

Site Details:

389 Gosbrook Road,
Caversham, Reading, RG4 8ED

Client Ref: 34084
Report Ref: GS-7282516
Grid Ref: 472377, 174533

Map Name: National Grid

Map date: 1989-1990

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1985
Revised 1990
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1987
Revised 1989
Edition N/A
Copyright N/A
Levelled N/A

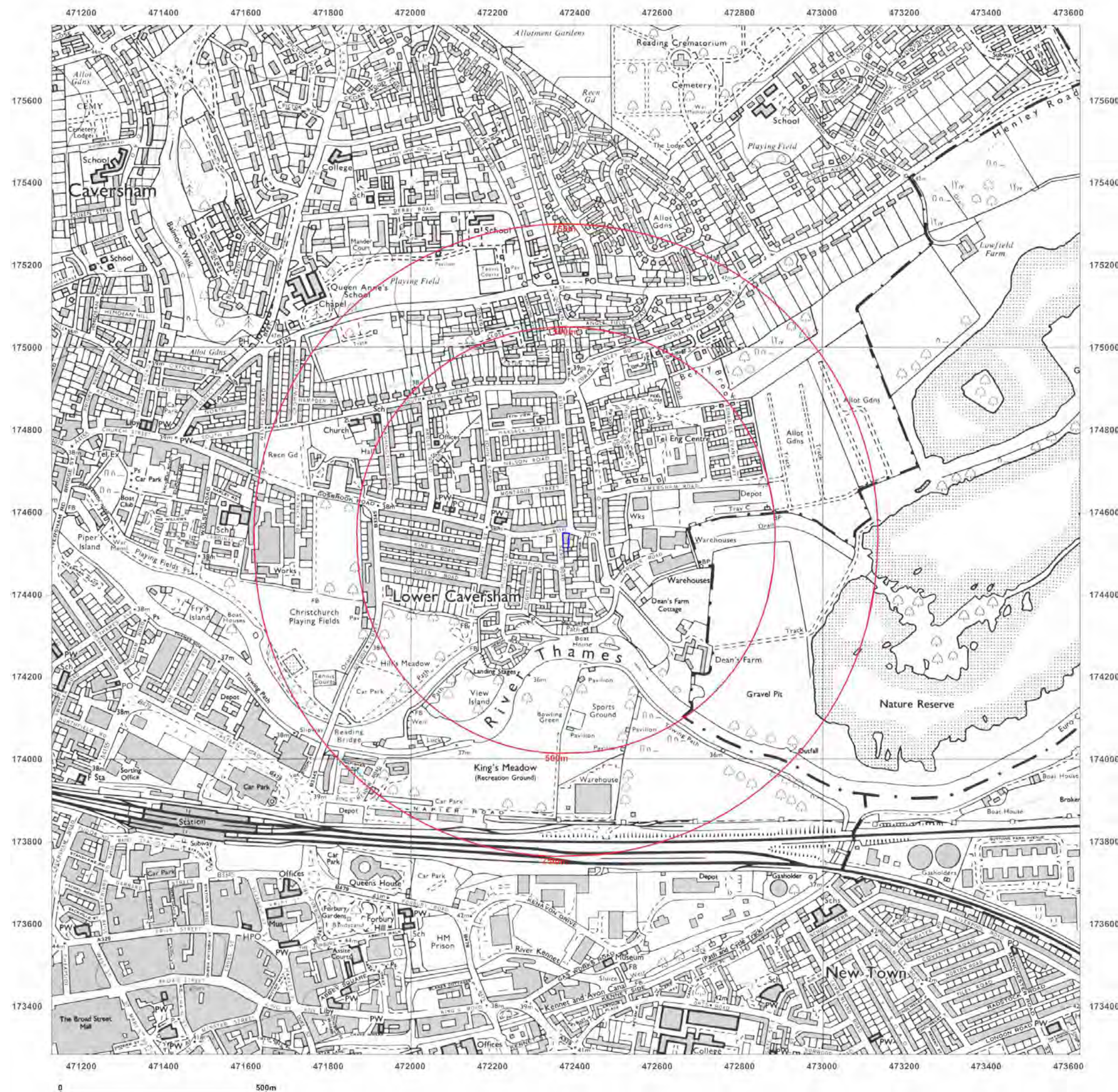


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Site Details:

389 Gosbrook Road,
Caversham, Reading, RG4 8ED

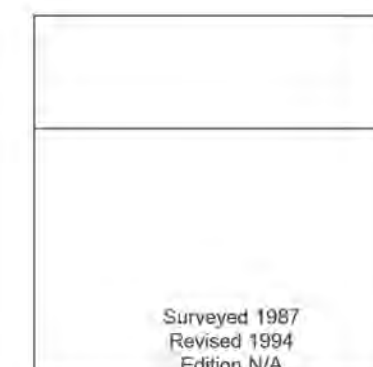
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Report Ref: GS-7282516
Grid Ref: 472377, 174533

Map Name: National Grid

Map date: 1994

Scale: 1:10,000

Printed at: 1:10,000



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Site Details:

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Client Ref: 34084
Report Ref: GS-7282516
Grid Ref: 472377, 174533

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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Site Details:

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Caversham, Reading, RG4 8ED

Client Ref: 34084
Report Ref: GS-7282516
Grid Ref: 472377, 174533

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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Site Details:

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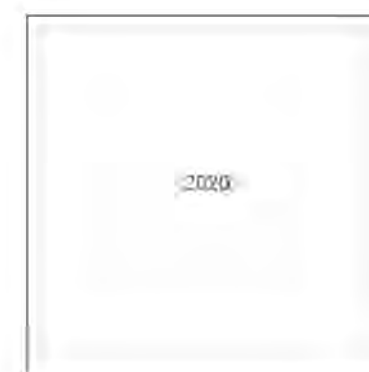
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Report Ref: GS-7282516
Grid Ref: 472377, 174533

Map Name: National Grid

Map date: 2020

Scale: 1:10,000

Printed at: 1:10,000

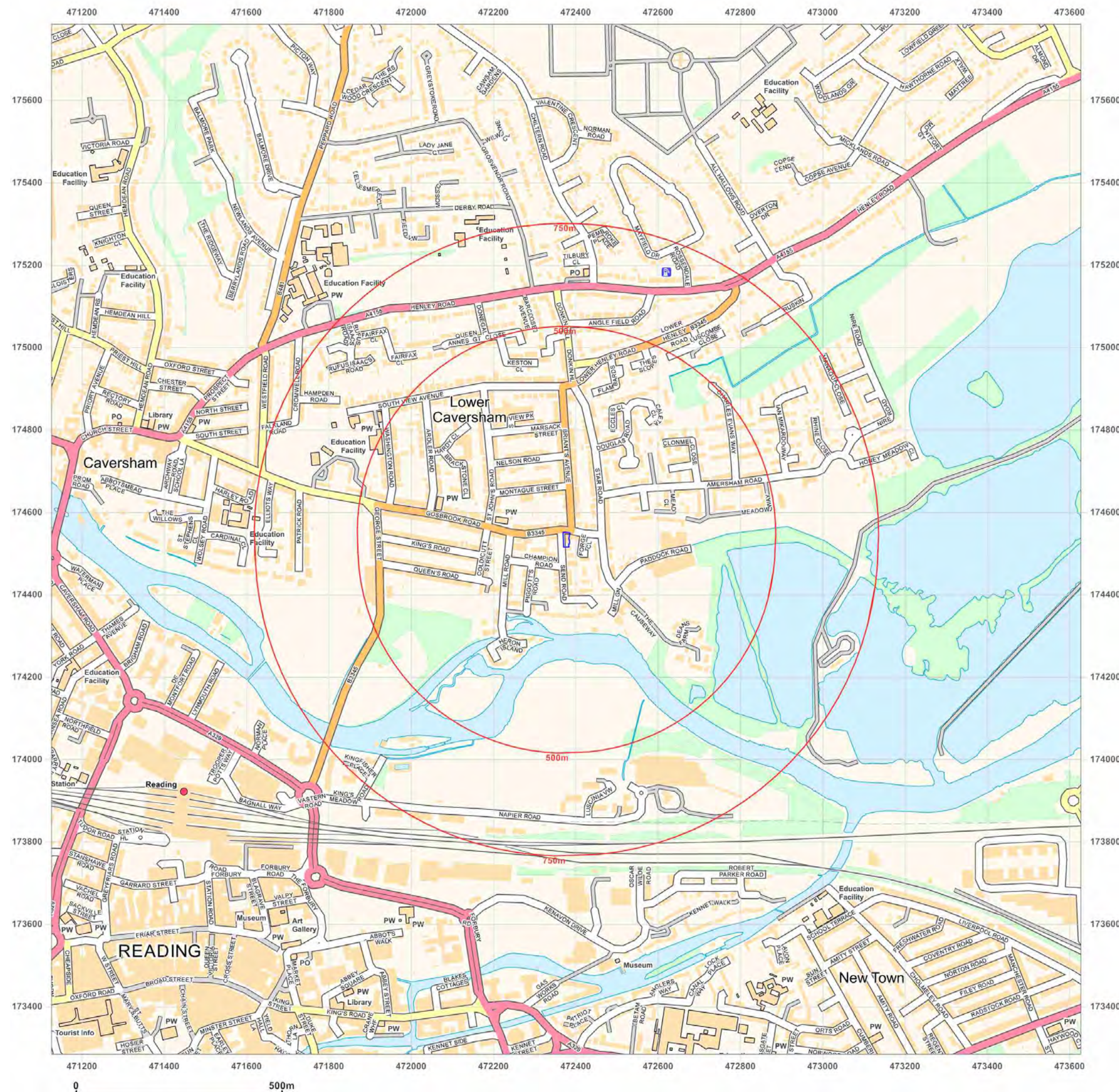


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Appendix D Groundsure Enviro/Geo-Insight Report

389 Gosbrook Road, Caversham, Reading, RG4 8ED

Order Details

Date: 16/11/2020
Your ref: 34084
Our Ref: GS-7282517
Client: Stantec UK Ltd

Site Details

Location: 472377 174529
Area: 0.05 ha
Authority: [Reading Borough Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.13

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Contact us with any questions at:

info@groundsure.com

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Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	<u>Historical industrial land uses</u>	0	0	29	18	-
16	1.2	<u>Historical tanks</u>	0	0	6	35	-
18	1.3	<u>Historical energy features</u>	0	1	6	18	-
19	1.4	Historical petrol stations	0	0	0	0	-
20	1.5	<u>Historical garages</u>	0	6	0	7	-
20	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
21	2.1	<u>Historical industrial land uses</u>	0	0	36	18	-
24	2.2	<u>Historical tanks</u>	0	0	16	64	-
27	2.3	<u>Historical energy features</u>	0	9	19	44	-
30	2.4	Historical petrol stations	0	0	0	0	-
30	2.5	<u>Historical garages</u>	0	10	0	12	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
32	3.1	Active or recent landfill	0	0	0	0	-
32	3.2	Historical landfill (BGS records)	0	0	0	0	-
33	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
33	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
33	3.5	<u>Historical waste sites</u>	0	0	1	0	-
33	3.6	Licensed waste sites	0	0	0	0	-
34	3.7	<u>Waste exemptions</u>	0	0	8	1	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
35	4.1	<u>Recent industrial land uses</u>	0	4	23	-	-
37	4.2	<u>Current or recent petrol stations</u>	0	0	0	1	-
38	4.3	Electricity cables	0	0	0	0	-
38	4.4	Gas pipelines	0	0	0	0	-
38	4.5	Sites determined as Contaminated Land	0	0	0	0	-



38	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
38	4.7	Regulated explosive sites	0	0	0	0	-
39	4.8	Hazardous substance storage/usage	0	0	0	0	-
39	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
39	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
39	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	1	2	1	-
40	4.12	Radioactive Substance Authorisations	0	0	0	0	-
40	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	3	6	-
42	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
42	4.15	Pollutant release to public sewer	0	0	0	0	-
42	4.16	List 1 Dangerous Substances	0	0	0	0	-
42	4.17	List 2 Dangerous Substances	0	0	0	0	-
42	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	2	3	-
43	4.19	Pollution inventory substances	0	0	0	0	-
43	4.20	Pollution inventory waste transfers	0	0	0	0	-
44	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
45	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
47	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
49	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
50	5.4	<u>Groundwater vulnerability- soluble rock risk</u>	Identified (within 0m)				
50	5.5	Groundwater vulnerability- local information	None (within 0m)				
51	5.6	<u>Groundwater abstractions</u>	0	0	0	1	18
56	5.7	<u>Surface water abstractions</u>	0	0	0	1	6
58	5.8	<u>Potable abstractions</u>	0	0	0	0	5
59	5.9	<u>Source Protection Zones</u>	0	0	1	0	-
60	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
61	6.1	<u>Water Network (OS MasterMap)</u>	0	0	7	-	-



62	<u>6.2</u>	<u>Surface water features</u>	0	0	1	-	-
62	<u>6.3</u>	<u>WFD Surface water body catchments</u>	1	-	-	-	-
63	<u>6.4</u>	<u>WFD Surface water bodies</u>	0	0	0	-	-
63	<u>6.5</u>	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
64	<u>7.1</u>	<u>Risk of Flooding from Rivers and Sea (RoFRaS)</u>	Medium (within 50m)				
65	<u>7.2</u>	<u>Historical Flood Events</u>	1	0	19	-	-
66	7.3	Flood Defences	0	0	0	-	-
66	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
67	7.5	Flood Storage Areas	0	0	0	-	-
68	<u>7.6</u>	<u>Flood Zone 2</u>	Identified (within 50m)				
69	<u>7.7</u>	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
70	<u>8.1</u>	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
72	<u>9.1</u>	<u>Groundwater flooding</u>	High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
73	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
74	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
74	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
74	10.4	Special Protection Areas (SPA)	0	0	0	0	0
74	10.5	National Nature Reserves (NNR)	0	0	0	0	0
75	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
75	<u>10.7</u>	<u>Designated Ancient Woodland</u>	0	0	0	0	1
75	10.8	Biosphere Reserves	0	0	0	0	0
75	10.9	Forest Parks	0	0	0	0	0
76	10.10	Marine Conservation Zones	0	0	0	0	0
76	10.11	Green Belt	0	0	0	0	0
76	10.12	Proposed Ramsar sites	0	0	0	0	0



76	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
76	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
77	10.15	Nitrate Sensitive Areas	0	0	0	0	0
77	10.16	<u>Nitrate Vulnerable Zones</u>	1	0	0	0	4
78	10.17	SSSI Impact Risk Zones	0	-	-	-	-
78	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
79	11.1	World Heritage Sites	0	0	0	-	-
80	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
80	11.3	National Parks	0	0	0	-	-
80	11.4	<u>Listed Buildings</u>	0	1	7	-	-
81	11.5	Conservation Areas	0	0	0	-	-
81	11.6	Scheduled Ancient Monuments	0	0	0	-	-
81	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
82	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
83	12.2	Open Access Land	0	0	0	-	-
83	12.3	Tree Felling Licences	0	0	0	-	-
83	12.4	Environmental Stewardship Schemes	0	0	0	-	-
83	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
84	13.1	Priority Habitat Inventory	0	0	0	-	-
84	13.2	Habitat Networks	0	0	0	-	-
84	13.3	Open Mosaic Habitat	0	0	0	-	-
84	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
85	14.1	<u>10k Availability</u>	Identified (within 500m)				
86	14.2	<u>Artificial and made ground (10k)</u>	0	0	0	3	-
87	14.3	<u>Superficial geology (10k)</u>	1	0	4	1	-



88	14.4	Landslip (10k)	0	0	0	0	-
89	14.5	<u>Bedrock geology (10k)</u>	1	0	0	1	-
90	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
91	15.1	<u>50k Availability</u>	Identified (within 500m)				
92	15.2	<u>Artificial and made ground (50k)</u>	0	0	0	2	-
93	15.3	Artificial ground permeability (50k)	0	0	-	-	-
94	15.4	<u>Superficial geology (50k)</u>	1	0	4	1	-
95	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
95	15.6	Landslip (50k)	0	0	0	0	-
95	15.7	Landslip permeability (50k)	None (within 50m)				
96	15.8	<u>Bedrock geology (50k)</u>	1	0	0	0	-
97	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
97	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
98	16.1	<u>BGS Boreholes</u>	0	0	2	-	-
Page	Section	Natural ground subsidence					
99	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
100	17.2	<u>Running sands</u>	Negligible (within 50m)				
101	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
102	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
103	17.5	<u>Landslides</u>	Very low (within 50m)				
104	17.6	<u>Ground dissolution of soluble rocks</u>	Very low (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
106	18.1	Natural cavities	0	0	0	0	-
107	18.2	<u>BritPits</u>	0	0	0	1	-
107	18.3	<u>Surface ground workings</u>	0	0	6	-	-
108	18.4	Underground workings	0	0	0	0	0
108	18.5	<u>Historical Mineral Planning Areas</u>	0	0	1	0	-



<u>108</u>	<u>18.6</u>	<u>Non-coal mining</u>	0	0	0	2	1
109	18.7	Mining cavities	0	0	0	0	0
<u>109</u>	<u>18.8</u>	<u>JPB mining areas</u>	Identified (within 0m)				
109	18.9	Coal mining	None (within 0m)				
110	18.10	Brine areas	None (within 0m)				
110	18.11	Gypsum areas	None (within 0m)				
110	18.12	Tin mining	None (within 0m)				
110	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<u>111</u>	<u>19.1</u>	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>112</u>	<u>20.1</u>	<u>BGS Estimated Background Soil Chemistry</u>	1	1	-	-	-
112	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
112	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
113	21.1	Underground railways (London)	0	0	0	-	-
113	21.2	Underground railways (Non-London)	0	0	0	-	-
113	21.3	Railway tunnels	0	0	0	-	-
113	21.4	Historical railway and tunnel features	0	0	0	-	-
113	21.5	Royal Mail tunnels	0	0	0	-	-
114	21.6	Historical railways	0	0	0	-	-
114	21.7	Railways	0	0	0	-	-
114	21.8	Crossrail 1	0	0	0	0	-
114	21.9	Crossrail 2	0	0	0	0	-
114	21.10	HS2	0	0	0	0	-



Recent aerial photograph



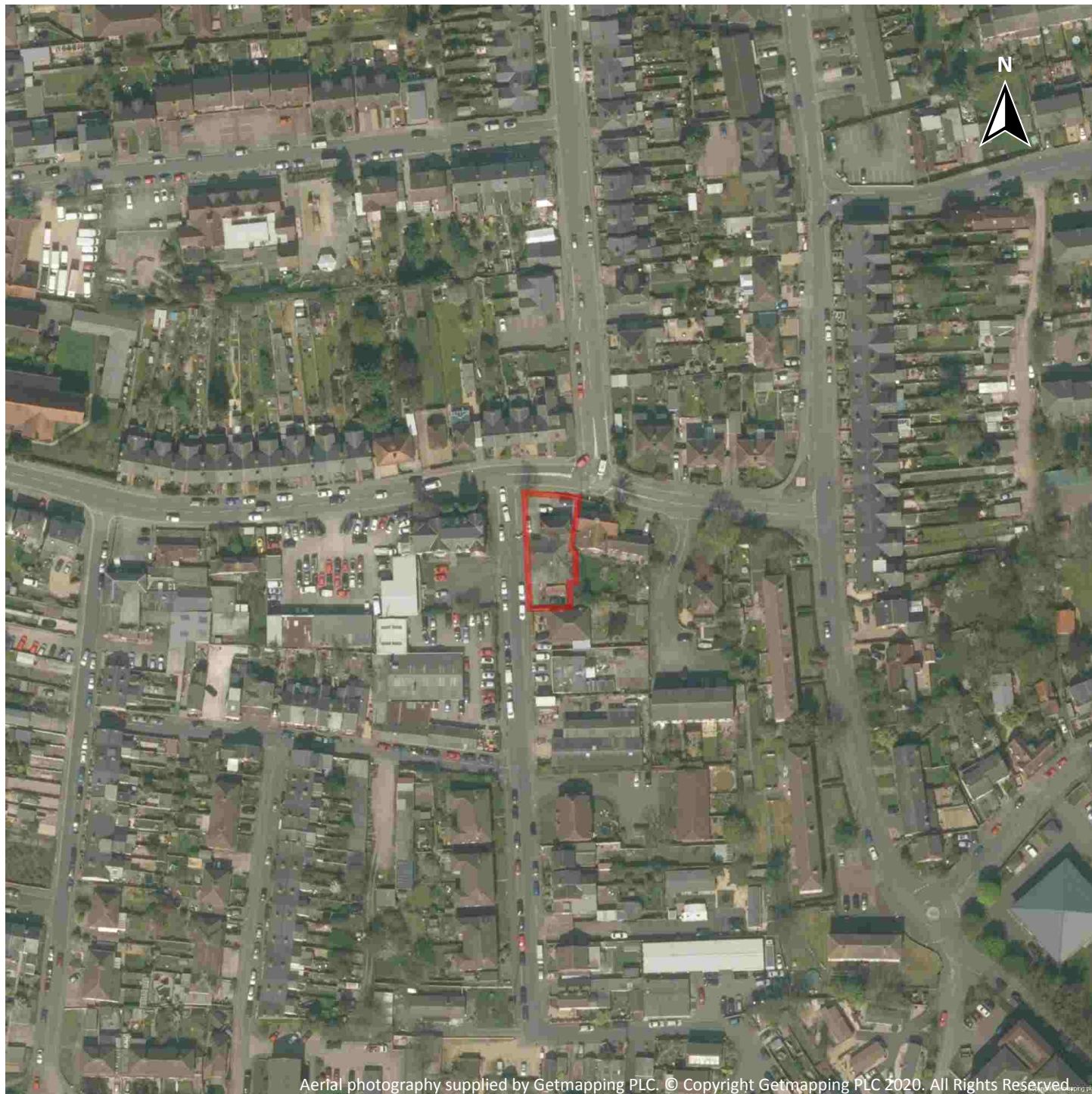
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Capture Date: 29/06/2019

Site Area: 0.05ha



Recent site history - 2015 aerial photograph



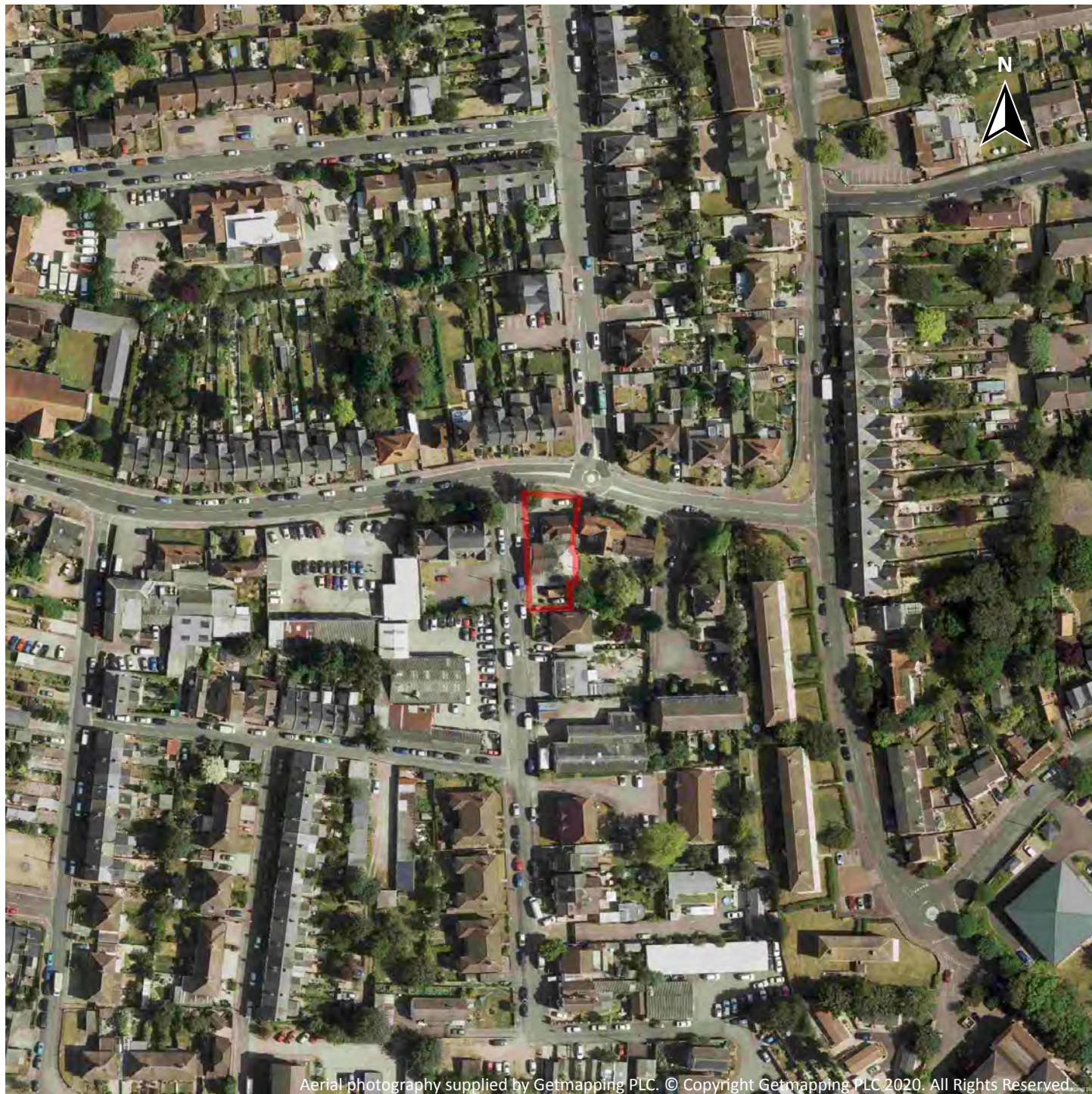
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Capture Date: 20/04/2015

Site Area: 0.05ha



Recent site history - 2013 aerial photograph



Capture Date: 08/07/2013

Site Area: 0.05ha



Recent site history - 2010 aerial photograph



Capture Date: 22/09/2010

Site Area: 0.05ha



Recent site history - 1999 aerial photograph



Capture Date: 04/09/1999

Site Area: 0.05ha



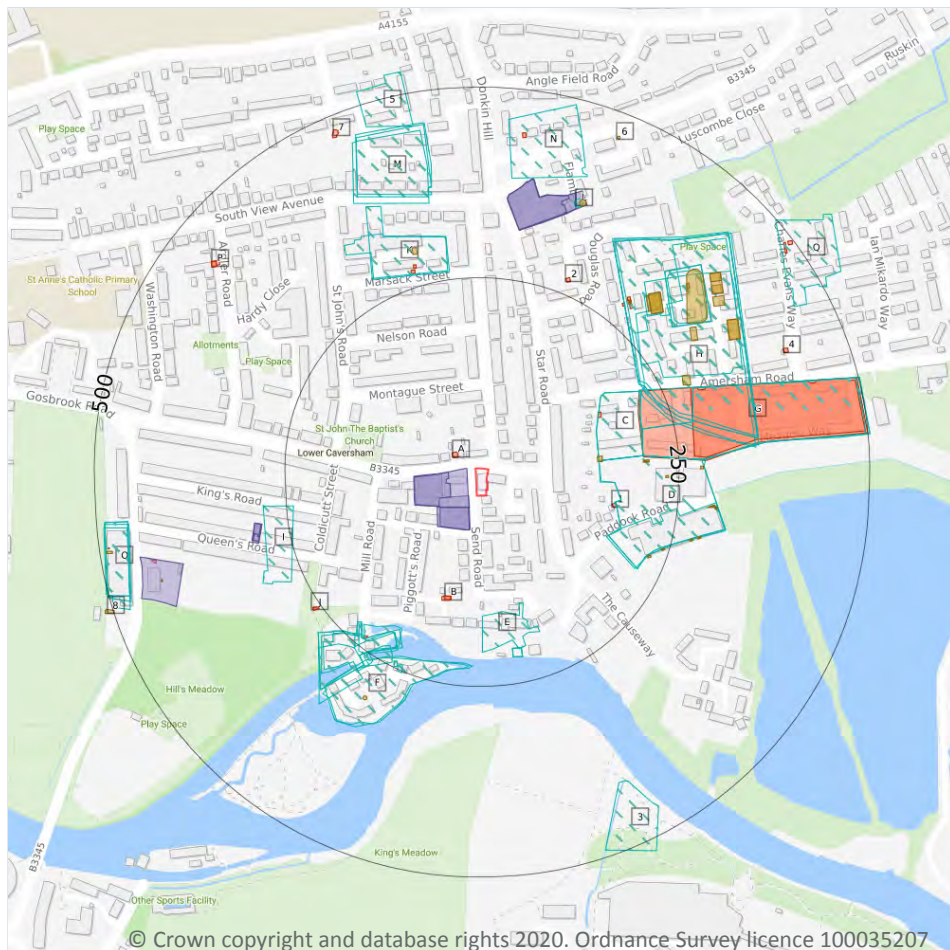
OS MasterMap site plan



Site Area: 0.05ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

47

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

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

ID	Location	Land use	Dates present	Group ID
D	145m E	Unspecified Warehouses	1989 - 1994	1946669



ID	Location	Land use	Dates present	Group ID
C	145m E	Unspecified Works	1989 - 1994	1900195
C	145m E	Unspecified Works	1977	1912915
D	145m E	Unspecified Warehouses	1977	1924776
E	148m S	Unspecified Mill	1901	1872612
D	166m E	Unspecified Warehouses	1989	1910666
F	200m SW	Unspecified Mill	1962 - 1971	1936827
F	203m SW	Corn Mill	1878	1900862
G	203m E	Unspecified Depot	1989 - 1994	1915820
G	203m E	Unspecified Depot	1977	1942526
G	203m E	Unspecified Depot	1971	1965884
E	203m S	Boat House	1989 - 1994	1897196
E	203m S	Boat House	1977	1901784
E	203m S	Boat House	1962 - 1971	1912096
F	209m SW	Unspecified Disused Mill	1938	1872762
F	209m SW	Corn Mill	1910	1908768
F	210m SW	Unspecified Mill	1897	1960005
F	220m S	Unspecified Mill	1977	1888716
H	224m NE	Sewage Works	1900	1960399
H	227m NE	Sewage Works	1910	1890288
H	227m NE	Sewage Works	1938	1922025
F	227m SW	Unspecified Mill	1900	1897957
H	229m NE	Sewage Works	1897	1918980
H	229m NE	Unspecified Works	1962	1860480
F	241m SW	Boat House	1910	1895560
F	241m SW	Boat House	1938	1903084
I	241m W	Laundry	1901	1862650
F	242m SW	Boat House	1878	1867400
H	243m NE	Telephone Engineering Centre	1989 - 1994	1945754



ID	Location	Land use	Dates present	Group ID
K	261m N	Laundry	1938	1909379
K	262m N	Laundry	1910	1956768
H	289m NE	Filter Beds	1910	1865218
H	305m NE	Unspecified Tanks	1938	1924029
H	305m NE	Unspecified Tanks	1910	1962792
H	313m NE	Unspecified Tanks	1962	1956466
M	353m N	Nursery	1900	1928865
M	362m N	Nursery	1897	1919480
L	363m N	Unspecified Tank	1962	1858401
M	364m N	Nursery	1910	1948798
N	383m N	Nursery	1901	1867802
3	415m SE	Unspecified Heap	1938	1869772
Q	454m NE	Sewage Works	1901	1861439
5	457m N	Nursery	1961	1951983
O	458m W	Laundry	1897	1940793
O	459m W	Laundry	1938	1927014
O	459m W	Laundry	1910	1950905
O	460m W	Laundry	1900	1927331

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

41

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

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



ID	Location	Land use	Dates present	Group ID
C	144m E	Unspecified Tank	1968 - 1995	318245
D	203m E	Tanks	1986 - 1990	322789
D	204m E	Tanks	1995	313929
D	226m E	Unspecified Tank	1990 - 1995	316516
D	233m E	Unspecified Tank	1986 - 1990	315753
D	240m E	Unspecified Tank	1990 - 1995	325999
D	273m E	Tanks	1990	310730
D	273m E	Unspecified Tank	1995	324336
D	278m E	Unspecified Tank	1986 - 1995	326605
H	278m NE	Unspecified Tank	1956 - 1965	319661
D	282m E	Tanks	1990	310731
D	283m E	Unspecified Tank	1995	323570
H	286m NE	Unspecified Tank	1977	317590
H	286m NE	Unspecified Tank	1990	318144
H	286m NE	Unspecified Tank	1986	321692
H	287m NE	Unspecified Tank	1995	324353
D	290m E	Unspecified Tank	1986 - 1990	324647
D	291m E	Unspecified Tank	1977	320217
K	291m N	Unspecified Tank	1956 - 1968	319337
H	295m NE	Tanks	1899	328203
H	296m NE	Tanks	1956	326886
H	296m NE	Tanks	1956 - 1965	318261
D	299m E	Unspecified Tank	1990	328029
D	299m E	Unspecified Tank	1995	326311
F	300m SW	Unspecified Tank	1913	305893
H	315m NE	Unspecified Tank	1956 - 1965	326785
H	324m NE	Tanks	1913 - 1932	316255
H	353m NE	Unspecified Tank	1986 - 1995	318780



ID	Location	Land use	Dates present	Group ID
H	358m NE	Unspecified Tank	1956	325223
H	359m NE	Unspecified Tank	1956 - 1965	323098
H	365m NE	Unspecified Tank	1956 - 1965	326787
L	367m N	Unspecified Tank	1956 - 1965	326712
H	373m NE	Tanks	1956	313328
H	373m NE	Tanks	1956 - 1965	328117
H	382m NE	Tanks	1956	318507
O	426m W	Unspecified Tank	1972	316703
O	427m W	Unspecified Tank	1989	325658
6	466m N	Unspecified Tank	1881	305898
O	483m W	Tanks	1956 - 1989	314298
O	487m W	Tanks	1956 - 1959	323324
8	499m W	Unspecified Tank	1972 - 1989	320594

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

25

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

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

ID	Location	Land use	Dates present	Group ID
A	27m NW	Electricity Substation	1956 - 1996	202372
B	136m S	Electricity Substation	-	187498
B	136m S	Electricity Substation	1987	202130
C	159m NE	Electricity Substation	1968 - 1995	201823
1	164m E	Electricity Substation	1977 - 1995	198436



ID	Location	Land use	Dates present	Group ID
G	204m E	Electricity Board Depot	1968 - 1990	201112
F	233m SW	Electricity Substation	1956 - 1972	201390
J	254m SW	Electricity Substation	-	187783
J	254m SW	Electricity Substation	1972 - 1987	208280
2	266m NE	Electricity Substation	1968 - 1996	206122
K	268m N	Electricity Substation	1988 - 1996	205389
G	271m E	Electricity Board Depot	1995	196275
K	274m N	Electricity Substation	1968	189883
H	277m NE	Electricity Substation	1986 - 1990	204612
H	281m NE	Electricity Substation	1995	189876
H	284m NE	Electricity Substation	1968	189877
H	287m NE	Electricity Substation	1977	189882
4	417m E	Electricity Substation	1977 - 1986	198269
O	429m W	Electricity Substation	1989	189864
P	429m NW	Electricity Substation	1988 - 1992	195774
P	431m NW	Electricity Substation	1995 - 1996	202828
N	437m N	Electricity Substation	1988 - 1996	200802
7	471m NW	Electricity Substation	1968 - 1996	198046
Q	482m NE	Electricity Substation	1995	189879
Q	491m NE	Electricity Substation	1977 - 1990	198324

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

13

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
A	11m W	Garage	1968	63264
A	11m W	Garage	1995 - 1996	64189
A	18m SW	Garage	1972	61331
A	19m SW	Garage	-	60562
A	19m SW	Garage	1987	63691
A	34m W	Garage	1988 - 1992	65302
I	284m W	Garage	1956 - 1972	64752
I	285m W	Garage	-	60537
I	286m W	Garage	1987	61173
L	316m N	General Post Office Garage	1956 - 1965	63524
L	316m N	General Post Office Garage	1956	63158
L	317m N	General Post Office Garage	1968	61778
O	395m W	Garage	1972 - 1989	64176

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

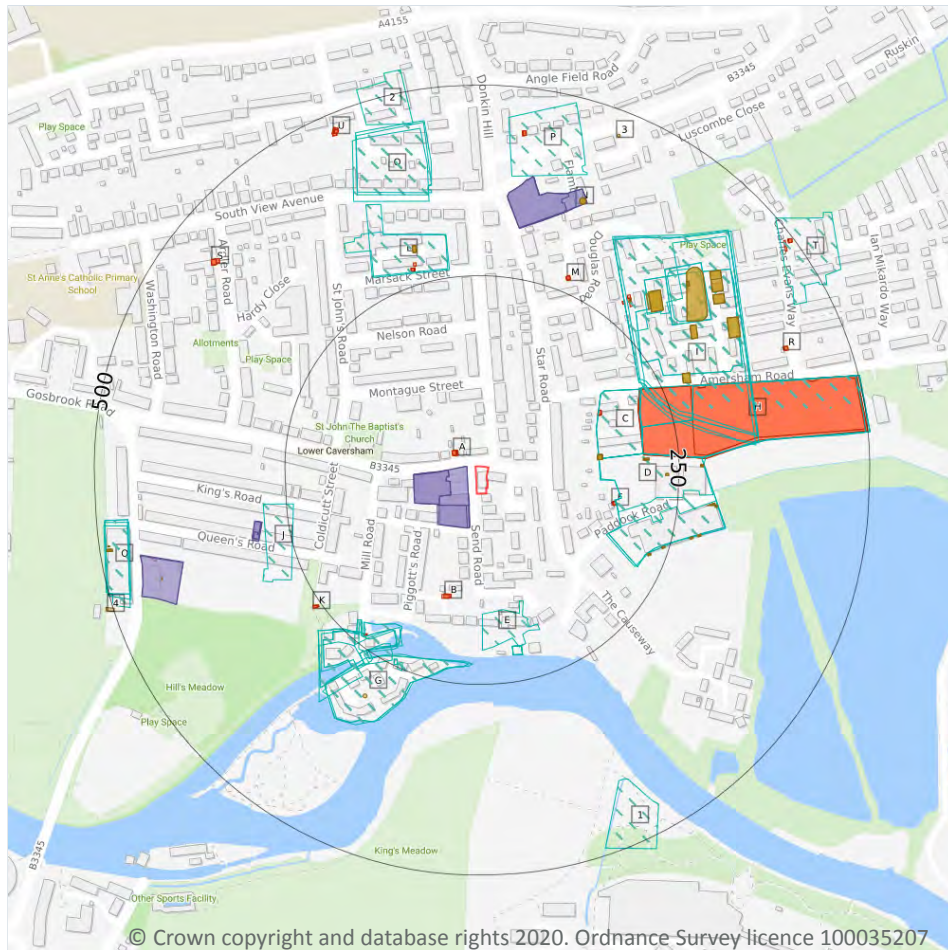
0

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

54

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 21**

ID	Location	Land Use	Date	Group ID
D	145m E	Unspecified Warehouses	1989	1946669
C	145m E	Unspecified Works	1994	1900195
C	145m E	Unspecified Works	1989	1900195



ID	Location	Land Use	Date	Group ID
C	145m E	Unspecified Works	1977	1912915
D	145m E	Unspecified Warehouses	1994	1946669
D	145m E	Unspecified Warehouses	1977	1924776
E	148m S	Unspecified Mill	1901	1872612
D	166m E	Unspecified Warehouses	1989	1910666
G	200m SW	Unspecified Mill	1962	1936827
G	200m SW	Unspecified Mill	1971	1936827
G	203m SW	Corn Mill	1878	1900862
H	203m E	Unspecified Depot	1994	1915820
H	203m E	Unspecified Depot	1989	1915820
H	203m E	Unspecified Depot	1977	1942526
H	203m E	Unspecified Depot	1971	1965884
E	203m S	Boat House	1994	1897196
E	203m S	Boat House	1989	1897196
E	203m S	Boat House	1977	1901784
E	203m S	Boat House	1962	1912096
E	203m S	Boat House	1971	1912096
G	209m SW	Unspecified Disused Mill	1938	1872762
G	209m SW	Corn Mill	1910	1908768
G	210m SW	Unspecified Mill	1897	1960005
G	220m S	Unspecified Mill	1977	1888716
I	224m NE	Sewage Works	1900	1960399
I	227m NE	Sewage Works	1938	1922025
I	227m NE	Sewage Works	1910	1890288
G	227m SW	Unspecified Mill	1900	1897957
I	229m NE	Sewage Works	1897	1918980
I	229m NE	Unspecified Works	1962	1860480
G	241m SW	Boat House	1938	1903084



ID	Location	Land Use	Date	Group ID
G	241m SW	Boat House	1910	1895560
J	241m W	Laundry	1901	1862650
G	242m SW	Boat House	1878	1867400
I	243m NE	Telephone Engineering Centre	1994	1945754
I	243m NE	Telephone Engineering Centre	1989	1945754
L	261m N	Laundry	1938	1909379
L	262m N	Laundry	1910	1956768
I	289m NE	Filter Beds	1910	1865218
I	305m NE	Unspecified Tanks	1938	1924029
I	305m NE	Unspecified Tanks	1910	1962792
I	313m NE	Unspecified Tanks	1962	1956466
O	353m N	Nursery	1900	1928865
O	362m N	Nursery	1897	1919480
N	363m N	Unspecified Tank	1962	1858401
O	364m N	Nursery	1910	1948798
P	383m N	Nursery	1901	1867802
1	415m SE	Unspecified Heap	1938	1869772
T	454m NE	Sewage Works	1901	1861439
2	457m N	Nursery	1961	1951983
Q	458m W	Laundry	1897	1940793
Q	459m W	Laundry	1938	1927014
Q	459m W	Laundry	1910	1950905
Q	460m W	Laundry	1900	1927331

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

80

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

Features are displayed on the Past land use - un-grouped map on **page 21**

ID	Location	Land Use	Date	Group ID
C	144m E	Unspecified Tank	1995	318245
C	144m E	Unspecified Tank	1986	318245
C	144m E	Unspecified Tank	1990	318245
C	144m E	Unspecified Tank	1968	318245
C	144m E	Unspecified Tank	1977	318245
D	203m E	Tanks	1986	322789
D	203m E	Tanks	1990	322789
D	204m E	Tanks	1995	313929
D	226m E	Unspecified Tank	1990	316516
D	226m E	Unspecified Tank	1995	316516
D	227m E	Unspecified Tank	1995	316516
D	233m E	Unspecified Tank	1986	315753
D	233m E	Unspecified Tank	1990	315753
D	240m E	Unspecified Tank	1990	325999
D	241m E	Unspecified Tank	1995	325999
D	241m E	Unspecified Tank	1995	325999
D	273m E	Tanks	1990	310730
D	273m E	Unspecified Tank	1995	324336
D	273m E	Unspecified Tank	1995	324336
D	278m E	Unspecified Tank	1986	326605
D	278m E	Unspecified Tank	1990	326605
I	278m NE	Unspecified Tank	1956	319661
D	279m E	Unspecified Tank	1995	326605



ID	Location	Land Use	Date	Group ID
I	279m NE	Unspecified Tank	1965	319661
I	279m NE	Unspecified Tank	1956	319661
D	282m E	Tanks	1990	310731
D	283m E	Unspecified Tank	1995	323570
D	283m E	Unspecified Tank	1995	323570
I	286m NE	Unspecified Tank	1977	317590
I	286m NE	Unspecified Tank	1986	321692
I	286m NE	Unspecified Tank	1990	318144
I	287m NE	Unspecified Tank	1995	324353
D	290m E	Unspecified Tank	1986	324647
D	290m E	Unspecified Tank	1990	324647
D	291m E	Unspecified Tank	1977	320217
L	291m N	Unspecified Tank	1965	319337
L	291m N	Unspecified Tank	1956	319337
L	292m N	Unspecified Tank	1956	319337
L	292m N	Unspecified Tank	1968	319337
I	295m NE	Tanks	1899	328203
I	296m NE	Tanks	1956	326886
I	296m NE	Tanks	1965	318261
I	296m NE	Tanks	1956	318261
D	299m E	Unspecified Tank	1990	328029
D	299m E	Unspecified Tank	1995	326311
D	300m E	Unspecified Tank	1995	326311
D	300m E	Unspecified Tank	1995	326311
G	300m SW	Unspecified Tank	1913	305893
I	315m NE	Unspecified Tank	1956	326785
I	316m NE	Unspecified Tank	1965	326785
I	316m NE	Unspecified Tank	1956	326785

ID	Location	Land Use	Date	Group ID
I	324m NE	Tanks	1913	316255
I	324m NE	Tanks	1932	316255
I	353m NE	Unspecified Tank	1986	318780
I	353m NE	Unspecified Tank	1990	318780
I	353m NE	Unspecified Tank	1995	318780
I	358m NE	Unspecified Tank	1956	325223
I	359m NE	Unspecified Tank	1965	323098
I	359m NE	Unspecified Tank	1956	323098
I	365m NE	Unspecified Tank	1956	326787
I	366m NE	Unspecified Tank	1965	326787
I	366m NE	Unspecified Tank	1956	326787
N	367m N	Unspecified Tank	1956	326712
N	367m N	Unspecified Tank	1965	326712
N	367m N	Unspecified Tank	1956	326712
I	373m NE	Tanks	1956	313328
I	373m NE	Tanks	1965	328117
I	373m NE	Tanks	1956	328117
I	382m NE	Tanks	1956	318507
Q	426m W	Unspecified Tank	1972	316703
Q	427m W	Unspecified Tank	1989	325658
3	466m N	Unspecified Tank	1881	305898
Q	483m W	Tanks	1959	314298
Q	483m W	Tanks	1956	314298
Q	485m W	Tanks	1972	314298
Q	485m W	Tanks	1956	314298
Q	485m W	Tanks	1989	314298
Q	487m W	Tanks	1959	323324
Q	487m W	Tanks	1956	323324



ID	Location	Land Use	Date	Group ID
4	499m W	Unspecified Tank	1972	320594

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	72
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 21**

ID	Location	Land Use	Date	Group ID
A	27m NW	Electricity Substation	1965	202372
A	27m NW	Electricity Substation	1956	202372
A	28m NW	Electricity Substation	1956	202372
A	28m NW	Electricity Substation	1968	202372
A	28m NW	Electricity Substation	1995	202372
A	28m NW	Electricity Substation	1996	202372
A	29m NW	Electricity Substation	1988	202372
A	29m NW	Electricity Substation	1992	202372
A	29m NW	Electricity Substation	1992	202372
B	136m S	Electricity Substation	-	187498
B	136m S	Electricity Substation	1987	202130
B	137m S	Electricity Substation	1987	202130
C	159m NE	Electricity Substation	1968	201823
C	159m NE	Electricity Substation	1977	201823
C	159m NE	Electricity Substation	1995	201823
C	159m NE	Electricity Substation	1986	201823
C	159m NE	Electricity Substation	1990	201823
F	164m E	Electricity Substation	1986	198436
F	164m E	Electricity Substation	1990	198436

ID	Location	Land Use	Date	Group ID
F	165m E	Electricity Substation	1977	198436
F	165m E	Electricity Substation	1995	198436
H	204m E	Electricity Board Depot	1986	201112
H	204m E	Electricity Board Depot	1990	201112
H	205m E	Electricity Board Depot	1968	201112
H	205m E	Electricity Board Depot	1977	201112
G	233m SW	Electricity Substation	1956	201390
G	234m SW	Electricity Substation	1972	201390
G	234m SW	Electricity Substation	1956	201390
K	254m SW	Electricity Substation	1972	208280
K	254m SW	Electricity Substation	-	187783
K	255m SW	Electricity Substation	1987	208280
M	266m NE	Electricity Substation	1995	206122
M	266m NE	Electricity Substation	1996	206122
M	267m NE	Electricity Substation	1988	206122
M	267m NE	Electricity Substation	1992	206122
M	267m NE	Electricity Substation	1992	206122
M	267m NE	Electricity Substation	1968	206122
L	268m N	Electricity Substation	1995	205389
L	268m N	Electricity Substation	1996	205389
L	268m N	Electricity Substation	1988	205389
L	268m N	Electricity Substation	1992	205389
L	268m N	Electricity Substation	1992	205389
H	271m E	Electricity Board Depot	1995	196275
L	274m N	Electricity Substation	1968	189883
I	277m NE	Electricity Substation	1986	204612
I	277m NE	Electricity Substation	1990	204612
I	281m NE	Electricity Substation	1995	189876



ID	Location	Land Use	Date	Group ID
I	284m NE	Electricity Substation	1968	189877
I	287m NE	Electricity Substation	1977	189882
R	417m E	Electricity Substation	1986	198269
R	418m E	Electricity Substation	1977	198269
Q	429m W	Electricity Substation	1989	189864
S	429m NW	Electricity Substation	1988	195774
S	429m NW	Electricity Substation	1992	195774
S	429m NW	Electricity Substation	1992	195774
S	431m NW	Electricity Substation	1995	202828
S	431m NW	Electricity Substation	1996	202828
P	437m N	Electricity Substation	1988	200802
P	437m N	Electricity Substation	1992	200802
P	437m N	Electricity Substation	1992	200802
P	437m N	Electricity Substation	1995	200802
P	437m N	Electricity Substation	1996	200802
U	471m NW	Electricity Substation	1988	198046
U	471m NW	Electricity Substation	1992	198046
U	471m NW	Electricity Substation	1992	198046
U	473m NW	Electricity Substation	1995	198046
U	473m NW	Electricity Substation	1996	198046
U	473m NW	Electricity Substation	1968	198046
T	482m NE	Electricity Substation	1995	189879
T	491m NE	Electricity Substation	1986	198324
T	491m NE	Electricity Substation	1990	198324
T	492m NE	Electricity Substation	1977	198324

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

22

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 21**

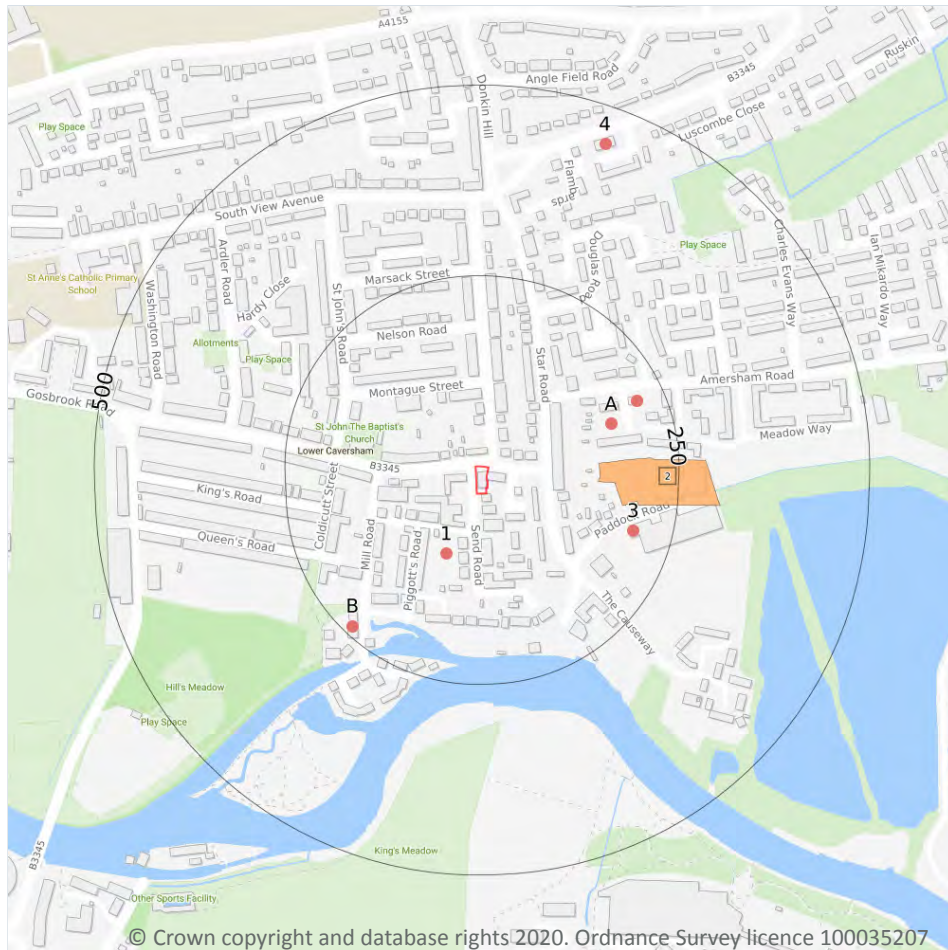
ID	Location	Land Use	Date	Group ID
A	11m W	Garage	1968	63264
A	11m W	Garage	1995	64189
A	11m W	Garage	1996	64189
A	18m SW	Garage	1972	61331
A	19m SW	Garage	-	60562
A	19m SW	Garage	1987	63691
A	21m SW	Garage	1987	63691
A	34m W	Garage	1988	65302
A	34m W	Garage	1992	65302
A	34m W	Garage	1992	65302
J	284m W	Garage	1965	64752
J	284m W	Garage	1956	64752
J	285m W	Garage	-	60537
J	285m W	Garage	1972	64752
J	285m W	Garage	1956	64752
J	286m W	Garage	1987	61173

ID	Location	Land Use	Date	Group ID
N	316m N	General Post Office Garage	1965	63524
N	316m N	General Post Office Garage	1956	63524
N	316m N	General Post Office Garage	1956	63158
N	317m N	General Post Office Garage	1968	61778
Q	395m W	Garage	1972	64176
Q	395m W	Garage	1989	64176

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical 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**0**

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

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

3.5 Historical waste sites

Records within 500m**1**

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 32**

ID	Location	Address	Further Details	Date
2	145m E	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1967

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

3.6 Licensed waste sites

Records within 500m**0**

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

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

3.7 Waste exemptions

Records within 500m

9

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

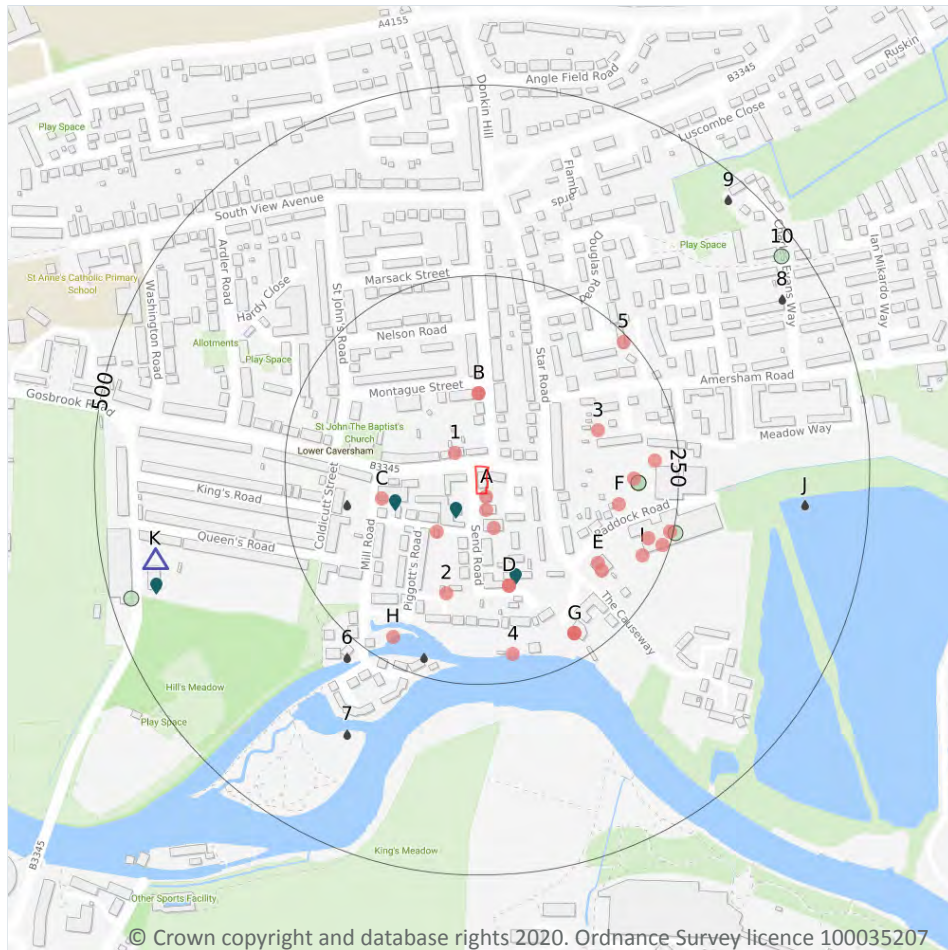
Features are displayed on the Waste and landfill map on **page 32**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	89m SW	Land at NGR SU 72330 74436 Champion Road Caversham RG4 8EN	EPR/UE5646CF /A001	Storing waste exemption	Both agricultural and non- agricultural waste	Storage of waste in secure containers
A	170m E	Reading Storage Solutions Unit 38, 1 Paddock Road, Reading, RG45LZ	WEX123837	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	170m E	Reading Storage Solutions Unit 38, 1 Paddock Road, Reading, RG45LZ	WEX123837	Storing waste exemption	Not on a farm	Storage of waste in a secure place
3	199m E	SPP Pumps Limited, 1 Paddock Road, Caversham, Reading, RG4 5BY	WEX128173	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	212m NE	Reading Storage Solutions, Unit 40/70, 1 Paddocks Road, Caversham, Reading, RG4 5LZ	WEX240267	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	212m NE	Reading Storage Solutions, Unit 40/70, 1 Paddocks Road, Caversham, Reading, RG4 5LZ	WEX240267	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	239m SW	1, HERON ISLAND, CAVERSHAM, READING, RG4 8DQ	WEX165447	Using waste exemption	Not on a Farm	Use of waste in construction
B	239m SW	1, HERON ISLAND, CAVERSHAM, READING, RG4 8DQ	WEX165447	Disposing of waste exemption	Not on a Farm	Deposit of waste from dredging of inland waters
4	450m N	ROSEBANK HOUSE, LOWER HENLEY ROAD, CAVERSHAM, READING, RG4 5LE	WEX160594	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal

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
- 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

27

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Company	Address	Activity	Category
A	5m S	Caversham Coachworks Reading Ltd	2, Send Road, Caversham, Reading, Berkshire, RG4 8EH	Vehicle Repair, Testing and Servicing	Repair and Servicing
A	22m S	R S Tyres & Covers	4 Send Road, Caversham, Reading, Berkshire, RG4 8EH	Vehicle Parts and Accessories	Motoring

ID	Location	Company	Address	Activity	Category
1	32m NW	Electricity Sub Station	Berkshire, RG4	Electrical Features	Infrastructure and Facilities
A	47m S	B C Air Conditioning & Refrigeration	6, Send Road, Caversham, Reading, Berkshire, RG4 8EH	Electrical Equipment Repair and Servicing	Repair and Servicing
A	72m SW	N & T Motorcycles	4a, Champion Road, Caversham, Reading, Berkshire, RG4 8EL	Vehicle Repair, Testing and Servicing	Repair and Servicing
B	96m N	Hulse Recovery Services	1, Montague Street, Caversham, Reading, Berkshire, RG4 5AU	Vehicle Breakdown and Recovery Services	Personal, Consumer and Other Services
B	96m N	Hoppabag Skip Hire	1, Montague Street, Caversham, Reading, Berkshire, RG4 5AU	Construction and Tool Hire	Hire Services
D	124m S	Star Motor Service Ltd	28, Send Road, Caversham, Reading, Berkshire, RG4 8EH	Vehicle Repair, Testing and Servicing	Repair and Servicing
D	124m S	Tones Body & Paint Centre	28, Send Road, Caversham, Reading, Berkshire, RG4 8EH	Vehicle Repair, Testing and Servicing	Repair and Servicing
C	125m W	Mill Road Garage	2, Mill Road, Caversham, Reading, Berkshire, RG4 8DP	Vehicle Repair, Testing and Servicing	Repair and Servicing
2	136m S	Electricity Sub Station	Berkshire, RG4	Electrical Features	Infrastructure and Facilities
3	152m E	Electricity Sub Station	Berkshire, RG4	Electrical Features	Infrastructure and Facilities
E	172m SE	Reading Storage Solutions	1 Paddock Road, Caversham, Reading, Berkshire, RG4 5BY	Container and Storage	Transport, Storage and Delivery
F	174m E	Electricity Sub Station	Berkshire, RG4	Electrical Features	Infrastructure and Facilities
E	182m SE	Network Critical Solutions	Unit 3 East Throp House 1, Paddock Road, Caversham, Reading, Berkshire, RG4 5BY	Radar and Telecommunications Equipment	Industrial Products
F	191m E	Industrial Estate	Berkshire, RG4	Business Parks and Industrial Estates	Industrial Features
4	214m S	Landing Stage	Berkshire, RG4	Moorings and Unloading Facilities	Water



ID	Location	Company	Address	Activity	Category
G	217m SE	Walker Outboard Services Ltd	The Boatyard, Mill Green, Caversham, Reading, Berkshire, RG4 8EX	Marine Engineers and Services	Engineering Services
G	217m SE	Marine Windows	The Boatyard, Mill Green, Caversham, Reading, Berkshire, RG4 8EX	Glass	Industrial Products
G	217m SE	Better Boating Co	The Boatyard, Mill Green, Caversham, Reading, Berkshire, RG4 8EX	Moorings and Unloading Facilities	Water
H	217m SW	Landing Stage	Berkshire, RG4	Moorings and Unloading Facilities	Water
F	219m E	Tanks	Berkshire, RG4	Tanks (Generic)	Industrial Features
I	220m E	Tank	Berkshire, RG4	Tanks (Generic)	Industrial Features
I	220m E	Warehouse	Berkshire, RG4	Container and Storage	Transport, Storage and Delivery
I	240m E	Tank	Berkshire, RG4	Tanks (Generic)	Industrial Features
5	242m NE	A D Morris Carpet Fitters	8, Talbot Close, Caversham, Reading, Berkshire, RG4 5BN	Construction Completion Services	Construction Services
I	245m E	Warehouse	Berkshire, RG4	Container and Storage	Transport, Storage and Delivery

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Company	Address	LPG	Status
K	431m W	SHELL	George Street, Caversham, Reading, Reading, RG4 8DH	No	Open

This data is sourced from Experian.



4.3 Electricity cables

Records within 500m**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m**0**

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m**0**

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m**0**

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

4

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

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Address	Details	
A	35m SW	Cavesham Coachworks Limited, 3 Send Road, Caversham, Reading, RG4 8EH	Process: Respraying of Road Vehicles Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
C	107m W	Mill Road Garage, 2 Mill Road, Caversham, RG4 8DP	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified



ID	Location	Address	Details	
D	115m S	Star Motor Services, Unit 1, Send Road, Caversham, Reading, RG4 8EH	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
K	437m W	Shell (UK) Limited, Thames Valley Service Station, George Street, Caversham, Reading, RG4 8DH	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	9
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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 35**

ID	Location	Address	Details	
C	170m W	CORK FACTORY, CAVERSHAM MILL, MILL, CORK FACTORY CAVERSHAM MILL MI, LL RD CAVERSHAM READING BERKS	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCR.0797 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 08/10/1965 Effective Date: 08/10/1965 Revocation Date: 23/01/1987
C	170m W	CORK FACTORY, CAVERSHAM MILL, MILL, CORK FACTORY CAVERSHAM MILL MI, LL RD CAVERSHAM READING BERKS	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCR.0798 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 08/10/1965 Effective Date: 08/10/1965 Revocation Date: 23/10/1987



ID	Location	Address	Details	
H	226m S	BRITCORK WORKS, CAVERSHAM, READING, BRITCORK WORKS CAVERSHAM READI, NG BERKS	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTRC.1245 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 11/10/1971 Effective Date: 11/10/1971 Revocation Date: 23/01/1987
6	274m SW	BRITCORK WORKS, CAVERSHAM, READING, BRITCORK WORKS CAVERSHAM READI, NG BERKS	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTRC.1601 Permit Version: 1 Receiving Water: CAVERSHAM MILL STREAM	Status: REVOKED - UNSPECIFIED Issue date: 19/06/1979 Effective Date: 19/06/1979 Revocation Date: 23/01/1987
7	358m SW	CAVERSHAM MILL, READING, BERKS, CAVERSHAM MILL READING BERKS	Effluent Type: MISCELLANEOUS DISCHARGES - UNSPECIFIED Permit Number: CTWC.1438 Permit Version: 1 Receiving Water: RIVER THAMES	Status: REVOKED - UNSPECIFIED Issue date: 23/01/1987 Effective Date: 23/01/1987 Revocation Date: 14/05/1991
J	416m E	Reading, Caversham, Reading, Caversham	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.1769 Permit Version: 1 Receiving Water: THAMES	Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 02/09/2010
J	416m E	Reading, Caversham, Reading, Caversham	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.1769 Permit Version: 2 Receiving Water: Thames	Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: -
8	443m NE	SURFACE WATER OUTFALL, AMERSHAM ROA, SURFACE WATER OUTFALL AMERSHAM, ROAD CAVERSHAM READING BERKSH, IRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CNTW.0379 Permit Version: 1 Receiving Water: BERRY'S BROOK	Status: REVOKED - UNSPECIFIED Issue date: 07/03/1990 Effective Date: 07/03/1990 Revocation Date: 24/03/1992
9	470m NE	POINT B, CHARLES EVANS WAY, AMERSHA, POINT B CHARLES EVANS WAY AMER, SHAM ROAD CAVERSHAM READING B, ERKS	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.2684 Permit Version: 1 Receiving Water: BERRY BROOK	Status: REVOKED - UNSPECIFIED Issue date: 01/08/1988 Effective Date: 01/08/1988 Revocation Date: 26/06/1992

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**5**

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 35**

ID	Location	Details	
F	197m E	Incident Date: 06/01/2008 Incident Identification: 553940 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
F	197m E	Incident Date: 06/01/2008 Incident Identification: 553940 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
I	253m E	Incident Date: 18/07/2003 Incident Identification: 174892 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
K	473m W	Incident Date: 27/08/2019 Incident Identification: 1732829 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
10	473m NE	Incident Date: 25/04/2003 Incident Identification: 153990 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 4 (No Impact) 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
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The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

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

4.20 Pollution inventory waste transfers

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

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



4.21 Pollution inventory radioactive waste

Records within 500m

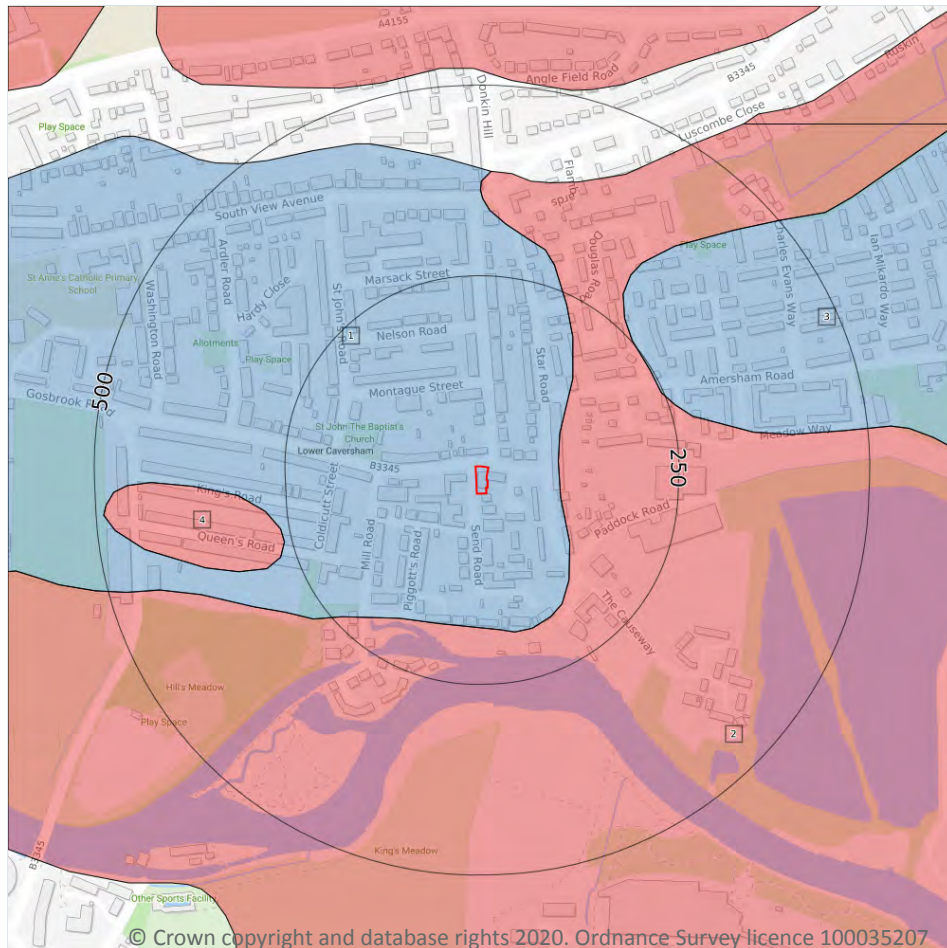
0

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

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



5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

4

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 45**

ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	92m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

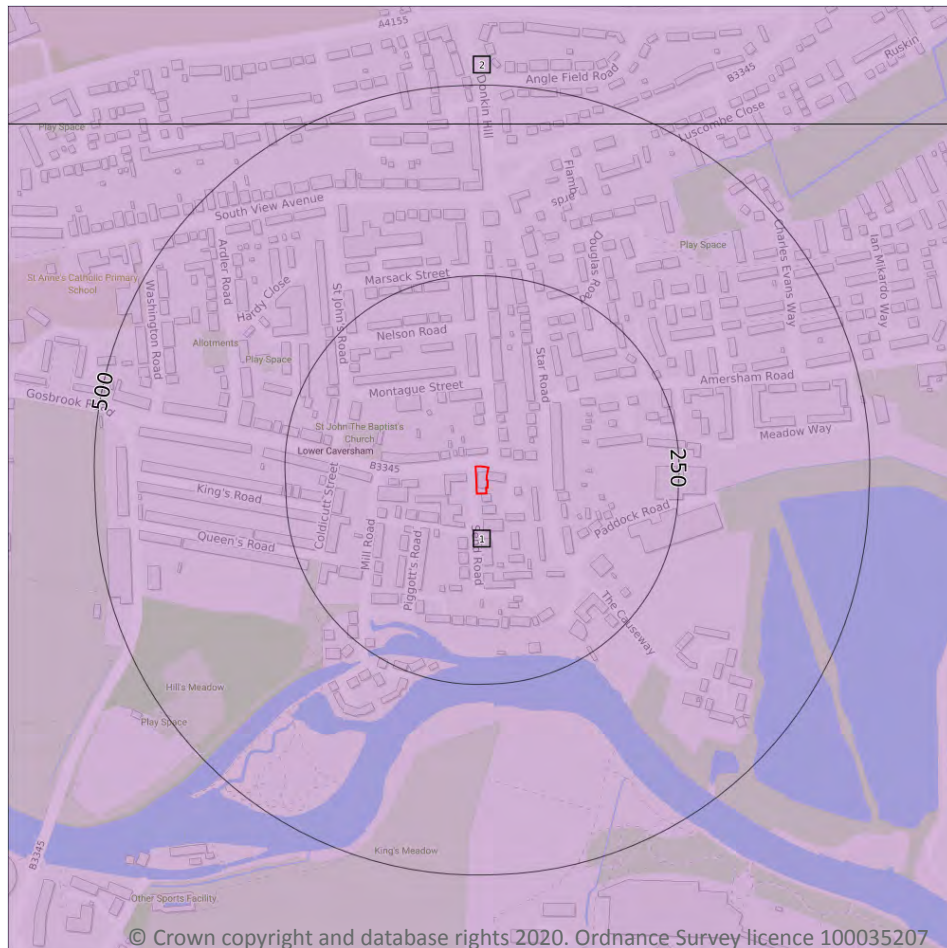


ID	Location	Designation	Description
3	247m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
4	260m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 47**

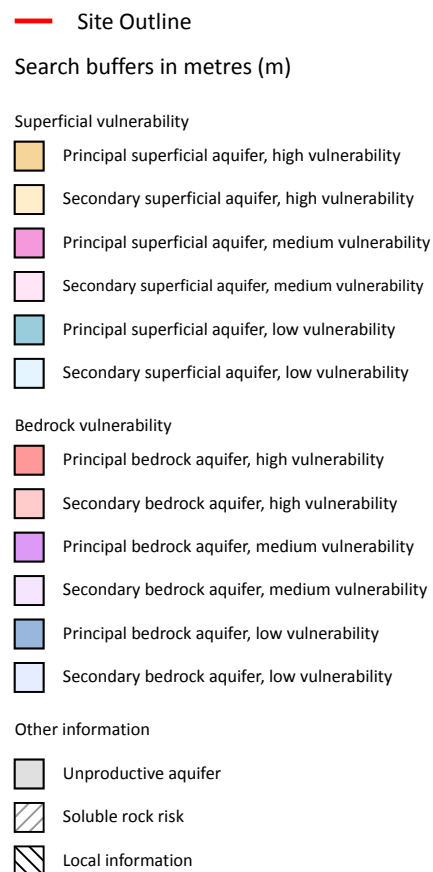
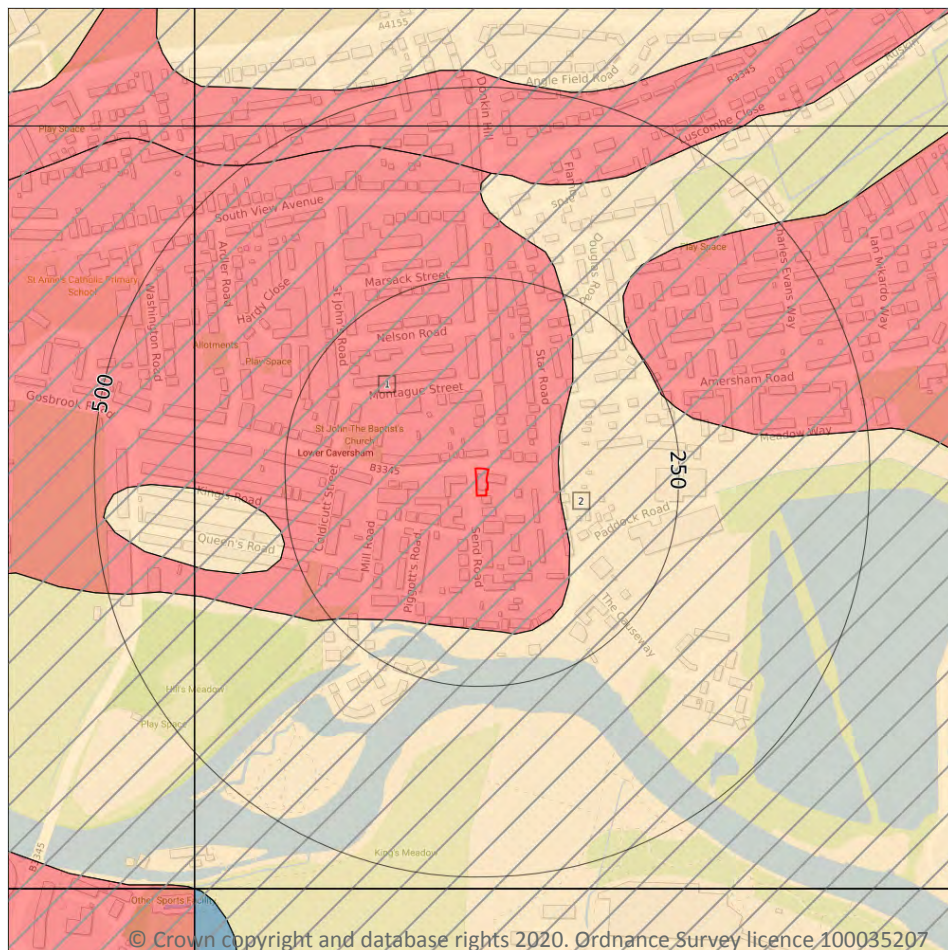
ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	449m N	Principal	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

1

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

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

Features are displayed on the Groundwater vulnerability map on **page 49**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: High 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
2	Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.	23.0%

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

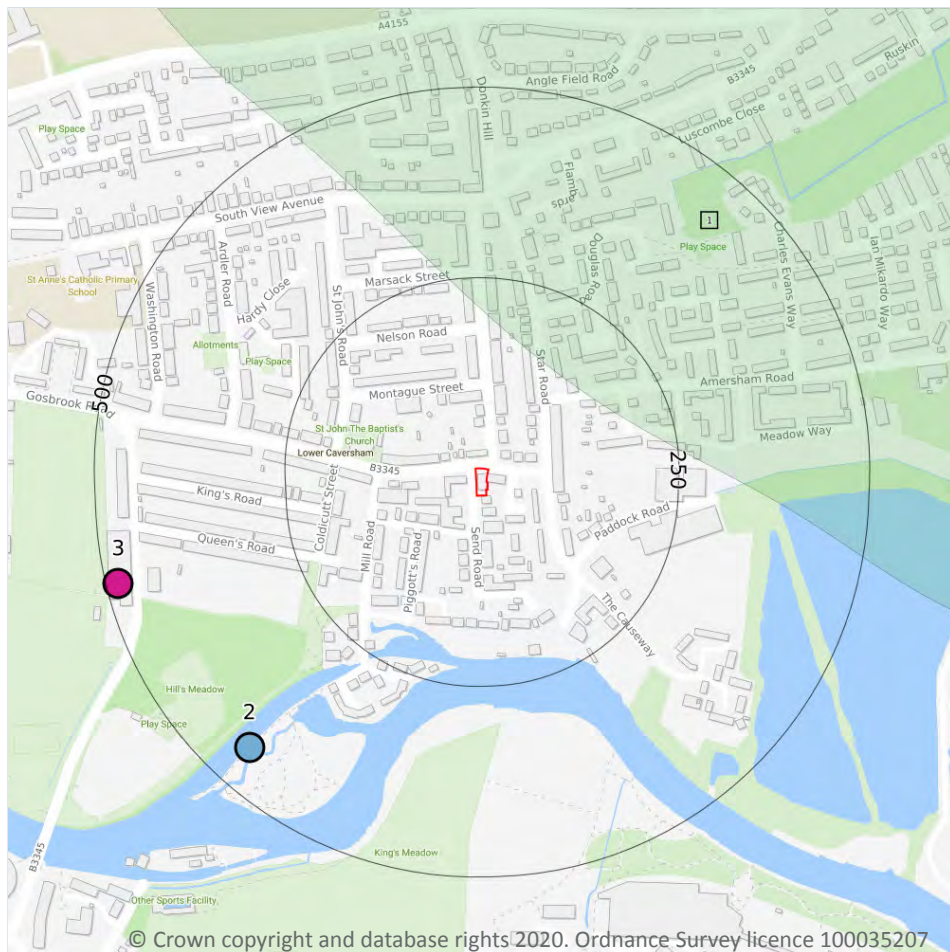
5.5 Groundwater vulnerability- local information

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

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

Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

19

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 51**

ID	Location	Details	
3	484m W	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: -
-	969m S	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: -
-	1275m SE	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: -
-	1310m SE	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	
-	1504m E	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: -
-	1504m E	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: -
-	1507m E	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: -
-	1507m E	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: -

ID	Location	Details	
-	1527m 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: -
-	1527m 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: -
-	1527m 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: -
-	1527m 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: -
-	1549m SW	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: -



ID	Location	Details	
-	1715m 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: -
-	1748m 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: -
-	1748m 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: -
-	1804m 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	
-	1804m 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: -
-	1843m W	Status: Active Licence No: 28/39/23/0128 Details: Process Water Direct Source: THAMES GROUNDWATER Point: CARDIFF ROAD, READING POINT B Data Type: Point Name: HILLIER GROUP OF COMPANIES Easting: 470600 Northing: 174000	Annual Volume (m ³): 6,682 Max Daily Volume (m ³): 27.28 Original Application No: - Original Start Date: 22/01/1975 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 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 51**

ID	Location	Details	
2	445m SW	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: 3 Version Start Date: 19/02/2020 Version End Date: -



ID	Location	Details	
-	932m W	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: -
-	932m W	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: -
-	932m W	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: -
-	1572m SW	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: -
-	1572m SW	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: 2 Version Start Date: 09/03/2020 Version End Date: -



ID	Location	Details	
-	1743m E	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

5

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 51**

ID	Location	Details	
-	1310m SE	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: -
-	1527m 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: -



ID	Location	Details	
-	1527m 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: -
-	1549m SW	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: -
-	1715m 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: -

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

5.9 Source Protection Zones

Records within 500m	1
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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 51**

ID	Location	Type	Description
1	155m NE	3	Total catchment

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



5.10 Source Protection Zones (confined aquifer)

Records within 500m

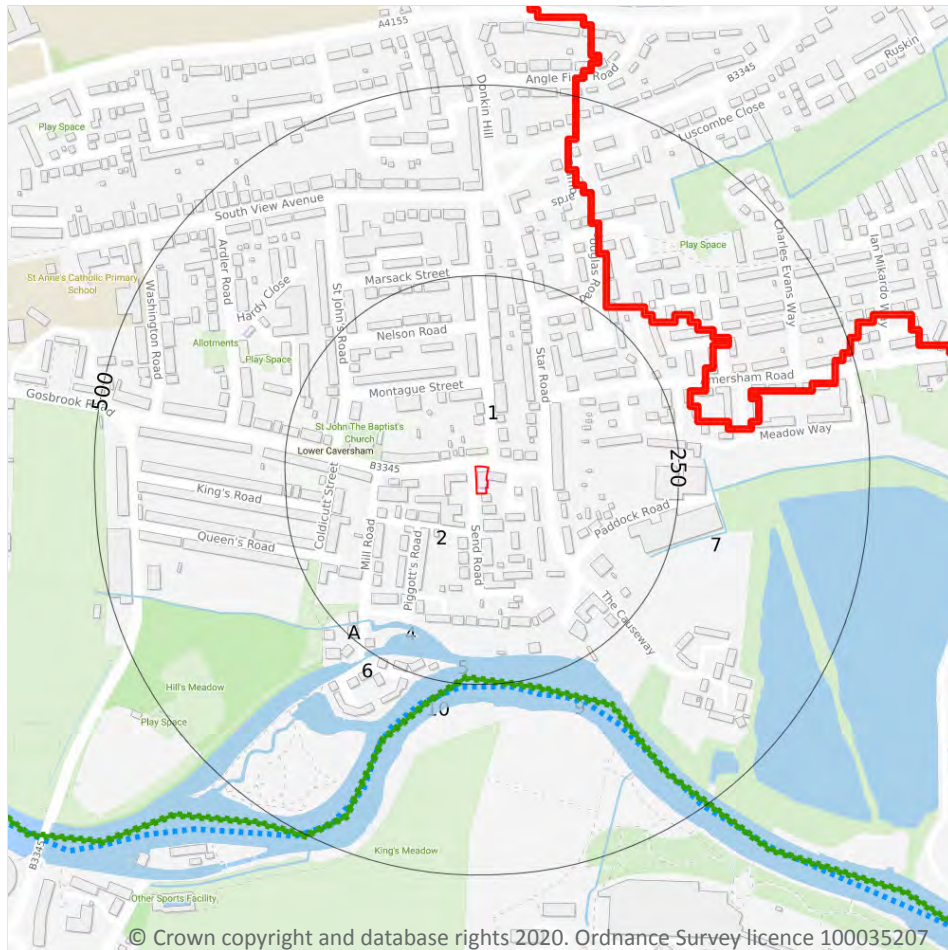
0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

7

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 61**

ID	Location	Type of water feature	Ground level	Permanence	Name
4	195m SW	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
5	212m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Thames
6	213m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Thames
A	217m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
7	230m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	243m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Thames
10	246m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Thames

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

1

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 61**

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 61**



ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	On site	River WB catchment	Thames Wallingford to Caversham	GB106039030331	South Chilterns	Thames and South Chilterns

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

6.4 WFD Surface water bodies

Records identified	1
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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 61**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
11	253m S	River	Thames Wallingford to Caversham	GB106039030331	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.

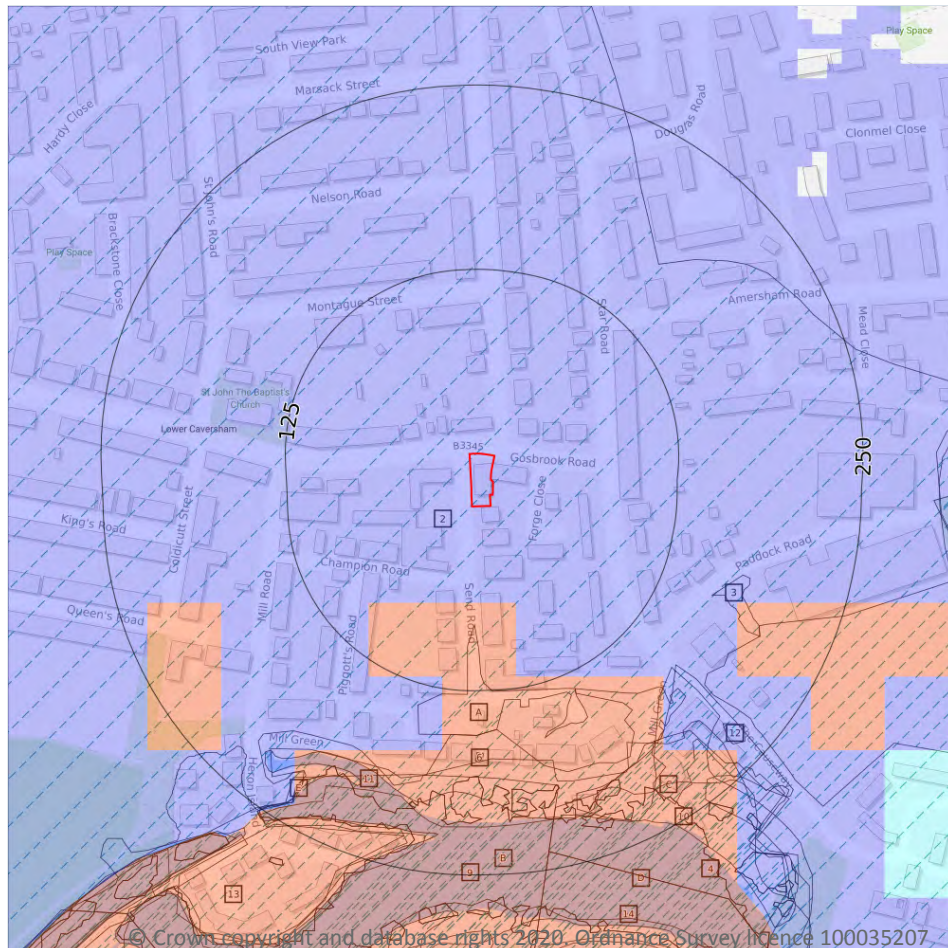
Features are displayed on the Hydrology map on **page 61**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	On site	South-West Chilterns Chalk	GB40601G601100	Poor	Good	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

1

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 64**

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



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

7.2 Historical Flood Events

Records within 250m

20

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 64**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
2	On site	06marchspring1947	1947-01-01 1947-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
A	80m S	06januarynewyear2003	2002-12-23 2003-01-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
B	137m SE	06januarynewyear2003	2002-12-23 2003-01-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
3	162m E	06januarynewyear2003	2002-12-23 2003-01-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
4	165m SE	06augustsummer1977	1977-01-01 1977-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
C	166m SE	06novemberautumn1974	1974-01-01 1974-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
6	167m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
B	172m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
D	183m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
9	183m S	06decemberwinter2000	2000-01-01 2000-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
D	191m SW	Shiplake Cp_Fluvial Water	2007-07-19 2007-07-29	Main river	Channel capacity exceeded (no raised defences)	Fluvial
10	193m SE	06decemberwinter2000	2000-01-01 2000-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
11	194m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
B	204m SE	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
12	216m SE	Ea06winter13-14	2013-11-23 2014-02-28	Unknown	Local drainage/surface water	Fluvial
E	219m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
13	220m S	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
E	231m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	Fluvial
14	238m S	06decemberwinter2000	2000-01-01 2000-12-12	Main river	Channel capacity exceeded (no raised defences)	Fluvial
E	239m SW	Ea06winter13-14	2013-11-23 2014-02-28	Main river	Channel capacity exceeded (no raised defences)	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

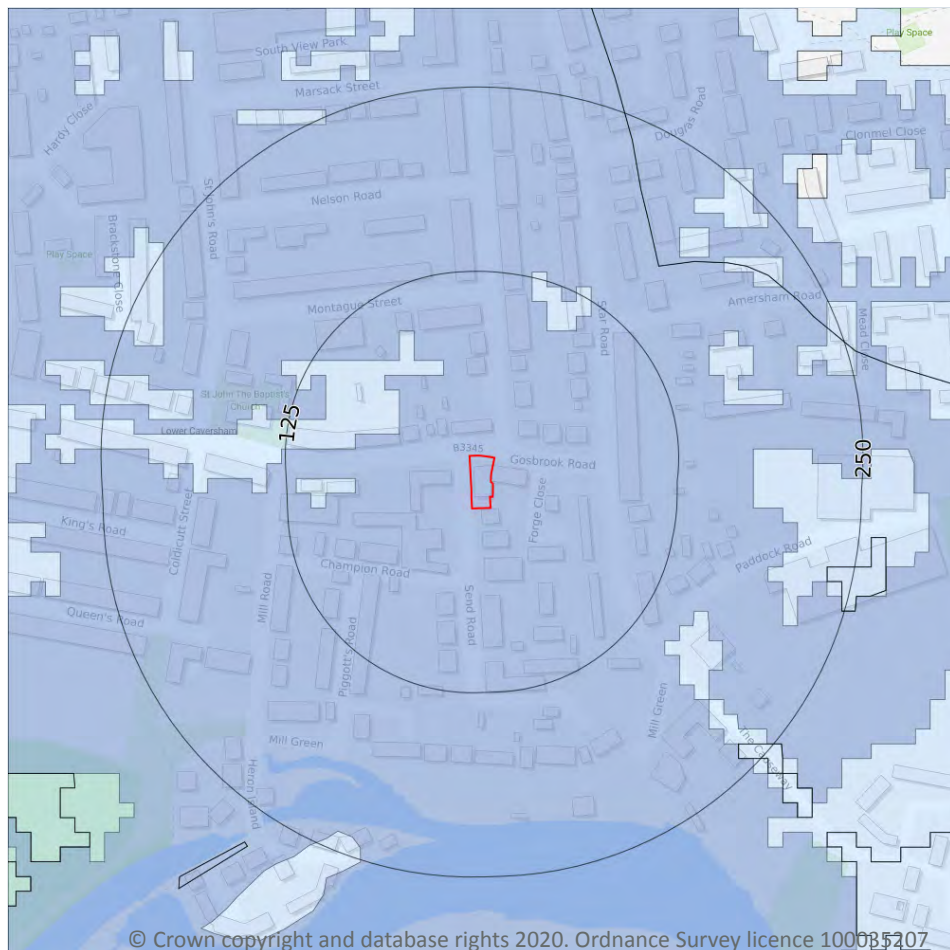
0

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 64**

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.

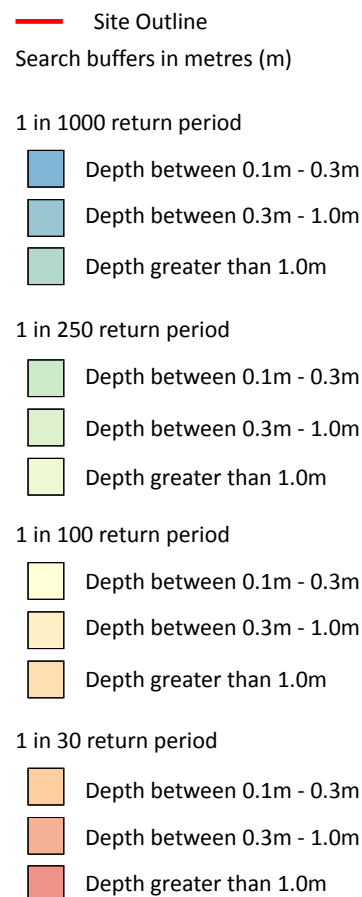
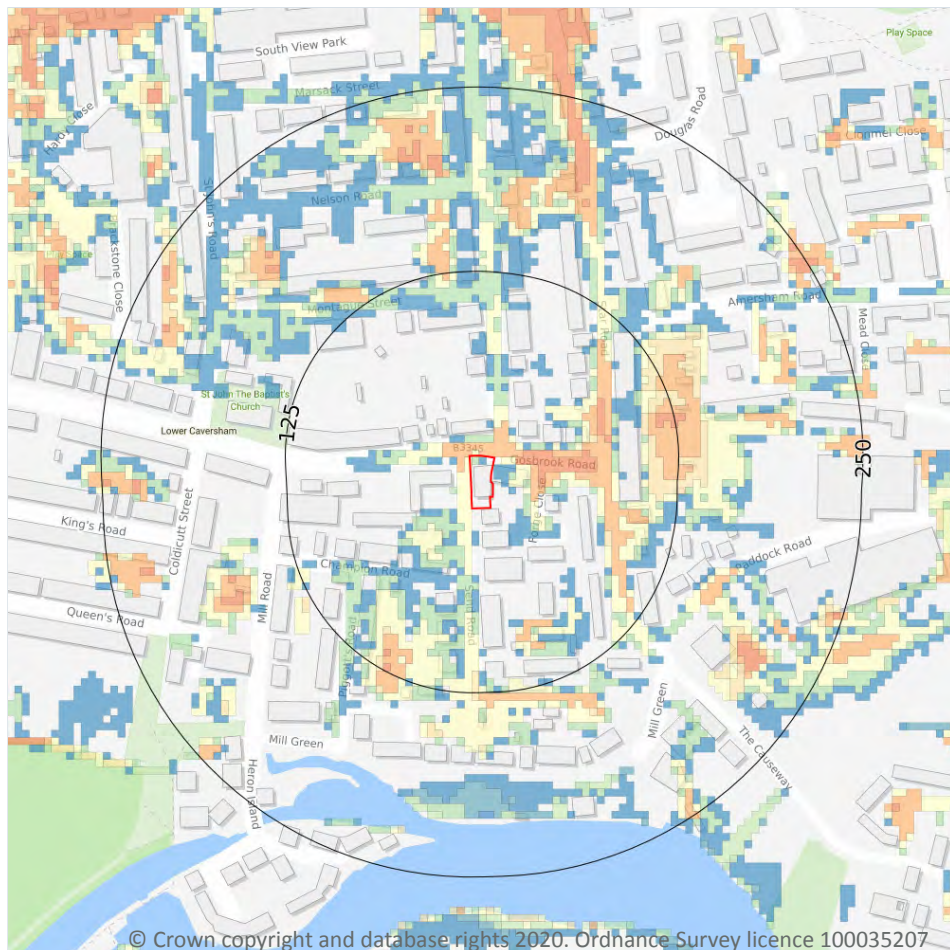
Features are displayed on the River and coastal flooding map on **page 64**

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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

Features are displayed on the Surface water flooding map on **page 70**

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

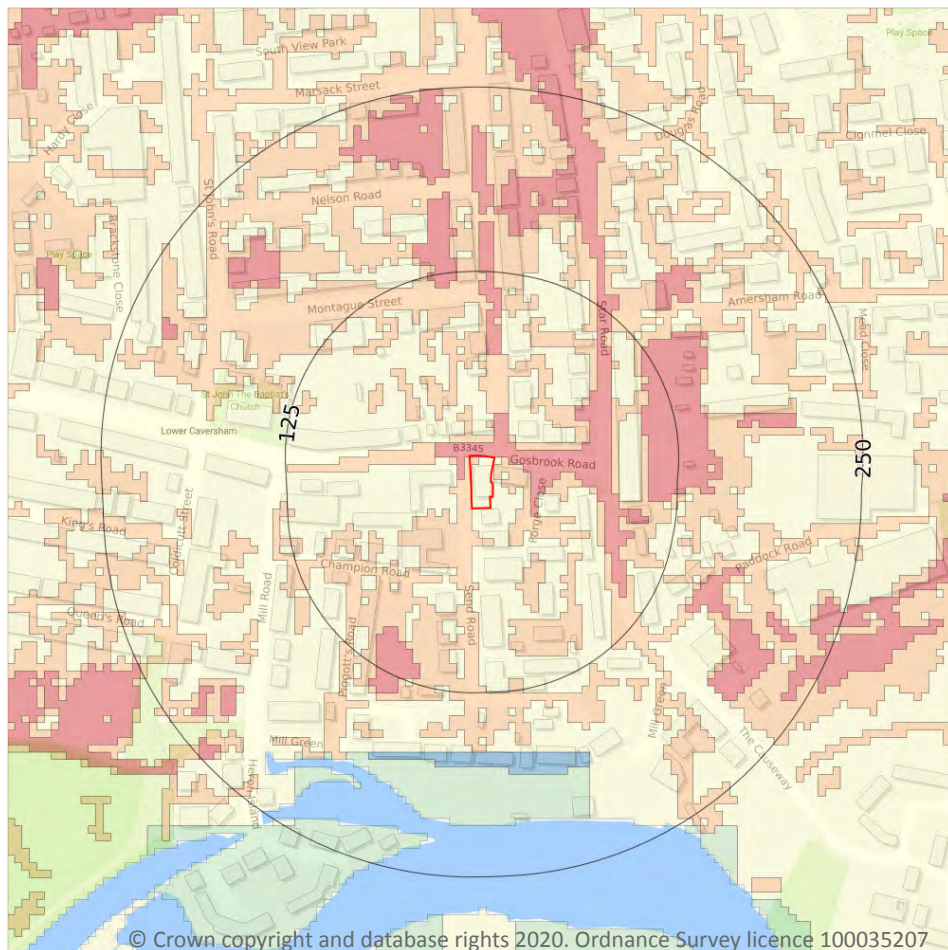
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

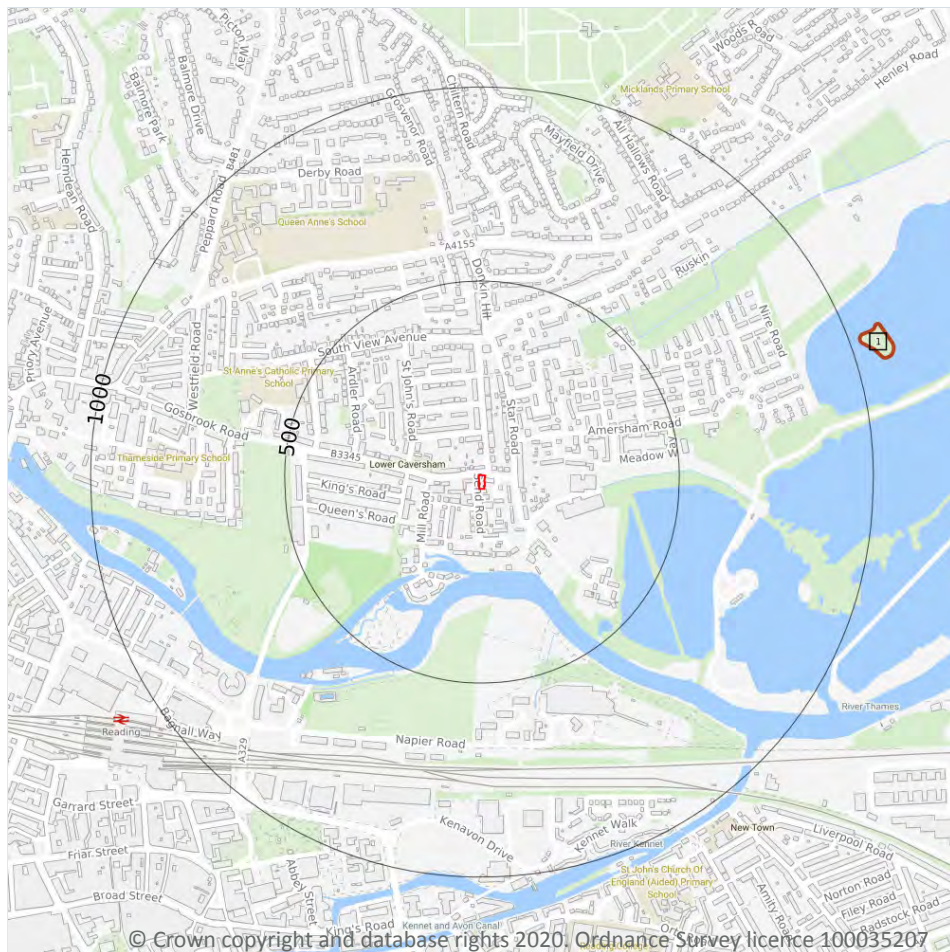
High

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 72**

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 73**

ID	Location	Name	Woodland Type
1	1027m E	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

5

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

Location	Name	Type	NVZ ID	Status
On site	Thames Wallingford to Caversham NVZ	Surface Water	S481	Existing
730m E	Sheeplands	Groundwater	G88	Existing
1457m NW	Thames Wallingford to Caversham NVZ	Surface Water	S481	Existing
1707m E	Sheeplands	Groundwater	G88	Existing
1745m N	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

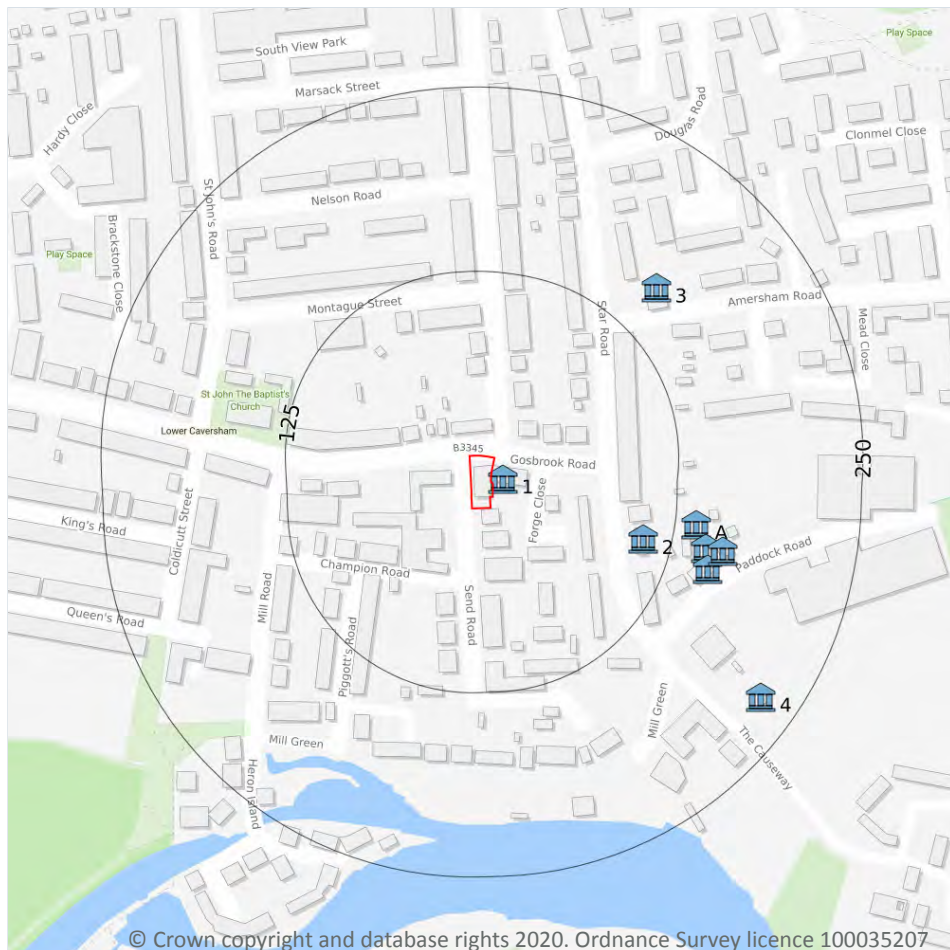
Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management 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 79**

ID	Location	Name	Grade	Reference Number	Listed date
1	7m NE	Ivy Farmhouse, Reading, RG4	II	1113490	22/03/1957
2	105m E	St John's Lodge, Reading, RG4	II	1321890	22/07/1976
A	139m E	Vaulted Structure In Garden Of No 4, Reading, RG4	II	1113553	14/12/1978
A	149m E	6, Paddock Road, Reading, RG4	II	1302883	22/07/1976
A	153m E	2 4, Paddock Road, Reading, RG4	II	1302882	22/07/1976
3	159m NE	The Red Cow Public House, Reading, RG4	II	1113588	22/07/1976



ID	Location	Name	Grade	Reference Number	Listed date
A	160m E	8, Paddock Road, Reading, RG4	II	1113554	22/07/1976
4	224m SE	Dean's Farm Cottage, Reading, RG4	II	1156224	24/11/1951

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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

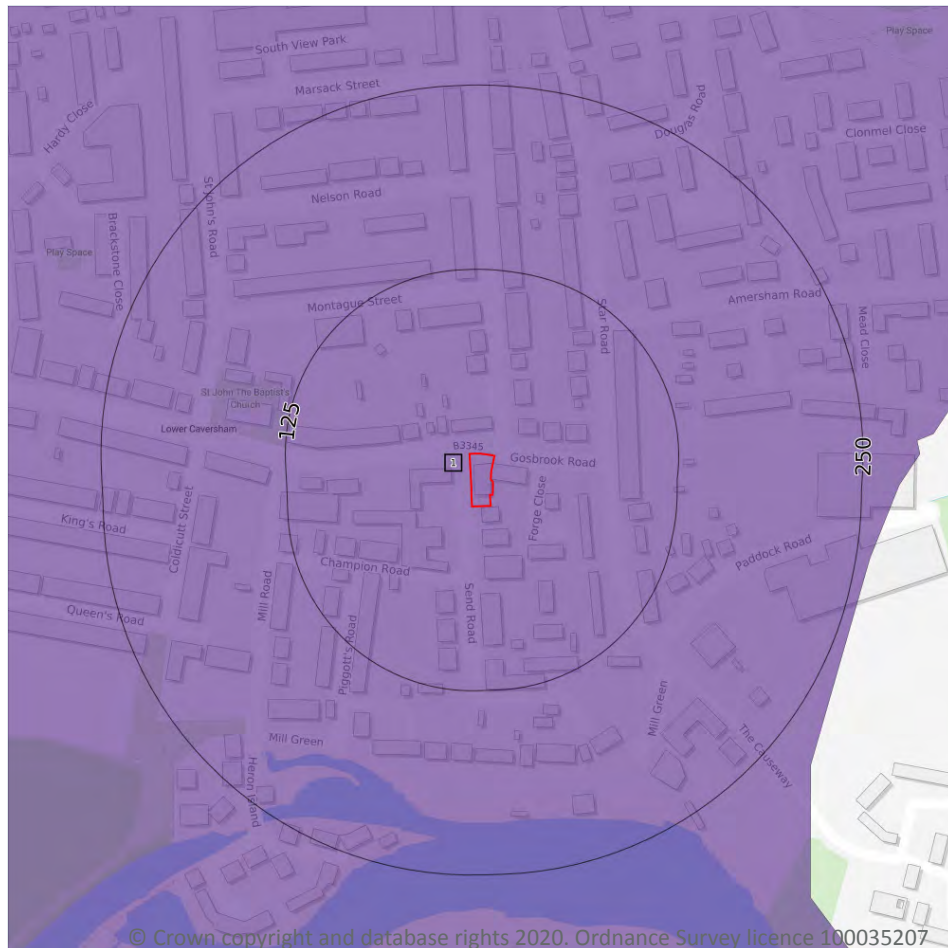
Records within 250m

0

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

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

12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

1

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

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

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.



12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m**0**

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m**0**

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m**0**

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

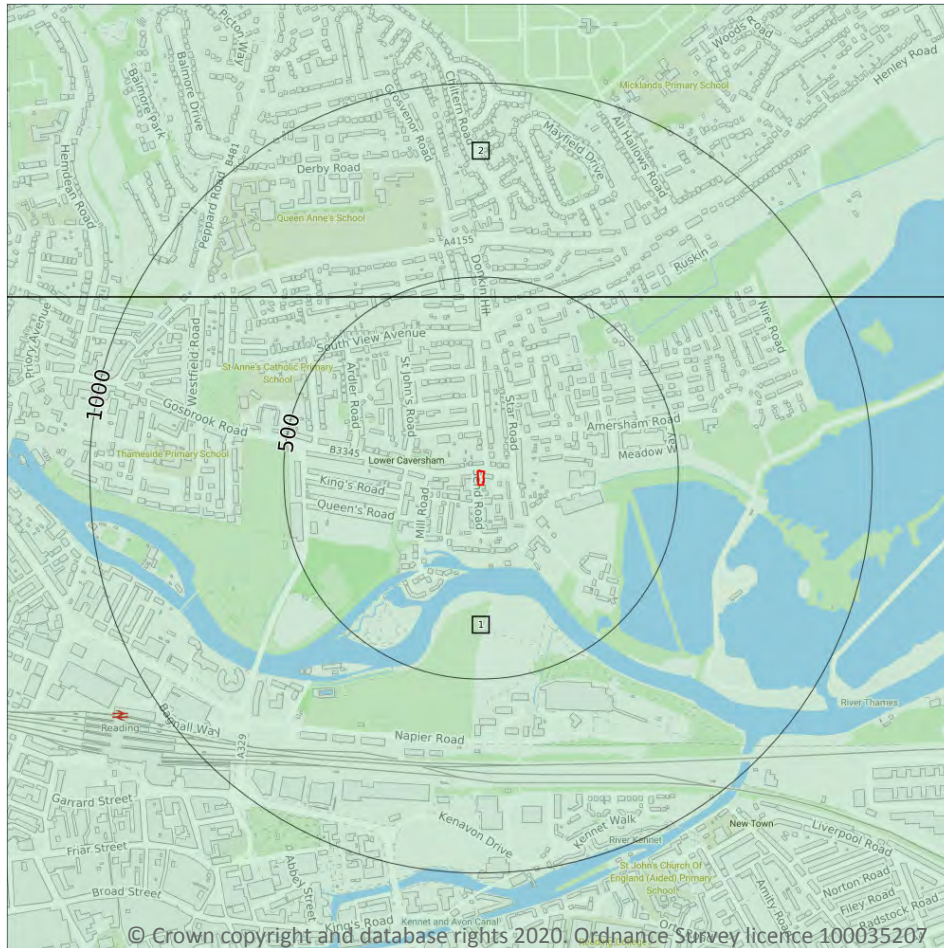
Records within 250m**0**

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Full coverage
 - Partial coverage
 - No coverage

14.1 10k Availability

Records within 500m

2

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

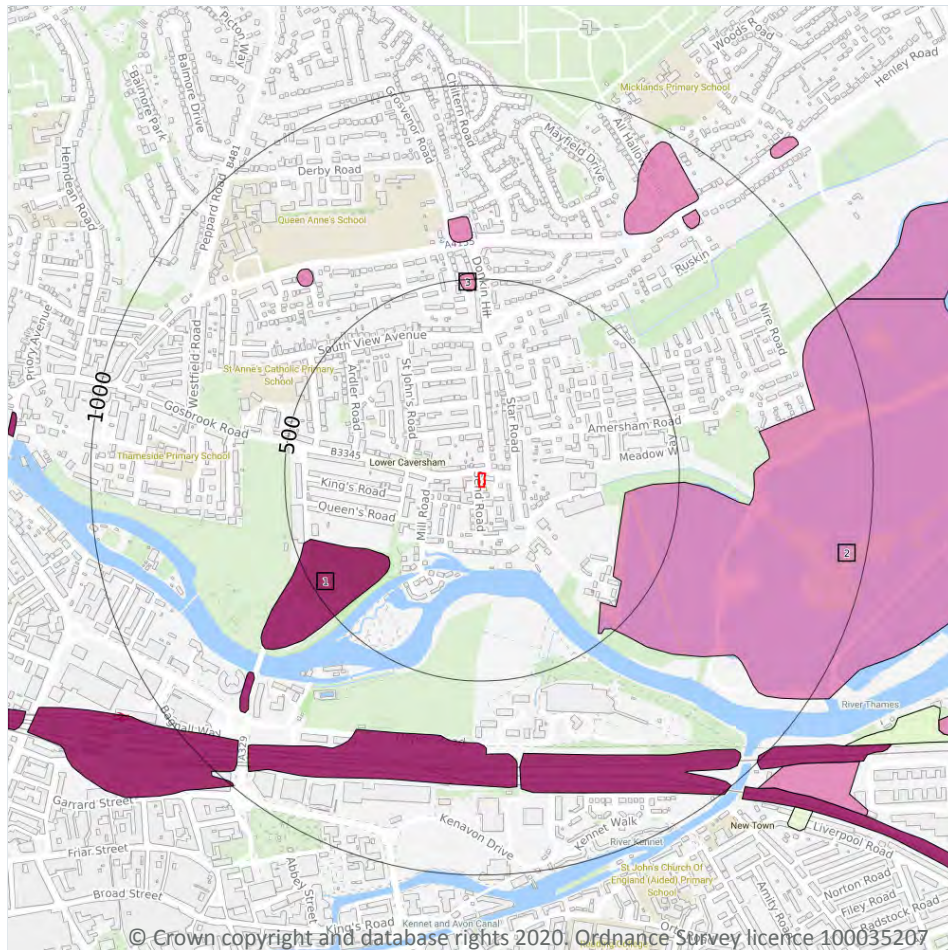
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 85**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SU77SW
2	449m N	Full	Full	Full	No coverage	SU77NW

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

3

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.

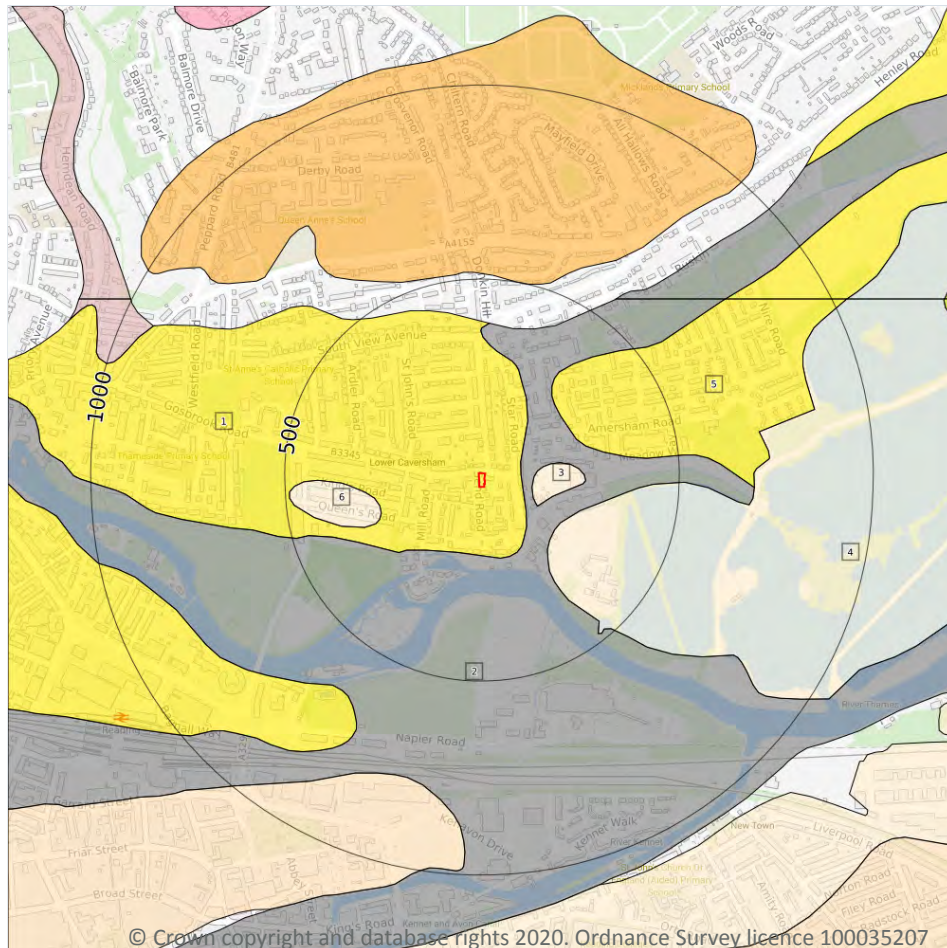
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 86**

ID	Location	LEX Code	Description	Rock description
1	296m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	361m E	WGR-VOID	Worked Ground (Undivided)	Void
3	470m N	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

6

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 87**

ID	Location	LEX Code	Description	Rock description
1	On site	LASI-XCZ	Langley Silt Member - Clay And Silt	Clay And Silt
2	92m E	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt
3	122m E	KPGR-XSV	Kempton Park Gravel Formation - Sand And Gravel	Sand And Gravel
4	213m SE	KPGR-XSV	Kempton Park Gravel Formation - Sand And Gravel	Sand And Gravel



ID	Location	LEX Code	Description	Rock description
5	244m NE	LASI-XCZ	Langley Silt Member - Clay And Silt	Clay And Silt
6	261m W	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

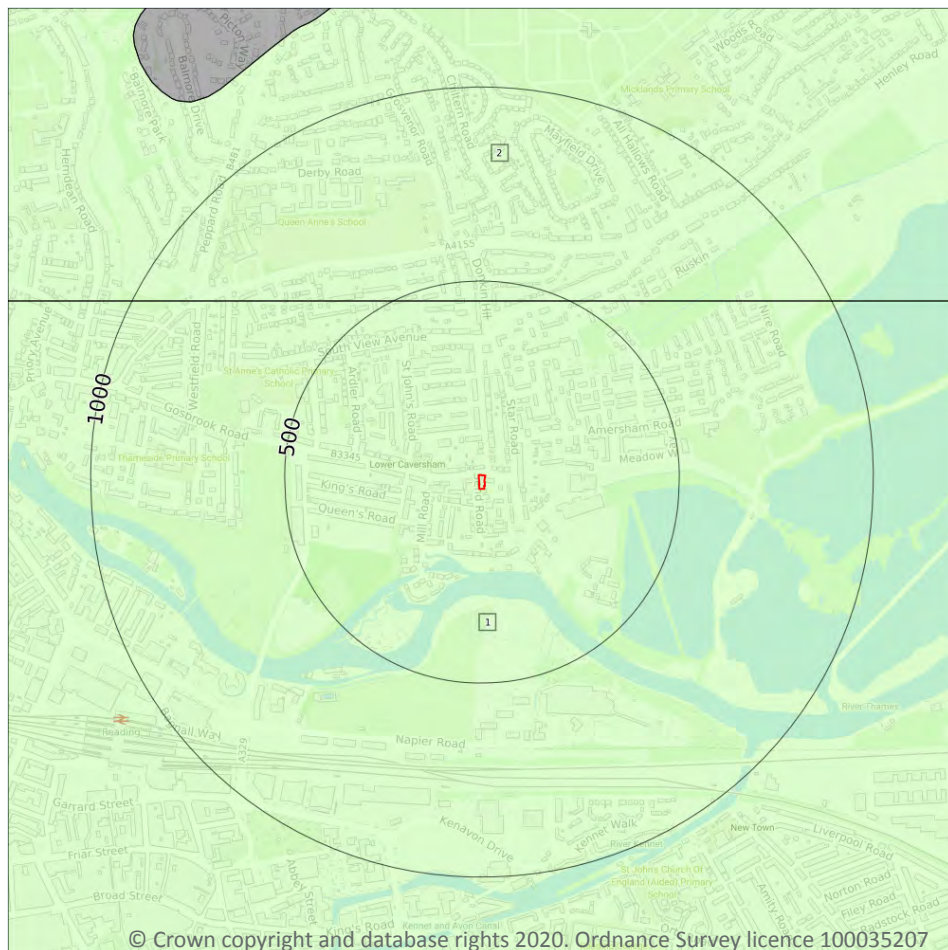
0

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

2

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 89**

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
2	449m N	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

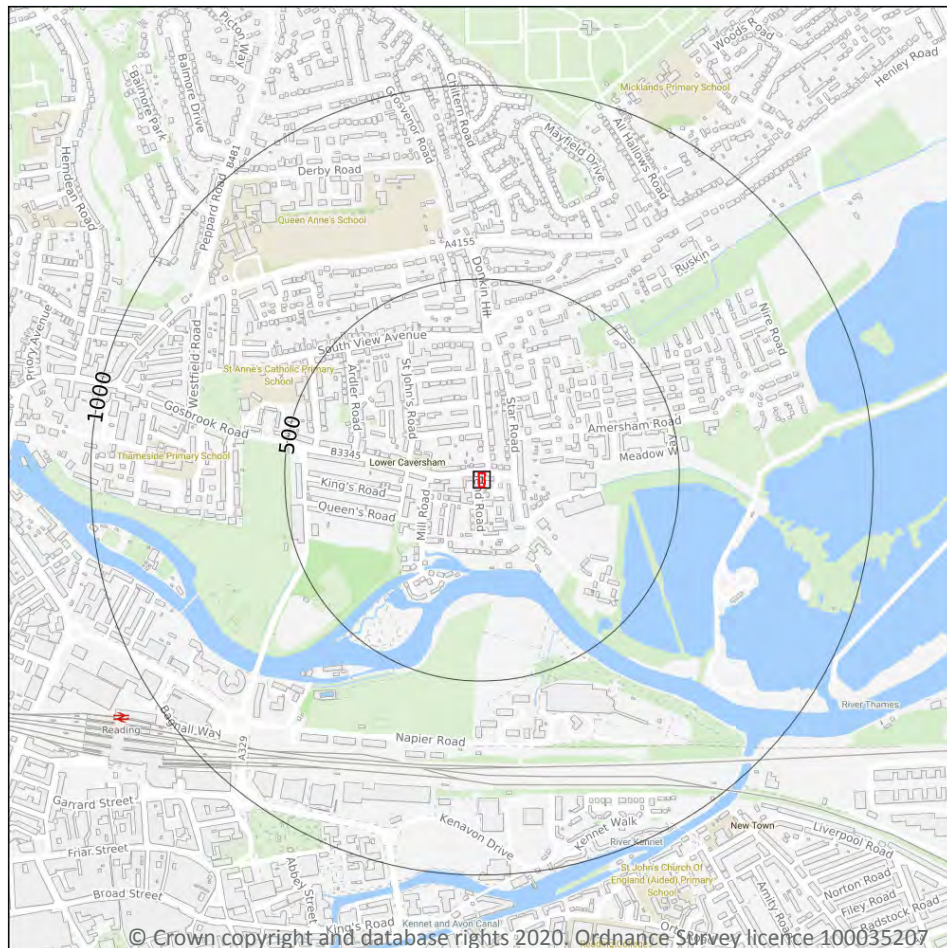
0

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.

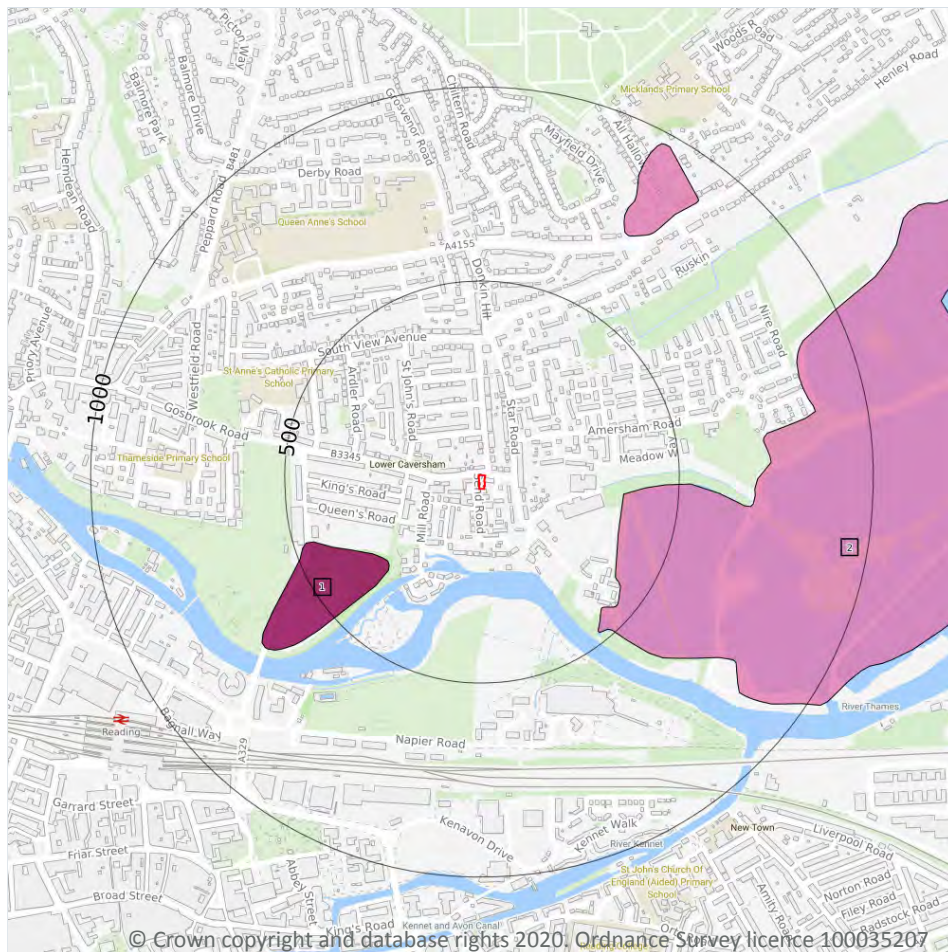
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 91**

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

2

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 92**

ID	Location	LEX Code	Description	Rock description
1	300m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	357m E	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

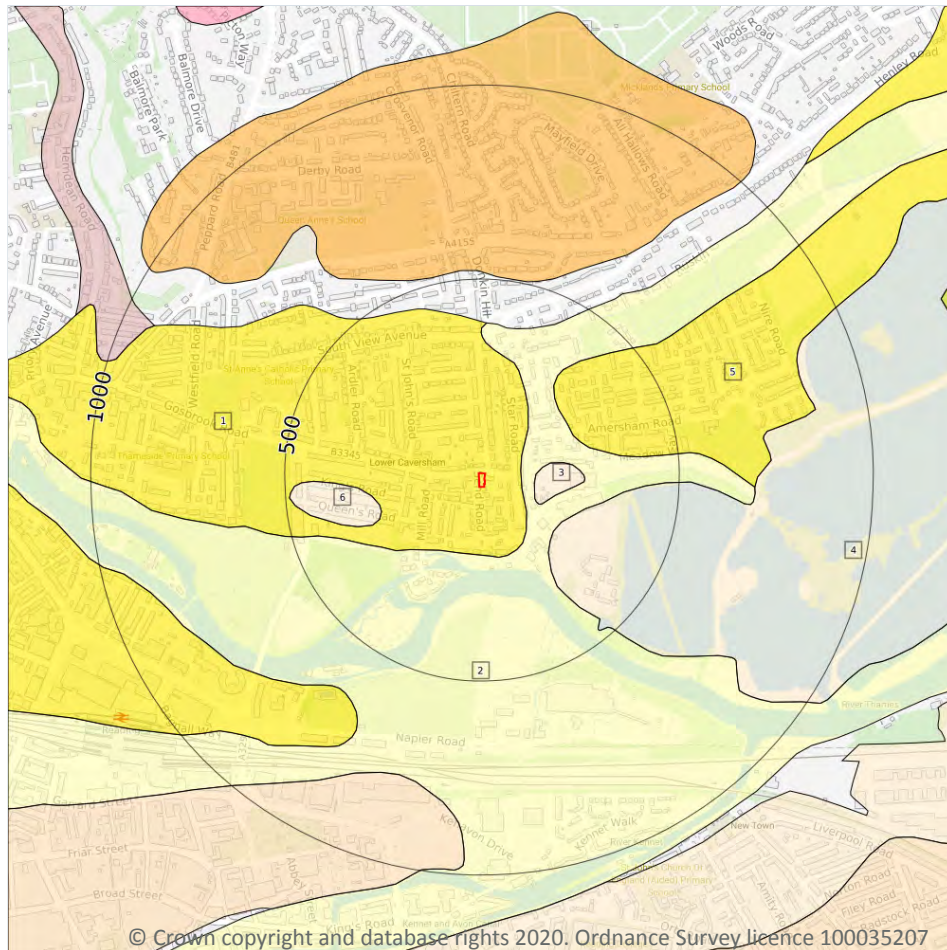
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

 Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

6

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 94**

ID	Location	LEX Code	Description	Rock description
1	On site	LASI-XCZ	LANGLEY SILT MEMBER	CLAY AND SILT
2	92m E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	128m E	KPGR-XSV	KEMPTON PARK GRAVEL MEMBER	SAND AND GRAVEL
4	212m SE	KPGR-XSV	KEMPTON PARK GRAVEL MEMBER	SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
5	247m NE	LASI-XCZ	LANGLEY SILT MEMBER	CLAY AND SILT
6	260m W	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

1

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

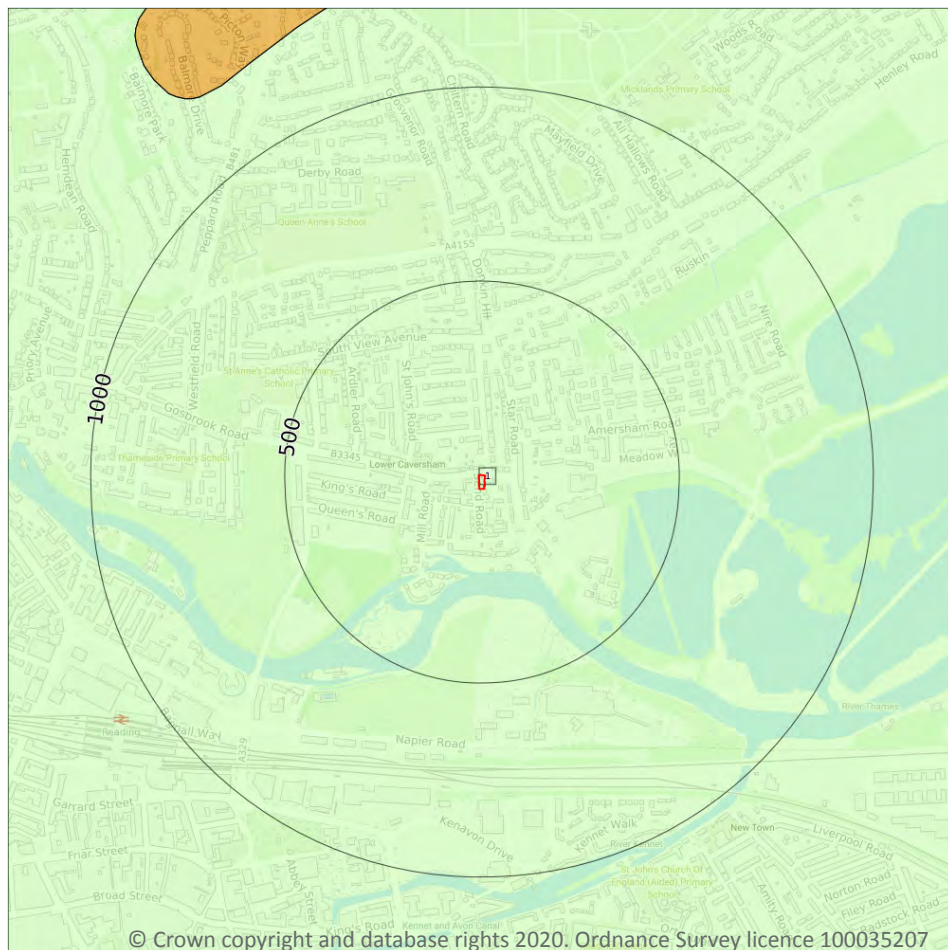
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

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 96**

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

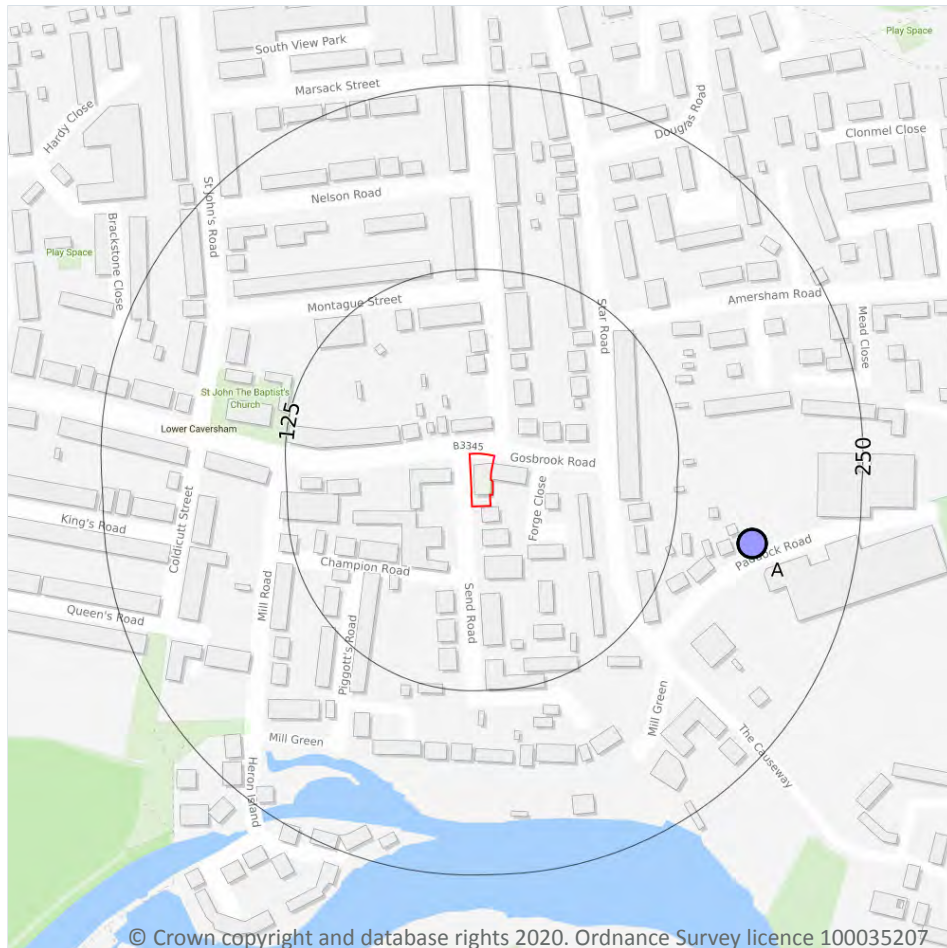
0

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

16.1 BGS Boreholes

Records within 250m

2

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 98**

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	179m E	472560 174490	8 PADDOCK RD CAVERSHAM	3.05	N	428803
A	179m E	472560 174490	6 PADDOCK RD CAVERSHAM	-2.0	N	428804

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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

17.1 Shrink swell clays

Records within 50m

1

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

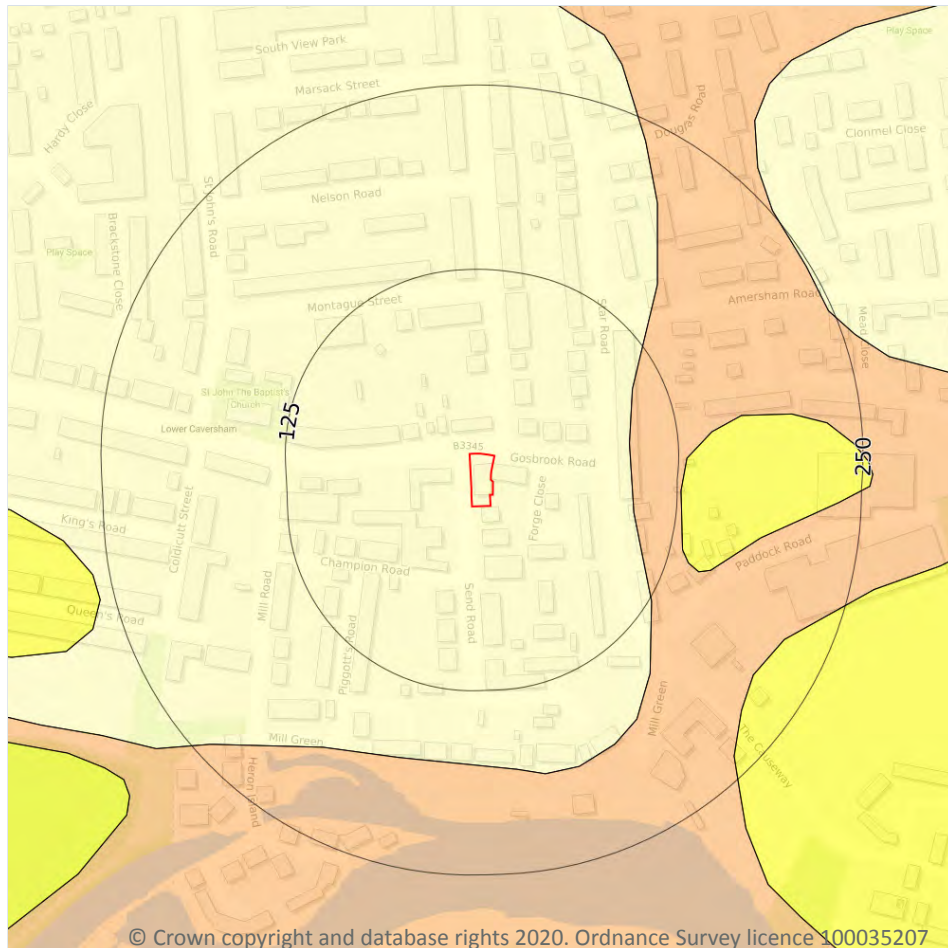
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 99**

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

1

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

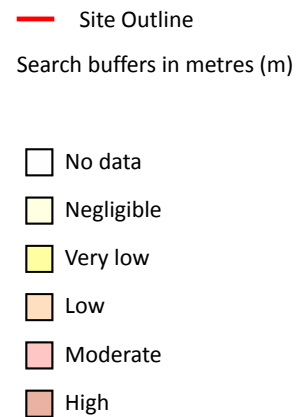
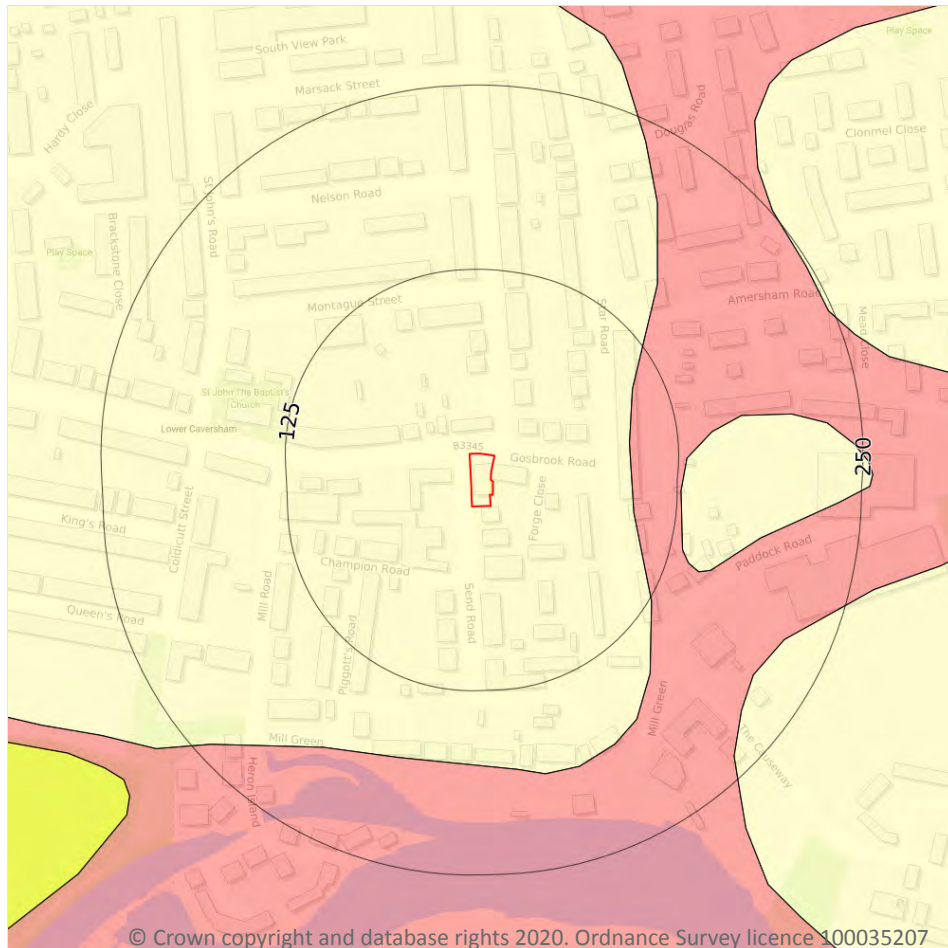
Features are displayed on the Natural ground subsidence - Running sands map on **page 100**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

1

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

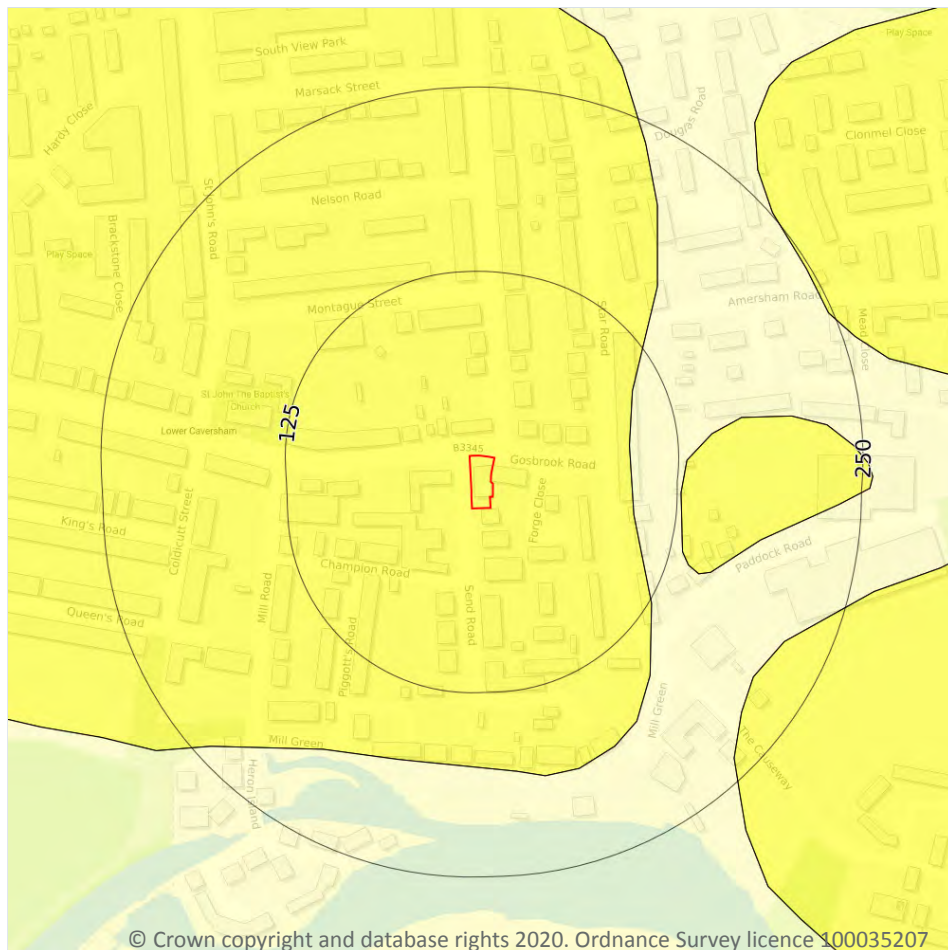
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 101**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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

17.4 Collapsible deposits

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 102**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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

17.5 Landslides

Records within 50m

1

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

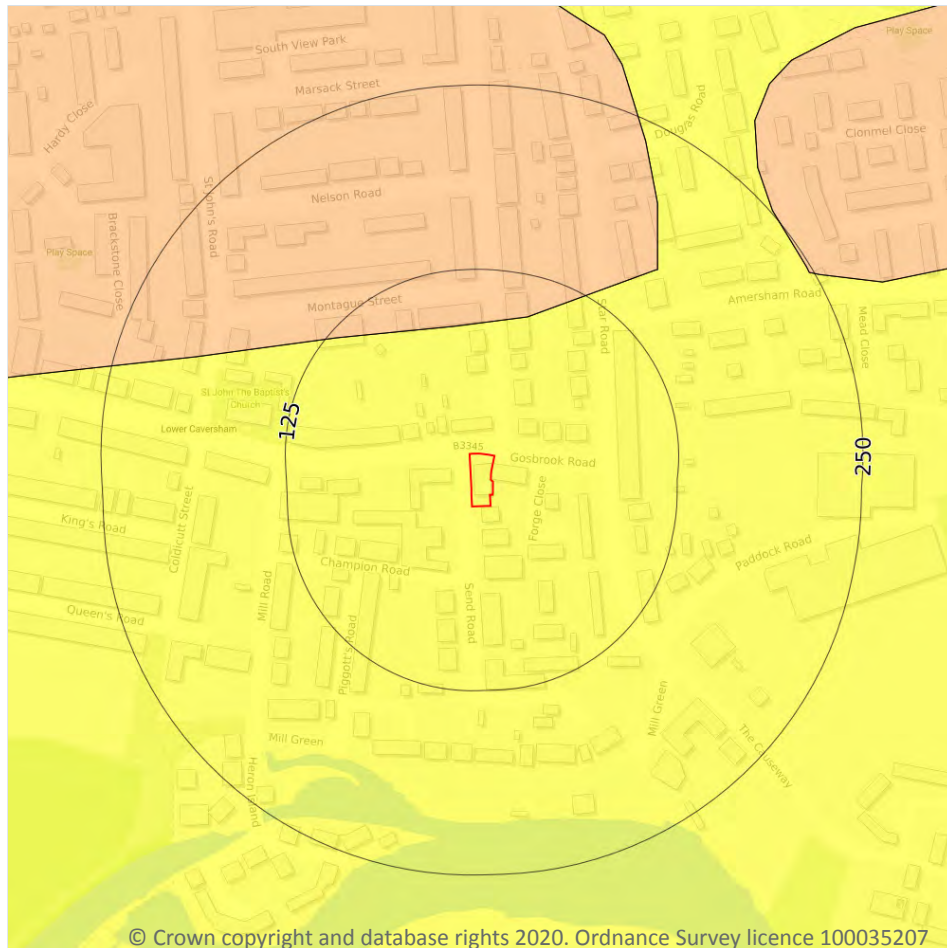
Features are displayed on the Natural ground subsidence - Landslides map on **page 103**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



- 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 104**

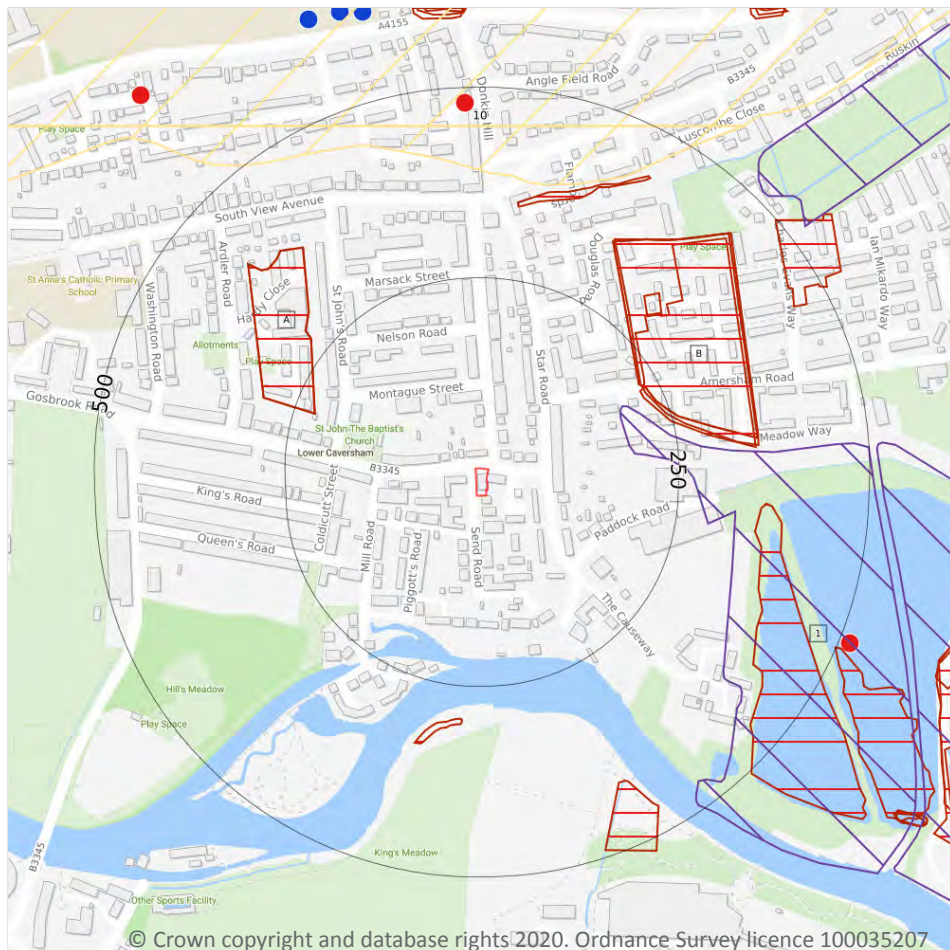
Location	Hazard rating	Details
On site	Very low	Soluble rocks are present within the ground. Few dissolution features are likely to be present. Potential for difficult ground conditions or localised subsidence are at a level where they need not be considered.



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

0

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

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

18.2 BritPits

Records within 500m

1

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 106**

ID	Location	Details	Description
10	479m N	Name: Ardmillan Chalk Pit Address: CAVERSHAM, Berkshire Commodity: Chalk Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

6

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 106**

ID	Location	Land Use	Year of mapping	Mapping scale
A	223m W	Water Body	1938	1:10560
A	223m W	Water Body	1910	1:10560
B	224m NE	Sewage Works	1900	1:10560
B	227m NE	Sewage Works	1938	1:10560
B	227m NE	Sewage Works	1910	1:10560
B	229m NE	Sewage Works	1897	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.4 Underground workings

Records within 1000m**0**

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

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m**1**

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 106**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
1	186m E	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**3**

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 106**

ID	Location	Name	Commodity	Class	Likelihood
6	379m N	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
8	449m N	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



ID	Location	Name	Commodity	Class	Likelihood
-	967m SW	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

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

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

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

18.8 JPB mining areas

Records on site

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

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

18.11 Gypsum areas

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

This data is sourced from British Gypsum.

18.12 Tin mining

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

This data is sourced from Mining Searches UK.

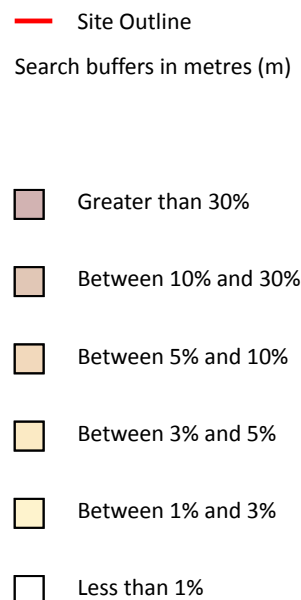
18.13 Clay mining

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

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

19 Radon



19.1 Radon

Records on site

1

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

Features are displayed on the Radon map on **page 111**

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

2

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
15m 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

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

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**0**

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.

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m**0**

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



This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

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



Appendix E Table of Estimated Risk

Receptor	Receptor Sensitivity ('0' if not present)	Pathway	Present (Y=1, N=0)	EPH & Solvents	PAHs	Inorganics and Metals	Asbestos	Biocides	Permanent Gases	Consequence	Probability/ Likelihood	Estimated Risk
Human Health - On-Site Current Users	4	Ingestion of fruit or vegetable leaf or roots	0	✓	✓	✓	x	✓	x	N/A	N/A	N/A
		Ingestion of contaminated drinking water	0	✓	✓	x	x	✓	x	N/A	Unlikely	N/A
		Ingestion of water / sediments when swimming	0	✓	✓	✓	✓	✓	x	N/A	N/A	N/A
		Ingestion of soil/dust indoors	1	✓	✓	✓	✓	✓	x	Mild	Unlikely	Very Low
		Ingestion of soil/dust outdoors	1	✓	✓	✓	✓	✓	x	Mild	Unlikely	Very Low
		Inhalation of particles (dust / soil) indoor and outdoor	1	✓	✓	✓	✓	✓	x	Mild	Unlikely	Very Low
		Inhalation of vapours/gases – outdoor	1	✓	x	x	x	x	✓	Mild	Unlikely	Very Low
		Inhalation of vapours/gases - indoor	1	✓	x	x	x	x	✓	Mild	Unlikely	Very Low
		Dermal absorption via direct contact with soil	1	✓	✓	✓	✓	✓	x	Mild	Unlikely	Very Low
Human Health On-Site Future User	5	Dermal absorption via waters (swimming / showering)	0	✓	✓	✓	✓	✓	x	N/A	N/A	N/A
		Ingestion of fruit or vegetable leaf or roots	1	✓	✓	✓	x	✓	x	Medium	Unlikely	Low
		Ingestion of contaminated drinking water	0	✓	✓	x	x	✓	x	N/A	N/A	N/A
		Ingestion of water / sediments when swimming	0	✓	✓	x	x	✓	x	N/A	N/A	N/A
		Ingestion of soil/dust indoors	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Ingestion of soil/dust outdoors	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Inhalation of particles (dust / soil) indoor and outdoor	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Inhalation of vapours – outdoor	1	✓	x	x	x	x	✓	Medium	Unlikely	Low
		Inhalation of vapours - indoor	1	✓	x	x	x	x	✓	Medium	Unlikely	Low
Human Health - Neighbours	5	Dermal absorption via direct contact with soil	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Dermal absorption via waters (swimming / showering)	0	✓	✓	✓	✓	✓	x	N/A	N/A	N/A
		Ingestion of fruit or vegetable leaf or roots	0	✓	✓	✓	x	✓	x	N/A	N/A	N/A
		Ingestion of contaminated drinking water	0	✓	✓	x	x	✓	x	N/A	N/A	N/A
		Ingestion of water / sediments when swimming	0	✓	✓	x	x	✓	x	N/A	N/A	N/A
		Ingestion of soil/dust indoors	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Ingestion of soil/dust outdoors	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Inhalation of particles (dust / soil) indoor and outdoor	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Inhalation of vapours – outdoor	1	✓	x	x	x	x	✓	Medium	Unlikely	Low
Human Health - Construction/ Maintenance Workers	5	Inhalation of vapours - indoor	1	✓	x	x	x	x	✓	Medium	Unlikely	Low
		Dermal absorption via direct contact with soil	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Dermal absorption via waters (swimming / showering)	0	✓	✓	✓	✓	✓	x	N/A	N/A	N/A
		Ingestion of soil/dust indoors	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Ingestion of soil/dust outdoors	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Inhalation of particles (dust / soil) outdoor	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
Groundwater (Shallow)	2	Inhalation of vapours – outdoor	1	✓	x	x	x	x	✓	Medium	Unlikely	Low
		Inhalation of vapours - indoor	1	✓	x	x	x	x	✓	Medium	Unlikely	Low
Groundwater (Deep)	3	Dermal absorption via direct contact with soil	1	✓	✓	✓	✓	✓	x	Medium	Unlikely	Low
		Leaching	1	✓	✓	✓	x	✓	x	Minor	Unlikely	Very Low
Surface Water	2	Migration via natural or anthropogenic	1	✓	✓	✓	x	✓	x	Minor	Unlikely	Very Low
		Direct runoff or discharges from pipes	1	✓	✓	✓	✓	✓	x	Minor	Unlikely	Very Low
		Indirect via recharge from groundwater (hydraulic flow)	1	✓	✓	✓	✓	✓	x	Minor	Unlikely	Very Low
Property - Buildings	4	Deposition of wind blown dust	1	✓	✓	✓	✓	✓	x	Minor	Unlikely	Very Low
		Direct contact	1	✓	✓	✓	x	x	x	Mild	Unlikely	Very Low
Ecological Systems	0	Explosion due to gas migration via natural / anthropogenic	0	x	x	x	x	x	x	N/A	N/A	N/A
		Direct deposition of particles / dust - wind blown or flood	0	x	x	x	x	x	x	N/A	N/A	N/A
		Indirect - through watering	0	✓	✓	✓	x	✓	x	N/A	N/A	N/A
		Inhalation of gases/vapours or particulates/dust by animals	0	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A
		Ingestion of vegetation / water / soil by animals	0	✓	✓	✓	✓	✓	x	N/A	N/A	N/A
Property - Animal/Crop	0	Direct (including deposition via wind or flood)	0	✓	✓	✓	✓	✓	x	N/A	N/A	N/A
		Indirect (through watering)	0	✓	✓	✓	x	✓	x	N/A	N/A	N/A
		Inhalation of gas / vapour / particulates / dust by animals	0	✓	✓	✓	✓	✓	✓	N/A	N/A	N/A
		Ingestion of vegetation / water / soil by animals	0	✓	✓	✓	✓	✓	x	N/A	N/A	N/A

Risk estimation establishes the magnitude and probability of the possible consequences (what degree of harm might result and how likely).
The criteria for classifying probability and consequence are set out in Tables 4 and 5 of the Stantec methodology.
Green text highlights one or more elements of the Pollutant Linkage are missing and therefore eliminated

EPH = Extractable hydrocarbons
PAHs = Poly Aromatic Hydrocarbons
Note For Metals there is an Inhalation pathway if Mercury is present
Note for PAHs there are Inhalation and/or Solubility pathways for some eg Naphthalene

	Client Clearbell Capital LLP	389 Gosbrook Road, Lower Caversham, Reading TABLE SUMMARISING POLLUTANT LINKAGES AND RISK ESTIMATION			Date	23/11/2020
					A3 Scale	NTS
					Drawn By	GS
					Checked By	AZ
Caversham Bridge House, Waterman Place, Reading, RG1 8DN Tel 0118 950 0761 Fax 0118 959 7499		HAZARD CLASSIFICATION	2	THE POTENTIAL CONTAMINANTS OF CONCERN ARE :- Agrochemicals, hydrocarbons (TPH & PAH), heavy metals, sulphate, possible asbestos containing materials		

