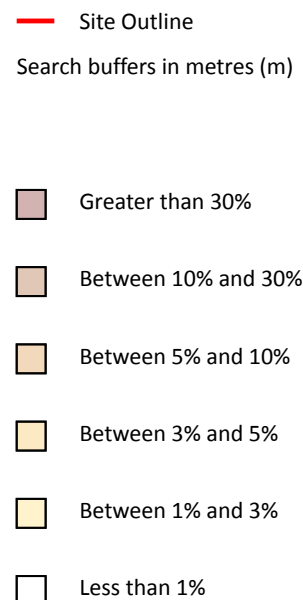
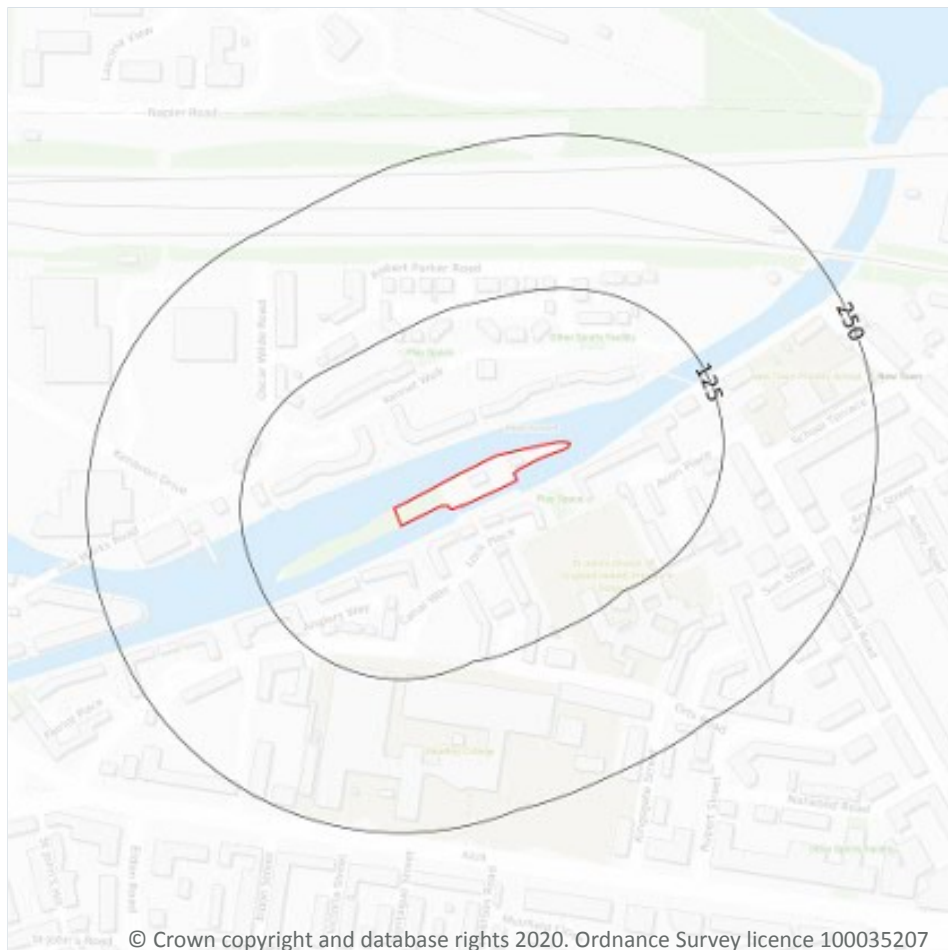
18.13 Clay mining

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

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

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

19 Radon



19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 134**

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

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



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

6

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
11m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
17m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
24m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
24m S	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
29m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.



20.3 BGS Measured Urban Soil Chemistry

Records within 50m

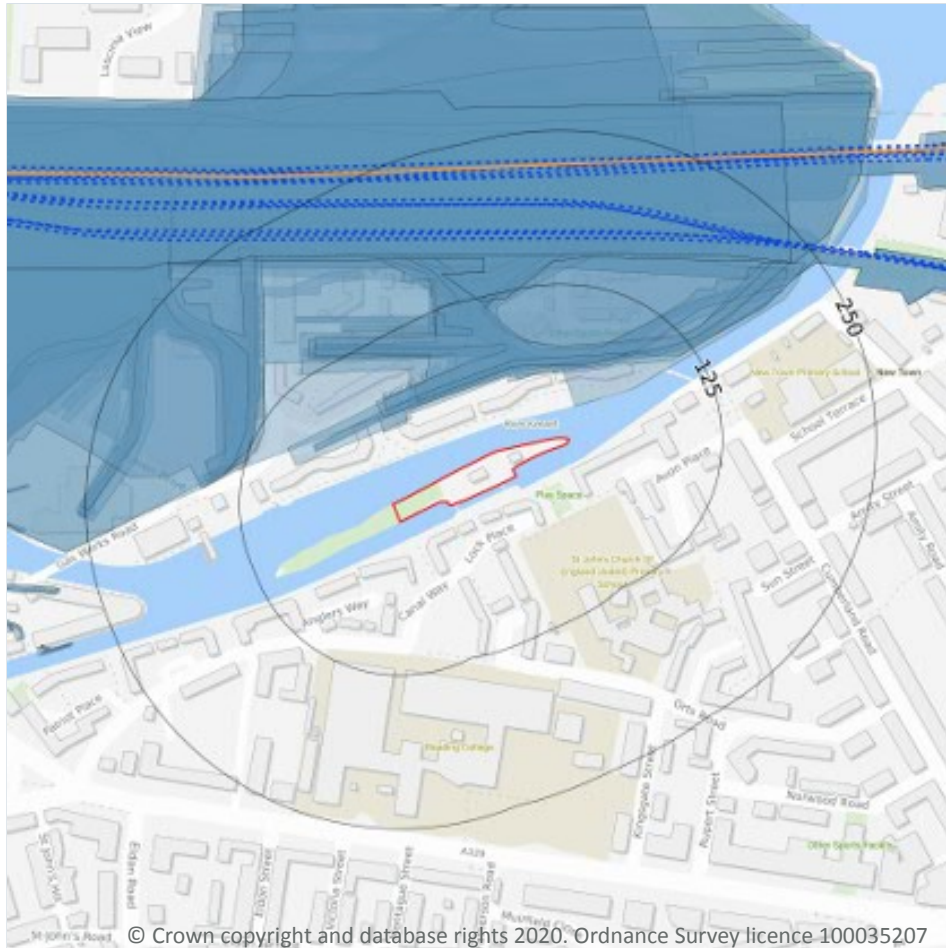
0

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

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



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

21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

43

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

Features are displayed on the Railway infrastructure and projects map on **page 137**

Location	Land Use	Year of mapping	Mapping scale
27m N	Railway Sidings	1938	10560
53m N	Railway Sidings	1898	10560
53m N	Railway Sidings	1962	10560
56m N	Railway Sidings	1938	10560
58m N	Railway Sidings	1899	2500
58m N	Railway Sidings	1912	2500
59m N	Railway Sidings	1956	2500
59m N	Railway Sidings	1956	1250
60m N	Railway Sidings	1913	10560
60m N	Railway Sidings	1932	2500
65m N	Railway Sidings	1933	10560
105m N	Railway	1932	-
109m NW	Railway Sidings	1900	2500
109m NW	Railway Sidings	1912	2500
109m NW	Railway Sidings	1931	2500
120m N	Railway Sidings	1977	10000
120m N	Railway Sidings	1971	10000



Location	Land Use	Year of mapping	Mapping scale
124m W	Railway Sidings	1913	10560
126m W	Railway Sidings	1933	10560
126m NW	Railway Sidings	1900	2500
129m W	Railway Sidings	1912	2500
129m W	Railway Sidings	1931	2500
133m W	Railway Sidings	1898	10560
138m N	Railway	1899	-
138m N	Railway	1879	-
139m NW	Railway Sidings	1956	1250
146m N	Railway Sidings	1972	1250
148m N	Railway Sidings	1983	1250
148m N	Railway Sidings	1989	1250
148m N	Railway Sidings	1992	1250
149m N	Railway Sidings	1994	10000
149m N	Railway Sidings	1989	10000
170m N	Railway Sidings	1983	1250
170m N	Railway Sidings	1989	1250
170m N	Railway Sidings	1992	1250
174m NW	Railway Sidings	1931	2500
215m W	Railway Sidings	1956	1250
244m N	Railway Sidings	1899	2500
244m N	Railway Sidings	1912	2500
244m N	Railway Sidings	1932	2500
246m N	Railway Sidings	1972	1250
247m N	Railway Sidings	1956	1250
247m N	Railway Sidings	1956	2500

This data is sourced from Ordnance Survey/Groundsure.



21.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

18

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on **page 137**

Location	Name	Type
163m N	Waterloo to Reading Line	rail
166m N	Waterloo to Reading Line	rail
168m N	Not given	Multi Track
189m N	-	rail
190m N	Not given	Multi Track
193m N	-	rail
213m N	Great Western Main Line	rail
217m N	Great Western Main Line	rail
218m NE	Not given	Multi Track
220m N	Not given	Multi Track
221m N	Not given	Multi Track
221m N	Great Western Main Line	rail



Location	Name	Type
221m N	Great Western Main Line	rail
226m N	Great Western Main Line	rail
226m N	Great Western Main Line	rail
233m NE	Not given	Multi Track
245m N	Great Western Main Line	rail
248m NE	Waterloo to Reading Line	rail

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

1

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

Features are displayed on the Railway infrastructure and projects map on **page 137**

Location	Route Type
222m N	Surface Alignment

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

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



This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

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



21 APPENDIX 4 – NEAREST BOREHOLE LOG

Eastern L.S. Thomas NRA
Reading Gasworks, Bore 2 A.
Kenavon Drive, Rosehaugh (shallow)

5077SW 89 7278-7365

268 SU 77/171 C 5077SW

client: Montague Evans Licence No. Nat. Grid Ref. SU 7278 7365

IGS Ref. No. Status

Sound Level 37.39 m OD ft. OD

Level of Well Top 38.69 m OD ft. OD

Water Level 2.46 m bwt ft. bwt

Static 34.93 m OD ft. OD

Instruction 13/12/90 18/01/13

Depth bwt Dia. Linings (below well top)

From	To	Dia.	Type
0	4.7 M	200 mm	Plain Pipe
4.7	6.7	"	slotted Pipe
0	4.5	"	Bentonite
4.5	6.7	"	Gravel

British Geological Survey

Stratification Rates Type of Pump

gph Chem./Bact. Anal. YES NO

gpd Well Driller

Insufficient space has been allowed, continue in 'Notes' overleaf.

Site Plan

Notes

BOREHOLE 2 SHALLOW

DATE: 13/12/90

BY: [Signature]

DESCRIPTION

1.0 - 1.5 m: Made Ground

1.5 - 2.5 m: Alluvium

2.5 - 3.5 m: Valley Gravel (sand)

22 APPENDIX 5 – SITE PHOTOGRAPHY





23 APPENDIX 6 - RISK ASSESSMENT METHODOLOGY

- Severity considers the potential impact of the linkage on the receptors, if the linkage was active. Categories range from slight/superficial to fatal.
- Likelihood considers the chances of the linkage occurring and is classified into categories from improbable to frequent.

By assigning scores with each of the above categories, the risk assessment can be undertaken using the formula:

$$\text{RISK} = \text{LIKELIHOOD} \times \text{SEVERITY}$$

The matrix given in Table 15 provides a means of calculating the overall risk; while Table 16 provides the qualitative assessment based on the risk score.

Table 15: Contamination Risk Matrix

		Potential Severity				
		Fatal 5	Major 4	Moderate 3	Minor 2	Slight 1
Probable Likelihood	Frequent 5	Very High	High	Moderate	Low - Moderate	Low
	Probable 4	High	High	Moderate	Low - Moderate	Low
	Possible 3	Moderate	Moderate	Low - Moderate	Low - Moderate	Very Low
	Remote 2	Low - Moderate	Low - Moderate	Low - Moderate	Low	Very Low
	Improbable 1	Low	Low	Very Low	Very Low	Very Low

Table 16: Assessment description for risk scores

Risk Score	Risk Assessment
1-3	Very Low
3-5	Low
6-10	Low to Moderate
11-15	Moderate
16-20	High
21-25	Very High

Table 17: Risk Classification System

Risk Term	Description
Very Low to Low	The presence of an identified hazard does not give rise to the potential to cause significant harm to a designated receptor. In the event of such harm being realized, it is not likely to be Severe.
Low to Moderate	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realized, would at worst normally be mild.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
High	Harm is likely to arise to a designated receptor from an identified hazard at the site without appropriate remedial action. Investigation is required and remedial works may be necessary in the short term and are likely over the longer term.
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, or, there is an evidence that severe harm to a designated receptor is currently happening. Urgent investigation and remediation are likely to be required.

24 ABBREVIATIONS

Abbreviation	Description
AONB	Areas of Outstanding Natural Beauty
c.	circa
CLRA	Contaminated Land Risk Assessment
COMAH	Control of Major Accident Hazards
CSM	Conceptual Site Risk Model
EA	Environment Agency
IPC	Integrated Pollution Control
IPPC	Integrated Pollution Prevention Control
LAPC	Local Authority Pollution Control
LNR	Local Nature Reserves
NIHHS	Notification of Installations Handling Hazardous Substances
NNR	National Nature Reserves
NP	National Parks
NPPF	National Planning Policy Framework
OS	Ordnance Survey
PAHs	Polycyclic Aromatic Hydrocarbons
Part IIA	Part IIA of the Environmental Protection. Act 1990
PCBs	Polychlorinated Biphenyls
PCLU	Potentially Contaminative Land Use
PPL	Potential Pollutant Linkage
PSPPL	Potentially Significant Potential Pollutant Linkage
SAC	Special Areas of Conservation
SI	Site Investigation
SPA	Special Protection Area
SPOSH	Significant Possibility of Significant Harm
SSSIs	Sites of Special Scientific Interest
TPHs	Total Petroleum Hydrocarbons
UXO	Unexploded Ordnance