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514587, 204575

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Report Ref: GS-8175188
Grid Ref: 514566, 204528

Map Name: National Grid

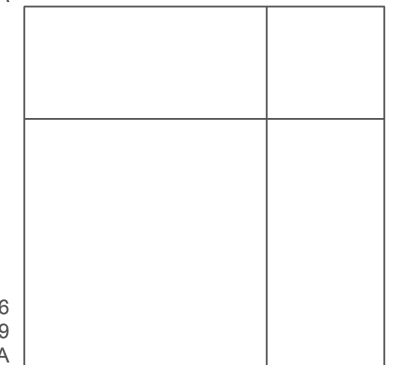
Map date: 1989-1991

Scale: 1:10,000

Printed at: 1:10,000



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 Revised 1989
 Edition N/A
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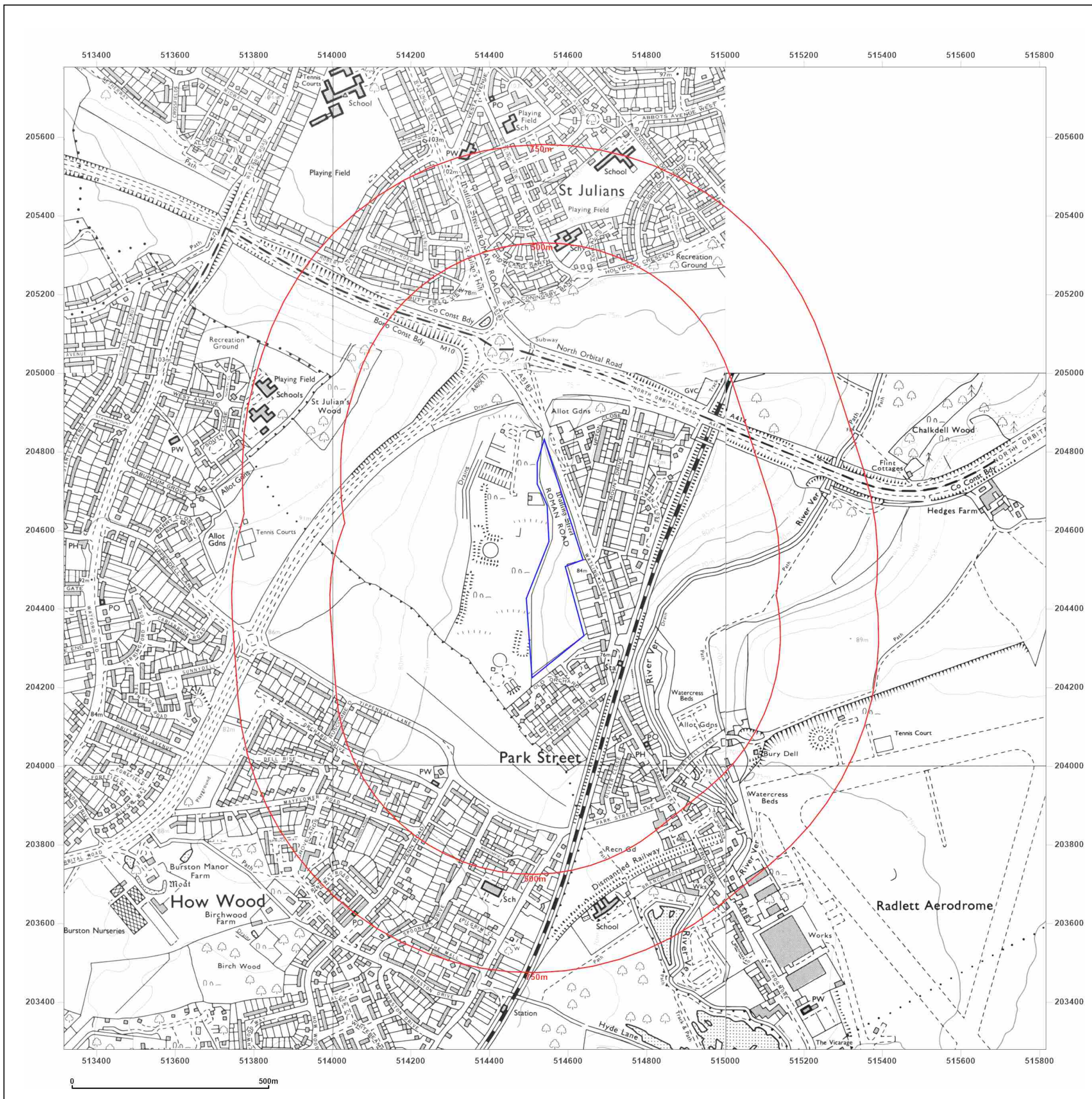


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Site Details:

514587, 204575

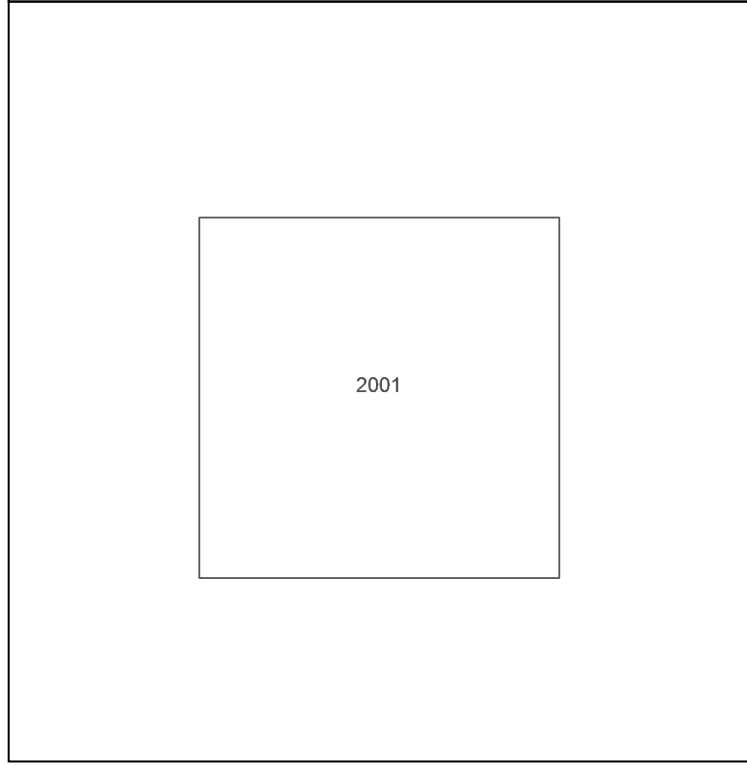
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Grid Ref: 514566, 204528

Map Name: National Grid

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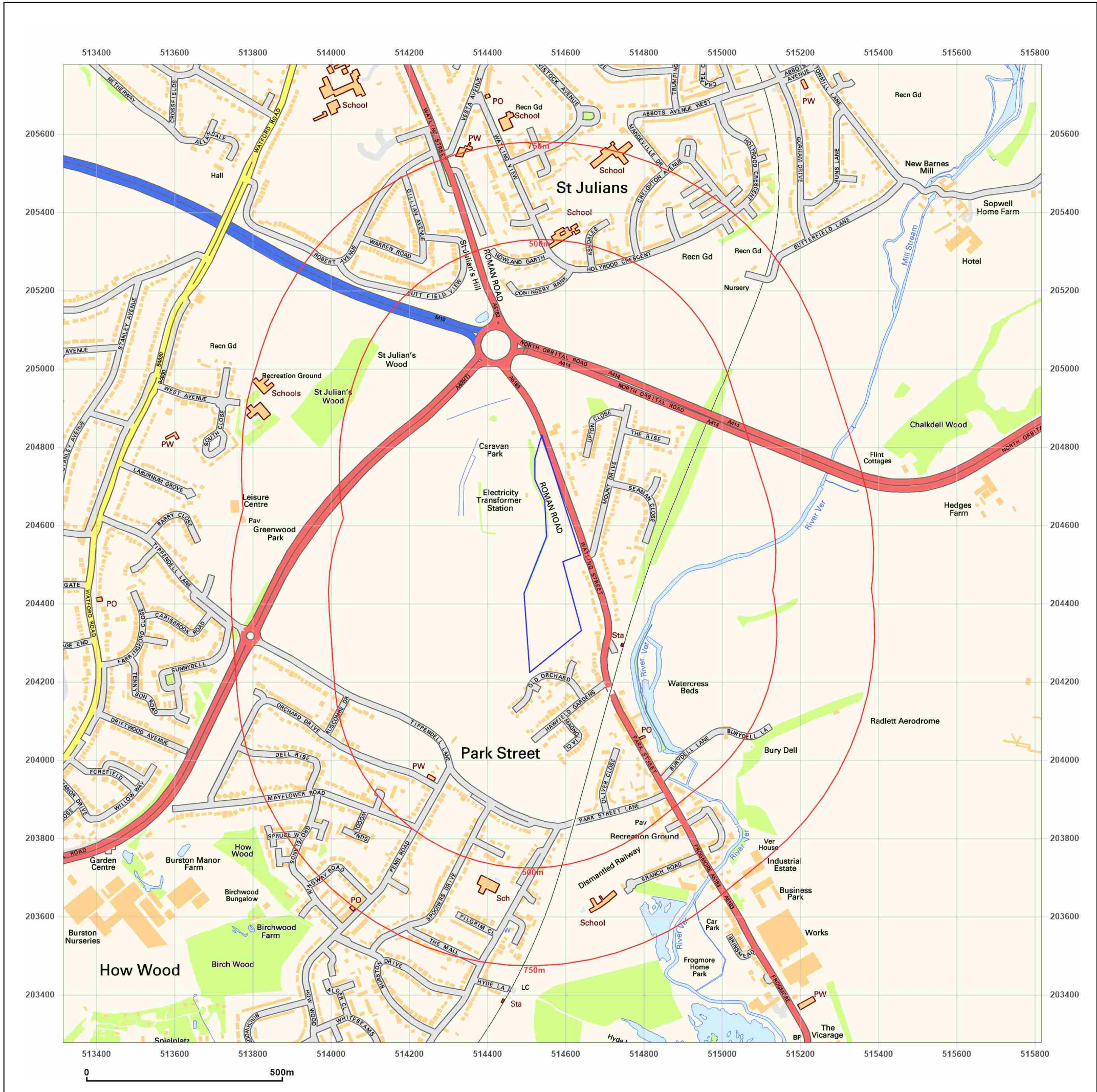


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Site Details:

514587, 204575

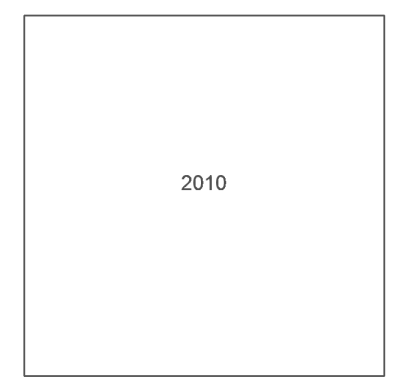
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Grid Ref: 514566, 204528

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Map date: 2010

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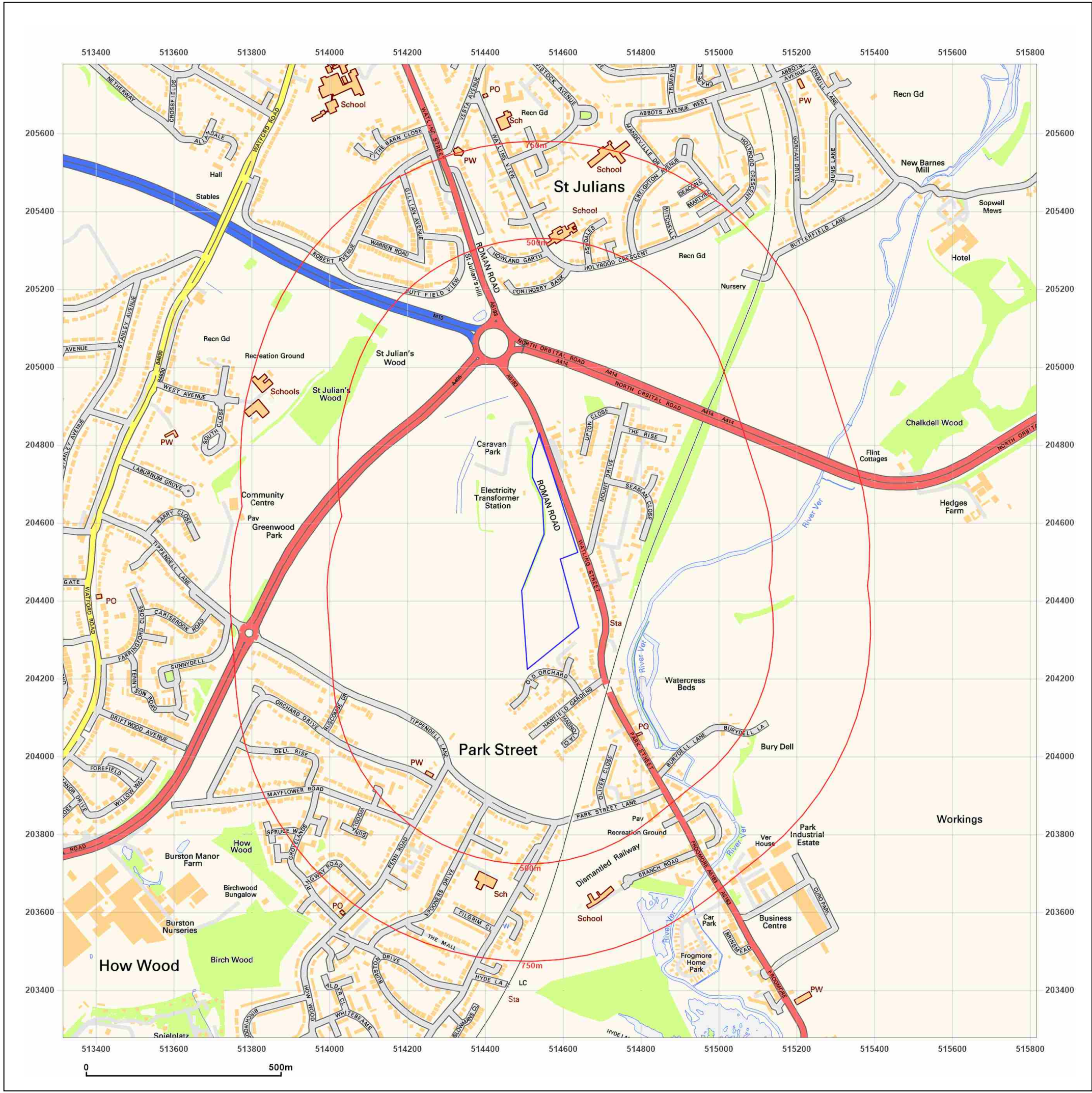


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Site Details:

514587, 204575

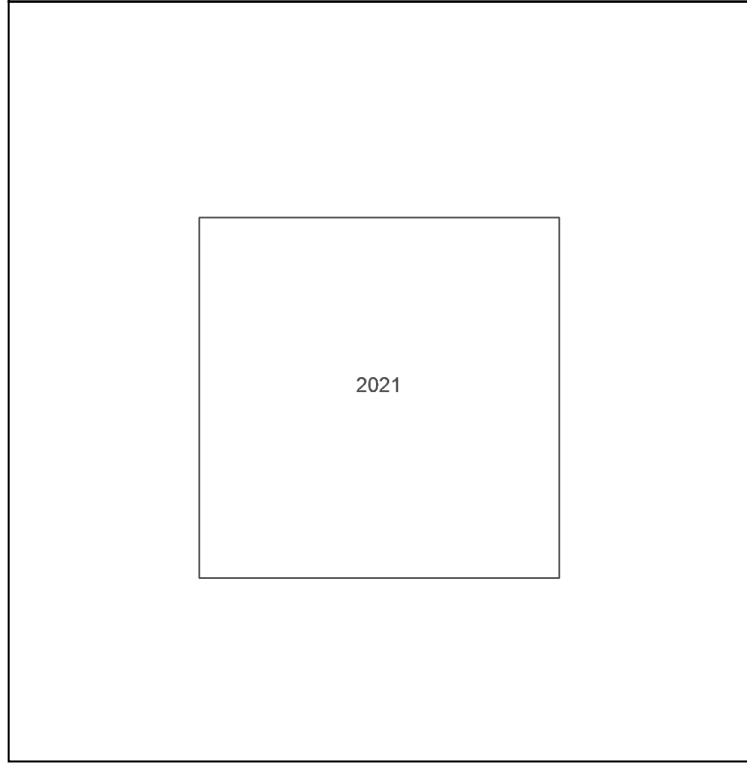
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Report Ref: GS-8175188
Grid Ref: 514566, 204528

Map Name: National Grid

Map date: 2021

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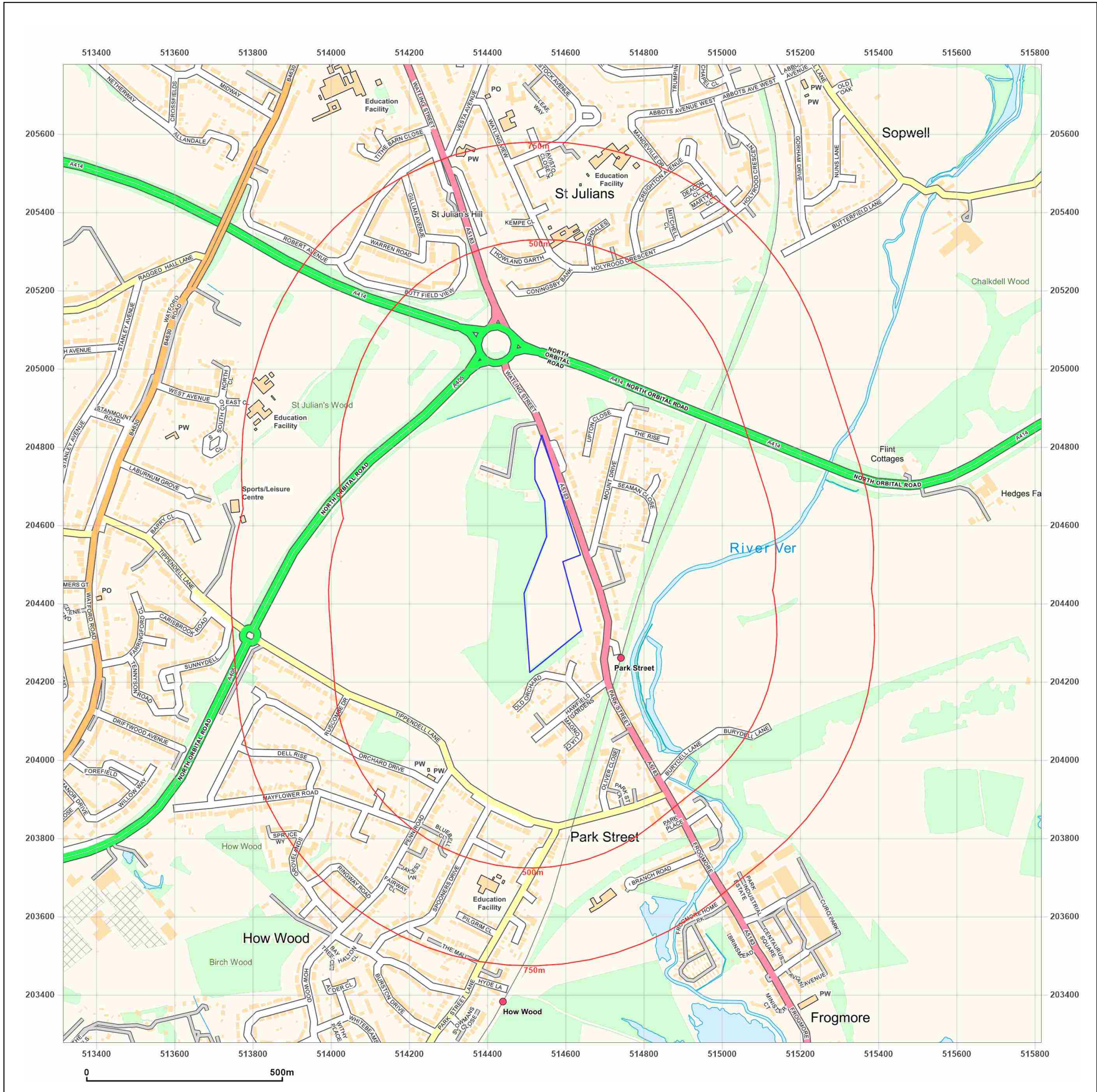


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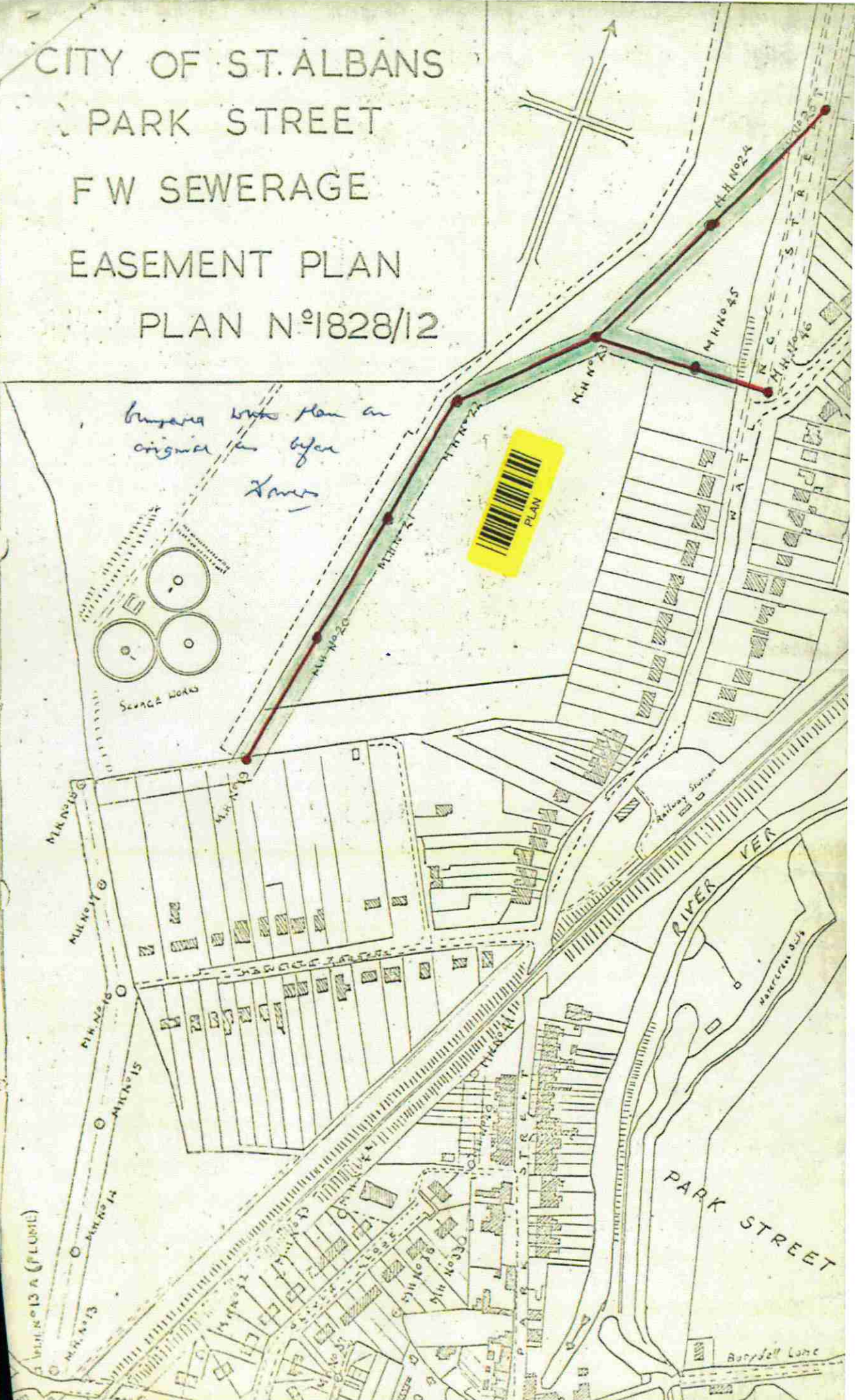
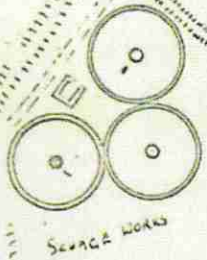
Production date: 07 September 2021

Map legend available at:
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CITY OF ST. ALBANS
PARK STREET
F W SEWERAGE
EASEMENT PLAN
PLAN N°1828/12

*Compare with plan in
original in office
Lanes*



Appendix D Desk Study Research Information

Groundsure Enviro Insight

514587, 204575

Order Details

Date: 07/09/2021
Your ref: PO-09620-C-20880-C
Our Ref: GS-8175189
Client: Hydrock Consultants Ltd

Site Details

Location: 514588 204575
Area: 4.49 ha
Authority: [St Albans City and District Council](#)



Summary of findings

p. 2 **Aerial image**

p. 8

OS MasterMap site plan

p.12 groundsure.com/insightuserguide

Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	<u>Historical industrial land uses</u>	7	2	48	15	-
16	1.2	<u>Historical tanks</u>	0	2	11	0	-
17	1.3	<u>Historical energy features</u>	0	5	2	2	-
18	1.4	Historical petrol stations	0	0	0	0	-
18	1.5	<u>Historical garages</u>	0	1	0	0	-
18	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
19	2.1	<u>Historical industrial land uses</u>	8	2	57	19	-
23	2.2	<u>Historical tanks</u>	0	3	18	0	-
24	2.3	<u>Historical energy features</u>	0	6	2	4	-
24	2.4	Historical petrol stations	0	0	0	0	-
25	2.5	<u>Historical garages</u>	0	3	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
26	3.1	Active or recent landfill	0	0	0	0	-
26	3.2	Historical landfill (BGS records)	0	0	0	0	-
27	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
27	3.4	<u>Historical landfill (EA/NRW records)</u>	1	0	0	0	-
27	3.5	Historical waste sites	0	0	0	0	-
27	3.6	Licensed waste sites	0	0	0	0	-
28	3.7	<u>Waste exemptions</u>	0	0	0	43	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
32	4.1	<u>Recent industrial land uses</u>	0	3	7	-	-
33	4.2	<u>Current or recent petrol stations</u>	0	0	1	0	-
33	4.3	Electricity cables	0	0	0	0	-
34	4.4	Gas pipelines	0	0	0	0	-
34	4.5	Sites determined as Contaminated Land	0	0	0	0	-



34	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
34	4.7	Regulated explosive sites	0	0	0	0	-
34	4.8	Hazardous substance storage/usage	0	0	0	0	-
35	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
35	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
35	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	1	0	2	-
36	4.12	Radioactive Substance Authorisations	0	0	0	0	-
36	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	3	-
36	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
37	4.15	Pollutant release to public sewer	0	0	0	0	-
37	4.16	List 1 Dangerous Substances	0	0	0	0	-
37	4.17	List 2 Dangerous Substances	0	0	0	0	-
37	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	0	6	-
38	4.19	Pollution inventory substances	0	0	0	0	-
38	4.20	Pollution inventory waste transfers	0	0	0	0	-
39	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
40	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
42	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
44	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
45	5.4	<u>Groundwater vulnerability- soluble rock risk</u>	Identified (within 0m)				
45	5.5	Groundwater vulnerability- local information	None (within 0m)				
46	5.6	<u>Groundwater abstractions</u>	0	0	1	1	6
49	5.7	Surface water abstractions	0	0	0	0	0
49	5.8	<u>Potable abstractions</u>	0	0	0	0	2
50	5.9	<u>Source Protection Zones</u>	1	0	0	1	-
50	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
51	6.1	<u>Water Network (OS MasterMap)</u>	0	0	4	-	-



52	6.2	<u>Surface water features</u>	0	0	2	-	-
52	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
53	6.4	<u>WFD Surface water bodies</u>	0	0	1	-	-
53	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
54	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
55	7.2	<u>Historical Flood Events</u>	0	0	1	-	-
55	7.3	Flood Defences	0	0	0	-	-
55	7.4	<u>Areas Benefiting from Flood Defences</u>	0	0	1	-	-
56	7.5	Flood Storage Areas	0	0	0	-	-
57	7.6	Flood Zone 2	None (within 50m)				
57	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
58	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
60	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
61	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	0	1
62	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
62	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
62	10.4	Special Protection Areas (SPA)	0	0	0	0	0
62	10.5	National Nature Reserves (NNR)	0	0	0	0	0
63	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	1
63	10.7	<u>Designated Ancient Woodland</u>	0	0	0	1	3
63	10.8	Biosphere Reserves	0	0	0	0	0
64	10.9	Forest Parks	0	0	0	0	0
64	10.10	Marine Conservation Zones	0	0	0	0	0
64	10.11	<u>Green Belt</u>	1	0	0	0	0
64	10.12	Proposed Ramsar sites	0	0	0	0	0



65	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
65	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
65	10.15	Nitrate Sensitive Areas	0	0	0	0	0
65	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
66	<u>10.17</u>	<u>SSSI Impact Risk Zones</u>	2	-	-	-	-
67	<u>10.18</u>	<u>SSSI Units</u>	0	0	0	0	1
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
68	11.1	World Heritage Sites	0	0	0	-	-
69	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
69	11.3	National Parks	0	0	0	-	-
69	11.4	Listed Buildings	0	0	0	-	-
69	<u>11.5</u>	<u>Conservation Areas</u>	0	0	1	-	-
70	11.6	Scheduled Ancient Monuments	0	0	0	-	-
70	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
71	<u>12.1</u>	<u>Agricultural Land Classification</u>	Urban (within 250m)				
72	12.2	Open Access Land	0	0	0	-	-
72	12.3	Tree Felling Licences	0	0	0	-	-
72	12.4	Environmental Stewardship Schemes	0	0	0	-	-
72	<u>12.5</u>	<u>Countryside Stewardship Schemes</u>	1	1	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
74	<u>13.1</u>	<u>Priority Habitat Inventory</u>	1	1	8	-	-
75	13.2	Habitat Networks	0	0	0	-	-
75	13.3	Open Mosaic Habitat	0	0	0	-	-
75	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
76	<u>14.1</u>	<u>10k Availability</u>	Identified (within 500m)				
77	14.2	Artificial and made ground (10k)	0	0	0	0	-
78	14.3	Superficial geology (10k)	0	0	0	0	-



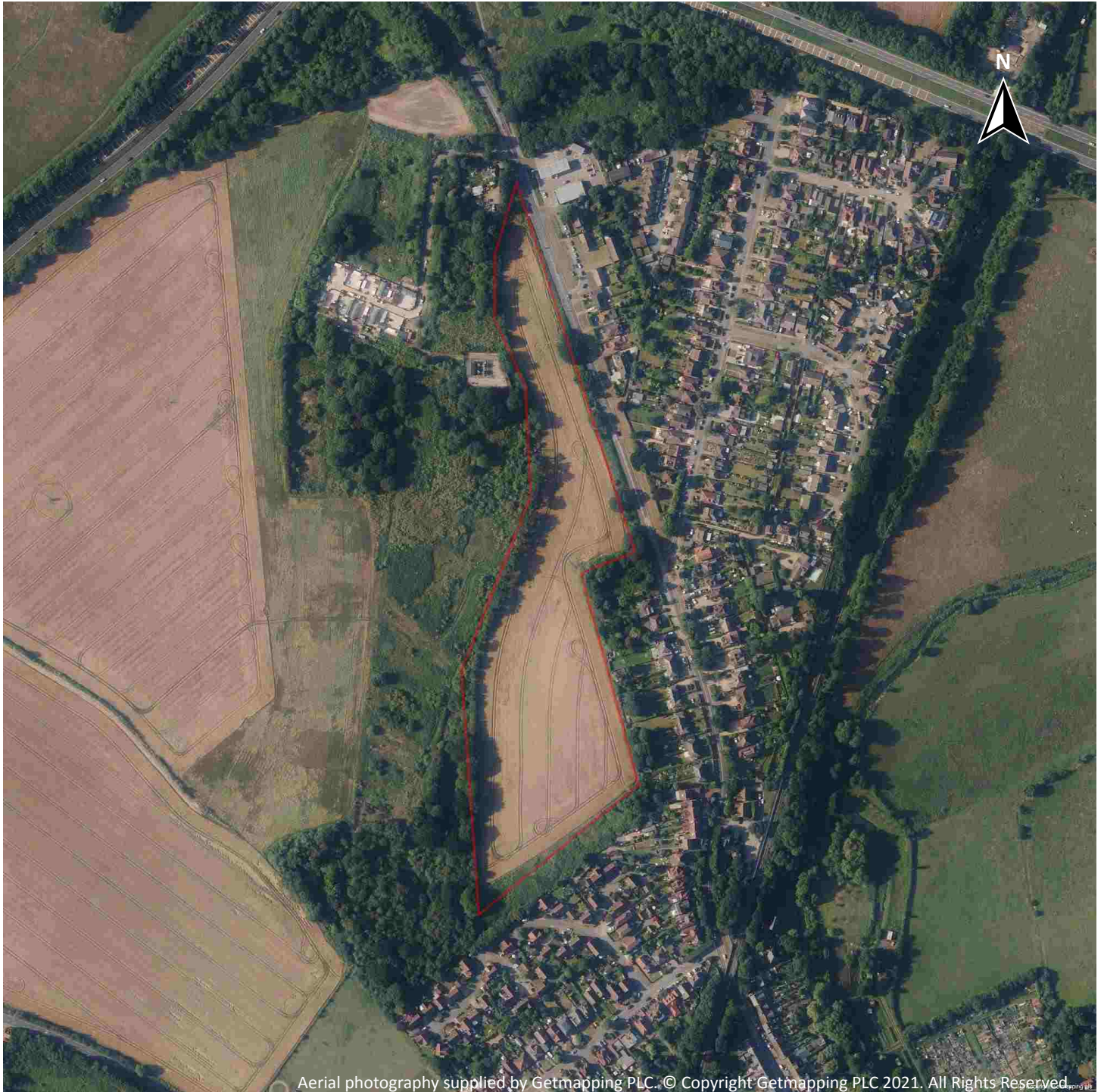
78	14.4	Landslip (10k)	0	0	0	0	-
79	14.5	Bedrock geology (10k)	0	0	0	0	-
79	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
80	15.1	<u>50k Availability</u>	Identified (within 500m)				
81	15.2	Artificial and made ground (50k)	0	0	0	0	-
81	15.3	Artificial ground permeability (50k)	0	0	-	-	-
82	15.4	<u>Superficial geology (50k)</u>	1	1	1	3	-
83	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
83	15.6	Landslip (50k)	0	0	0	0	-
83	15.7	Landslip permeability (50k)	None (within 50m)				
84	15.8	<u>Bedrock geology (50k)</u>	1	0	0	0	-
85	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
85	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
86	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
87	17.1	<u>Shrink swell clays</u>	Negligible (within 50m)				
88	17.2	<u>Running sands</u>	Very low (within 50m)				
90	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
91	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
92	17.5	<u>Landslides</u>	Very low (within 50m)				
94	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
96	18.1	<u>Natural cavities</u>	0	0	0	1	-
97	18.2	<u>BritPits</u>	0	0	0	1	-
97	18.3	<u>Surface ground workings</u>	7	2	21	-	-
98	18.4	Underground workings	0	0	0	0	0
99	18.5	Historical Mineral Planning Areas	0	0	0	0	-



99	18.6	<u>Non-coal mining</u>		1	0	1	4	1
100	18.7	Mining cavities		0	0	0	0	0
100	18.8	JPB mining areas		None (within 0m)				
100	18.9	Coal mining		None (within 0m)				
100	18.10	Brine areas		None (within 0m)				
101	18.11	Gypsum areas		None (within 0m)				
101	18.12	Tin mining		None (within 0m)				
101	18.13	Clay mining		None (within 0m)				
Page	Section	Radon						
102	19.1	<u>Radon</u>	Less than 1% (within 0m)					
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m	
103	20.1	<u>BGS Estimated Background Soil Chemistry</u>	5	4	-	-	-	
103	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-	
104	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	
105	21.1	Underground railways (London)	0	0	0	-	-	
105	21.2	Underground railways (Non-London)	0	0	0	-	-	
106	21.3	Railway tunnels	0	0	0	-	-	
106	21.4	<u>Historical railway and tunnel features</u>	0	0	13	-	-	
107	21.5	Royal Mail tunnels	0	0	0	-	-	
107	21.6	Historical railways	0	0	0	-	-	
107	21.7	<u>Railways</u>	0	0	5	-	-	
107	21.8	Crossrail 1	0	0	0	0	-	
108	21.9	Crossrail 2	0	0	0	0	-	
108	21.10	HS2	0	0	0	0	-	



Recent aerial photograph

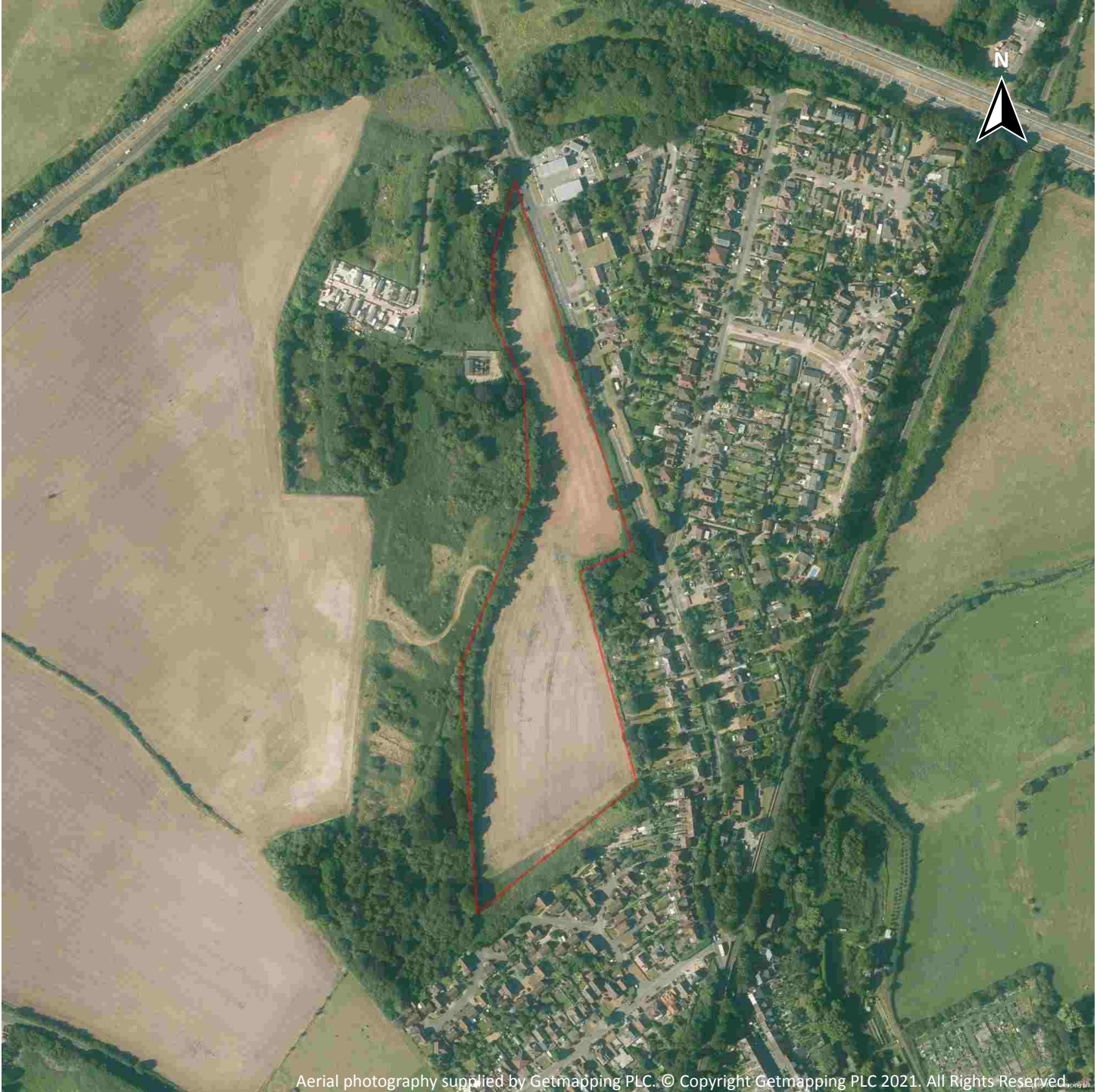


Capture Date: 29/06/2019

Site Area: 4.49ha



Recent site history - 2016 aerial photograph



Capture Date: 12/08/2016

Site Area: 4.49ha



Recent site history - 2006 aerial photograph



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Capture Date: 21/09/2006

Site Area: 4.49ha



Recent site history - 1999 aerial photograph



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Capture Date: 27/05/1999

Site Area: 4.49ha



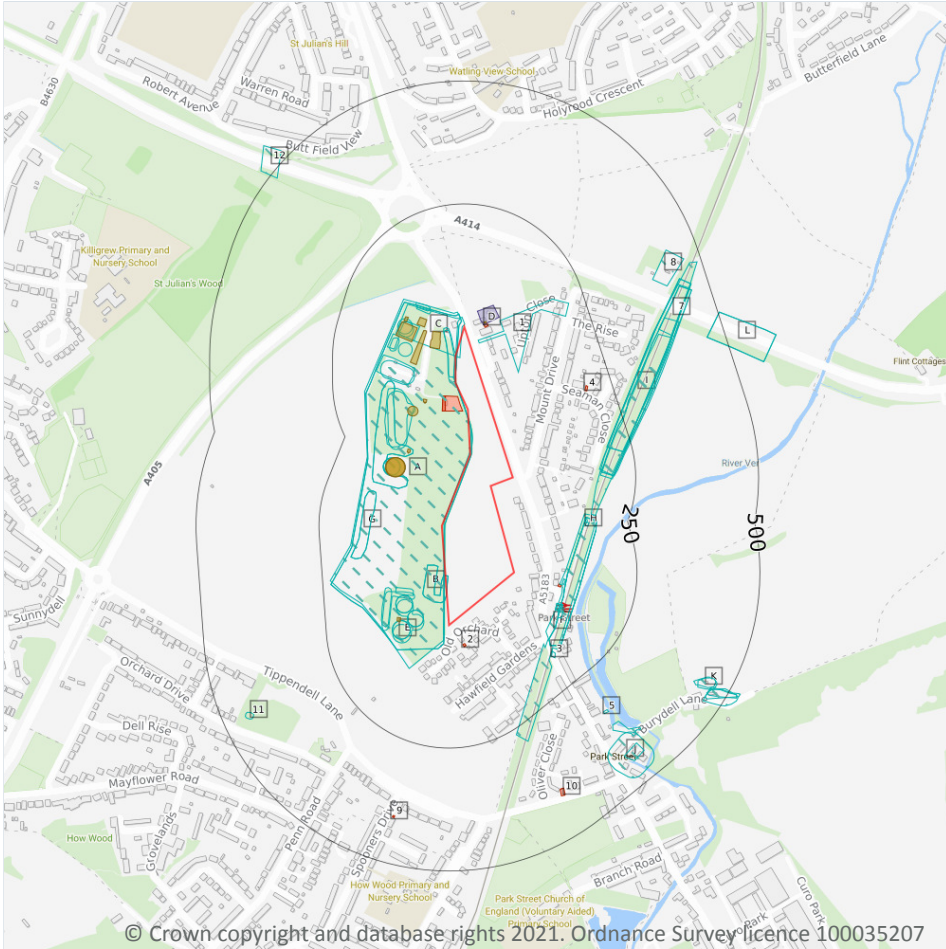
OS MasterMap site plan



Site Area: 4.49ha



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 **72**

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

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

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Works	1964	2046137



ID	Location	Land use	Dates present	Group ID
A	On site	Sewage Works	1922	2100516
A	On site	Sewage Works	1938	2108602
B	On site	Unspecified Heap	1989	2076033
B	On site	Unspecified Heap	1974	2089512
C	On site	Sewage Works	1897	2091605
C	On site	Unspecified Heap	1922 - 1938	2105580
C	2m W	Unspecified Heap	1964	2101590
1	18m E	Nursery	1938	2052581
E	51m W	Unspecified Tanks	1922 - 1938	2072900
E	51m W	Unspecified Tank	1989	2084045
E	51m W	Unspecified Tank	1964 - 1974	2094615
E	66m W	Unspecified Heap	1922 - 1938	2065572
E	67m W	Unspecified Heap	1964	2102330
E	71m W	Unspecified Tank	1989	2090594
E	71m W	Unspecified Tank	1964 - 1974	2105149
C	75m NW	Unspecified Ground Workings	1922	2059976
C	78m NW	Unspecified Heap	1964	2053800
E	79m W	Unspecified Tank	1989	2071857
E	79m W	Unspecified Tank	1964 - 1974	2121312
C	83m W	Unspecified Tanks	1964	2096046
C	83m W	Unspecified Tanks	1938	2107460
C	87m W	Filter Tanks	1897	2056562
C	89m W	Unspecified Tank	1938	2043810
F	96m E	Railway Sidings	1964	2119763
A	96m SW	Unspecified Tanks	1922 - 1938	2076601
A	97m W	Unspecified Heap	1989	2091550
A	97m W	Unspecified Heap	1974	2096662
C	97m W	Unspecified Tank	1938	2105281



ID	Location	Land use	Dates present	Group ID
A	97m SW	Unspecified Tanks	1964	2102972
F	100m E	Railway Building	1964	2051348
C	101m W	Unspecified Tank	1964	2074552
F	107m E	Railway Sidings	1922	2083260
F	107m E	Railway Sidings	1938	2106946
F	107m E	Railway Sidings	1897	2107824
F	107m SE	Railway Station	1989	2077563
F	107m SE	Railway Station	1974	2101325
E	112m W	Unspecified Heap	1964	2117457
F	113m SE	Railway Station	1964	2075414
F	117m SE	Railway Station	1897 - 1938	2118888
C	119m W	Unspecified Tanks	1938	2092482
C	122m W	Unspecified Tanks	1964	2120086
A	122m W	Unspecified Tank	1989	2100492
A	122m W	Unspecified Tank	1974	2105451
A	123m W	Unspecified Tank	1964	2121305
G	141m W	Unspecified Heap	1974	2071771
G	141m W	Unspecified Heap	1989	2100416
H	165m E	Railway Building	1922 - 1938	2085143
H	165m E	Railway Building	1964	2067040
I	170m E	Cuttings	1878	2068715
3	174m SE	Railway Building	1964	2051347
I	177m E	Cuttings	1964	2091013
I	178m E	Cuttings	1922	2108480
I	180m E	Cuttings	1897	2094767
I	180m E	Cuttings	1938	2110089
I	201m E	Cuttings	1974	2098074
I	201m E	Cuttings	1989	2102485



ID	Location	Land use	Dates present	Group ID
5	335m SE	Boat House	1872	2052236
6	367m SE	Smithy	1896	2059062
7	375m E	Cuttings	1922 - 1938	2067623
8	394m E	Gas Valve Compound	1989	2049366
J	395m SE	Unspecified Mill	1896	2056397
J	426m SE	Flour Mill	1872	2050515
K	427m SE	Unspecified Pit	1955	2117540
K	434m SE	Unspecified Pit	1922 - 1938	2121237
11	437m SW	Unspecified Pit	1872	2040181
K	462m SE	Unspecified Ground Workings	1989	2120014
K	463m SE	Unspecified Pit	1938	2113341
K	463m SE	Unspecified Ground Workings	1872	2075886
L	464m E	Cuttings	1971	2092876
L	464m E	Cuttings	1989	2119037
12	486m NW	Cuttings	1976	2061255

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

13

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

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

ID	Location	Land use	Dates present	Group ID
C	36m W	Septic Tanks	1924 - 1937	357467
D	41m E	Unspecified Tank	1970	342263
A	68m SW	Septic Tank	1924 - 1937	356503



ID	Location	Land use	Dates present	Group ID
C	71m W	Septic Tanks	1924 - 1937	354380
C	77m W	Septic Tank	1924 - 1937	358723
C	91m W	Filter Tanks	1898	349370
A	93m SW	Unspecified Tank	1937	342262
E	97m W	Septic Tank	1924 - 1937	351380
A	112m W	Unspecified Tank	1979	352449
A	112m W	Unspecified Tank	1963 - 1992	358189
A	112m W	Unspecified Tank	1966	349791
C	115m W	Septic Tanks	1924 - 1937	350348
A	115m W	Septic Tank	1924 - 1937	349541

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

9

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

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

ID	Location	Land use	Dates present	Group ID
A	8m SW	Electricity Transformer Station	1970	227305
A	30m SW	Electricity Substation	1992	224414
A	31m SW	Electricity Transformer Station	1979	227304
D	39m E	Electricity Substation	1970	224410
2	49m SE	Electricity Substation	1992	237330
F	93m E	Electricity Substation	1992	224411
4	194m E	Electricity Substation	1970	224412
9	403m S	Electricity Substation	1972 - 1991	235992



ID	Location	Land use	Dates present	Group ID
10	403m SE	Electricity Substation	1979 - 1994	229823

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0
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Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	1
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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 13**

ID	Location	Land use	Dates present	Group ID
D	36m E	Garage	1963 - 1970	71503

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

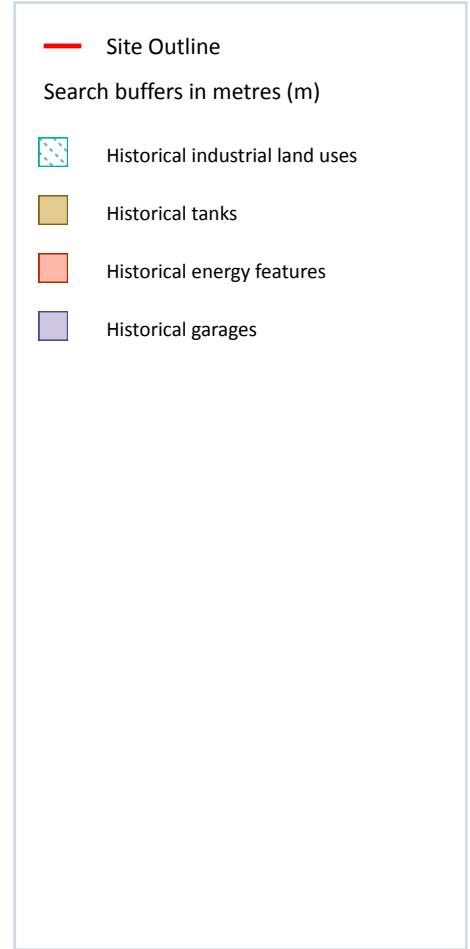
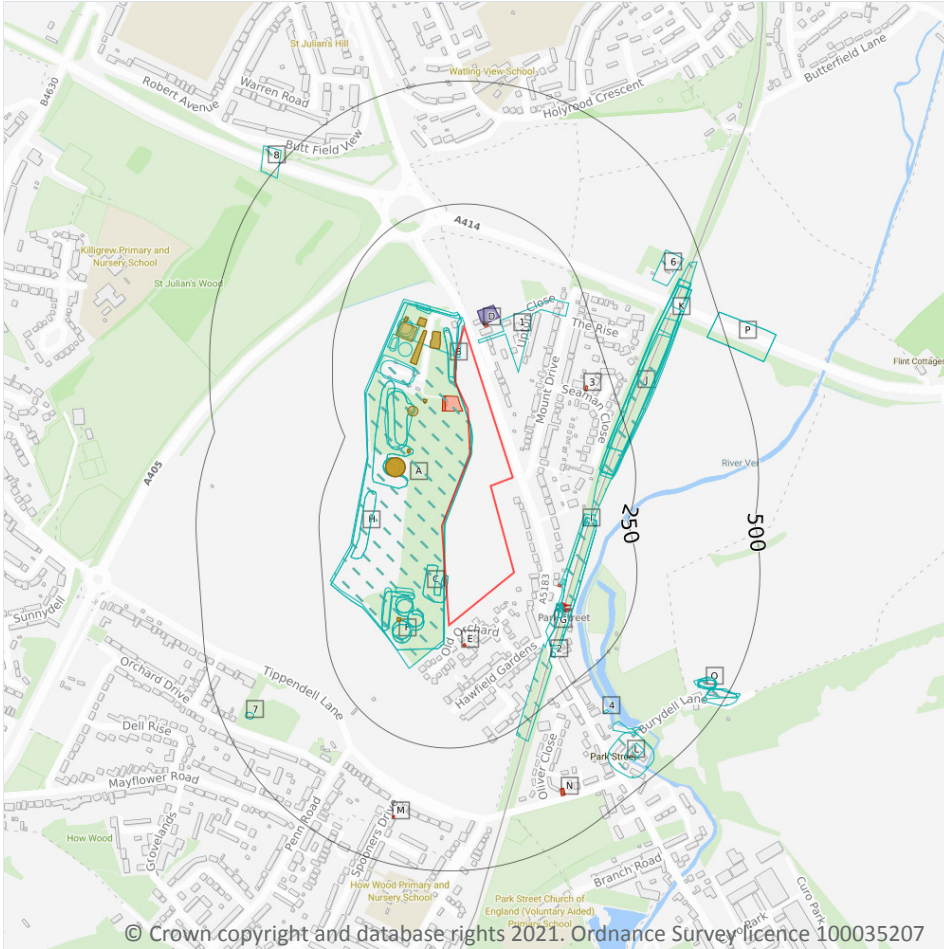
Records within 500m	0
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Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

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



2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m	86
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Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
A	On site	Sewage Works	1938	2108602
A	On site	Sewage Works	1922	2100516
A	On site	Unspecified Works	1964	2046137

ID	Location	Land Use	Date	Group ID
B	On site	Unspecified Heap	1938	2105580
B	On site	Unspecified Heap	1922	2105580
B	On site	Sewage Works	1897	2091605
C	On site	Unspecified Heap	1974	2089512
C	On site	Unspecified Heap	1989	2076033
B	2m W	Unspecified Heap	1964	2101590
1	18m E	Nursery	1938	2052581
F	51m W	Unspecified Tanks	1938	2072900
F	51m W	Unspecified Tanks	1922	2072900
F	51m W	Unspecified Tank	1964	2094615
F	51m W	Unspecified Tank	1974	2094615
F	51m W	Unspecified Tank	1989	2084045
F	66m W	Unspecified Heap	1938	2065572
F	66m W	Unspecified Heap	1922	2065572
F	67m W	Unspecified Heap	1964	2102330
F	71m W	Unspecified Tank	1964	2105149
F	71m W	Unspecified Tank	1974	2105149
F	71m W	Unspecified Tank	1989	2090594
B	75m NW	Unspecified Ground Workings	1922	2059976
B	78m NW	Unspecified Heap	1964	2053800
F	79m W	Unspecified Tank	1964	2121312
F	79m W	Unspecified Tank	1974	2121312
F	79m W	Unspecified Tank	1989	2071857
B	83m W	Unspecified Tanks	1964	2096046
B	83m W	Unspecified Tanks	1938	2107460
B	87m W	Filter Tanks	1897	2056562
B	89m W	Unspecified Tank	1938	2043810
G	96m E	Railway Sidings	1964	2119763



ID	Location	Land Use	Date	Group ID
A	96m SW	Unspecified Tanks	1938	2076601
A	96m SW	Unspecified Tanks	1922	2076601
A	97m W	Unspecified Heap	1974	2096662
A	97m W	Unspecified Heap	1989	2091550
B	97m W	Unspecified Tank	1938	2105281
A	97m SW	Unspecified Tanks	1964	2102972
G	100m E	Railway Building	1964	2051348
B	101m W	Unspecified Tank	1964	2074552
G	107m E	Railway Sidings	1938	2106946
G	107m E	Railway Sidings	1922	2083260
G	107m E	Railway Sidings	1897	2107824
G	107m SE	Railway Station	1974	2101325
G	107m SE	Railway Station	1989	2077563
F	112m W	Unspecified Heap	1964	2117457
G	113m SE	Railway Station	1964	2075414
G	117m SE	Railway Station	1938	2118888
G	117m SE	Railway Station	1922	2118888
G	117m SE	Railway Station	1897	2118888
B	119m W	Unspecified Tanks	1938	2092482
B	122m W	Unspecified Tanks	1964	2120086
A	122m W	Unspecified Tank	1974	2105451
A	122m W	Unspecified Tank	1989	2100492
A	123m W	Unspecified Tank	1964	2121305
H	141m W	Unspecified Heap	1974	2071771
H	141m W	Unspecified Heap	1989	2100416
I	165m E	Railway Building	1938	2085143
I	165m E	Railway Building	1922	2085143
I	165m E	Railway Building	1964	2067040



ID	Location	Land Use	Date	Group ID
J	170m E	Cuttings	1878	2068715
2	174m SE	Railway Building	1964	2051347
J	177m E	Cuttings	1964	2091013
J	178m E	Cuttings	1922	2108480
J	180m E	Cuttings	1938	2110089
J	180m E	Cuttings	1897	2094767
J	201m E	Cuttings	1974	2098074
J	201m E	Cuttings	1989	2102485
4	335m SE	Boat House	1872	2052236
5	367m SE	Smithy	1896	2059062
K	375m E	Cuttings	1922	2067623
6	394m E	Gas Valve Compound	1989	2049366
L	395m SE	Unspecified Mill	1896	2056397
K	413m E	Cuttings	1938	2067623
L	426m SE	Flour Mill	1872	2050515
O	427m SE	Unspecified Pit	1955	2117540
O	434m SE	Unspecified Pit	1938	2121237
O	436m SE	Unspecified Pit	1922	2121237
O	437m SE	Unspecified Pit	1938	2121237
O	437m SE	Unspecified Pit	1938	2121237
7	437m SW	Unspecified Pit	1872	2040181
O	462m SE	Unspecified Ground Workings	1989	2120014
O	463m SE	Unspecified Pit	1938	2113341
O	463m SE	Unspecified Ground Workings	1872	2075886
P	464m E	Cuttings	1989	2119037
P	464m E	Cuttings	1971	2092876
8	486m NW	Cuttings	1976	2061255

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

21

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 19**

ID	Location	Land Use	Date	Group ID
B	36m W	Septic Tanks	1924	357467
B	36m W	Septic Tanks	1937	357467
D	41m E	Unspecified Tank	1970	342263
A	68m SW	Septic Tank	1924	356503
A	68m SW	Septic Tank	1937	356503
B	71m W	Septic Tanks	1924	354380
B	71m W	Septic Tanks	1937	354380
B	77m W	Septic Tank	1924	358723
B	77m W	Septic Tank	1937	358723
B	91m W	Filter Tanks	1898	349370
A	93m SW	Unspecified Tank	1937	342262
F	97m W	Septic Tank	1924	351380
F	97m W	Septic Tank	1937	351380
A	112m W	Unspecified Tank	1979	352449
A	112m W	Unspecified Tank	1992	358189
A	112m W	Unspecified Tank	1966	349791
A	113m W	Unspecified Tank	1963	358189
B	115m W	Septic Tanks	1924	350348
B	115m W	Septic Tanks	1937	350348
A	115m W	Septic Tank	1924	349541
A	115m W	Septic Tank	1937	349541

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

12

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. 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 19**

ID	Location	Land Use	Date	Group ID
A	8m SW	Electricity Transformer Station	1970	227305
A	30m SW	Electricity Substation	1992	224414
A	31m SW	Electricity Transformer Station	1979	227304
D	39m E	Electricity Substation	1970	224410
E	49m SE	Electricity Substation	1992	237330
E	50m SE	Electricity Substation	1992	237330
G	93m E	Electricity Substation	1992	224411
3	194m E	Electricity Substation	1970	224412
M	403m S	Electricity Substation	1972	235992
N	403m SE	Electricity Substation	1979	229823
N	404m SE	Electricity Substation	1994	229823
M	404m S	Electricity Substation	1991	235992

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

3

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'.

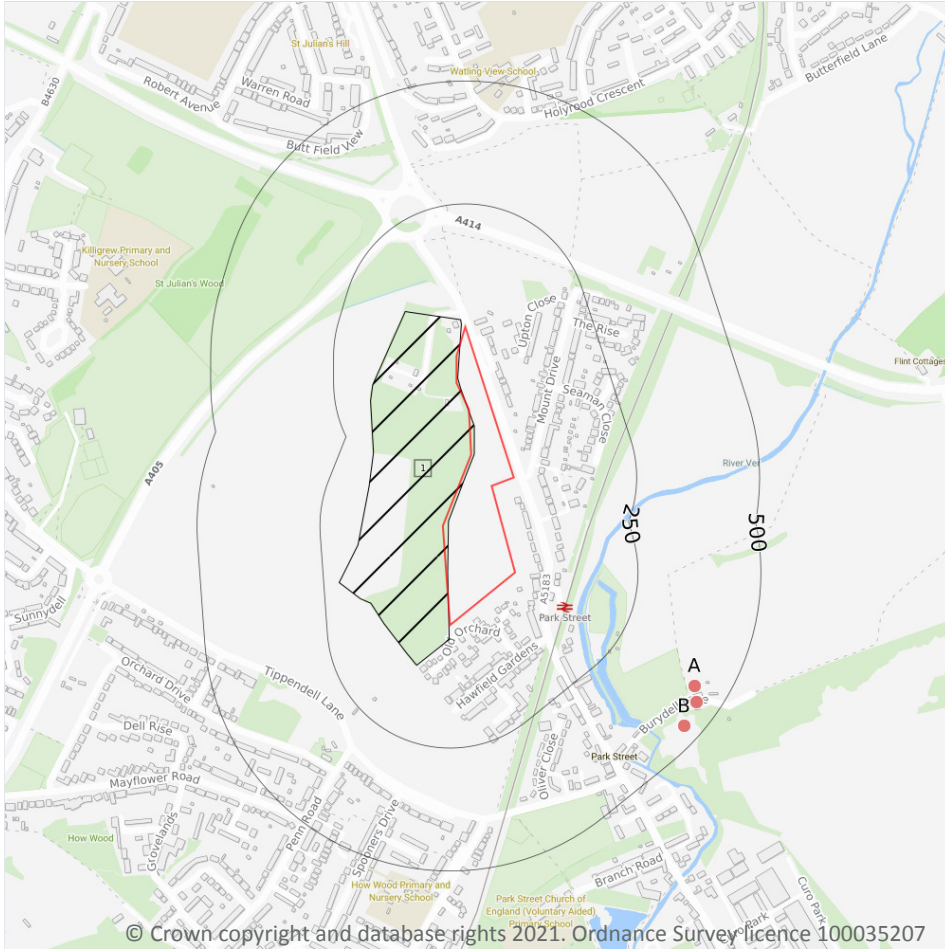
Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
D	36m E	Garage	1963	71503
D	36m E	Garage	1970	71503
D	36m E	Garage	1966	71503

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0
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Landfill sites identified from Local Authority records and high detail historical mapping.

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	1
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Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 26**

ID	Location	Details		
1	On site	Site Address: Park Street Sewage Works, Watling Street, St Albans, Hertfordshire Licence Holder Address: -	Waste Licence: - Site Reference: 3241, Ex/0015, EXEMPT 3241 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: St Albans County Council First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	0
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Waste site records derived from Local Authority planning records and high detail historical mapping.

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

3.6 Licensed waste sites

Records within 500m	0
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

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

3.7 Waste exemptions

Records within 500m

43

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

Features are displayed on the Waste and landfill map on **page 26**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	431m SE	Day Bros Burydell Lane AL2 2PQ	EPR/QE5452W V/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
A	431m SE	Day Bros Burydell Lane AL2 2PQ	EPR/QE5452W V/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Aerobic composting and associated prior treatment
A	431m SE	Day Bros Burydell Lane AL2 2PQ	EPR/QE5452W V/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	431m SE	Day Bros Burydell Lane AL2 2PQ	EPR/QE5452W V/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163491	Using waste exemption	Not on a Farm	Use of waste in construction
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163491	Using waste exemption	Not on a Farm	Spreading waste on non-agricultural land to confer benefit
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163491	Using waste exemption	Not on a Farm	Spreading of plant matter to confer benefit
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163491	Treating waste exemption	Not on a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising



ID	Location	Site	Reference	Category	Sub-Category	Description
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163491	Treating waste exemption	Not on a Farm	Aerobic composting and associated prior treatment
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163491	Using waste exemption	Not on a Farm	Incorporation of ash into soil
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163491	Disposing of waste exemption	Not on a Farm	Burning waste in the open
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163491	Using waste exemption	Not on a Farm	Use of mulch
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163493	Using waste exemption	Not on a Farm	Incorporation of ash into soil
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163493	Using waste exemption	Not on a Farm	Use of mulch
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163493	Disposing of waste exemption	Not on a Farm	Burning waste in the open
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163493	Using waste exemption	Not on a Farm	Spreading of plant matter to confer benefit
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163493	Using waste exemption	Not on a Farm	Use of waste in construction
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163493	Treating waste exemption	Not on a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163493	Using waste exemption	Not on a Farm	Spreading waste on non- agricultural land to confer benefit
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX163493	Treating waste exemption	Not on a Farm	Aerobic composting and associated prior treatment
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003302	Disposing of waste exemption	Not on a farm	Burning waste in the open



ID	Location	Site	Reference	Category	Sub-Category	Description
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003305	Disposing of waste exemption	Not on a farm	Burning waste in the open
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003302	Treating waste exemption	Not on a farm	Aerobic composting and associated prior treatment
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003305	Treating waste exemption	Not on a farm	Aerobic composting and associated prior treatment
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003302	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003305	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003302	Using waste exemption	Not on a farm	Use of waste in construction
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003305	Using waste exemption	Not on a farm	Use of waste in construction
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003302	Using waste exemption	Not on a farm	Spreading waste on non- agricultural land to confer benefit
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003305	Using waste exemption	Not on a farm	Spreading waste on non- agricultural land to confer benefit
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003302	Using waste exemption	Not on a farm	Use of mulch
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003305	Using waste exemption	Not on a farm	Use of mulch
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003302	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003305	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit

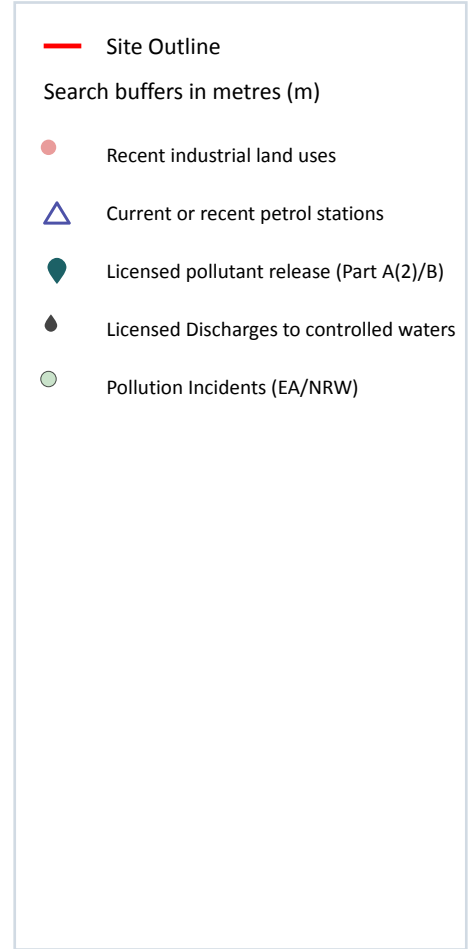


ID	Location	Site	Reference	Category	Sub-Category	Description
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003302	Using waste exemption	Not on a farm	Incorporation of ash into soil
A	454m SE	Old Watercress Beds, Burydell Lane, Park Street, AL2 2PQ	WEX003305	Using waste exemption	Not on a farm	Incorporation of ash into soil
B	465m SE	Burydell Lane Hertfordshire AL2 2PQ	EPR/UE5652W P/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
B	465m SE	Burydell Lane Hertfordshire AL2 2PQ	EPR/UE5652W P/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Aerobic composting and associated prior treatment
B	465m SE	Burydell Lane Hertfordshire AL2 2PQ	EPR/UE5652W P/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	465m SE	Burydell Lane Hertfordshire AL2 2PQ	EPR/UE5652W P/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
B	465m SE	Burydell Lane Hertfordshire AL2 2PQ	EPR/UE5652W P/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of mulch
B	465m SE	Burydell Lane Hertfordshire AL2 2PQ	EPR/UE5652W P/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit
B	465m SE	Burydell Lane Hertfordshire AL2 2PQ	EPR/UE5652W P/A001	Using waste exemption	Both agricultural and non-agricultural waste	Incorporation of ash into soil

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



4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m

10

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 32**

ID	Location	Company	Address	Activity	Category
1	29m SW	Electricity Sub Station	Hertfordshire, AL2	Electrical Features	Infrastructure and Facilities
A	40m E	BP Service Station	113, Watling Street, Park Street, St. Albans, Hertfordshire, AL2 2NN	Petrol and Fuel Stations	Road and Rail
A	40m E	B P Car Wash	113 Watling Street, Park Street, St. Albans, Hertfordshire, AL2 2NN	Vehicle Cleaning Services	Personal, Consumer and Other Services



ID	Location	Company	Address	Activity	Category
A	58m NE	Mount Sf Connect	113, Watling Street, St. Albans, Hertfordshire, AL2 2NN	Vehicle Cleaning Services	Personal, Consumer and Other Services
B	78m SE	Electricity Sub Station	Hertfordshire, AL2	Electrical Features	Infrastructure and Facilities
A	80m NE	Electricity Sub Station	Hertfordshire, AL2	Electrical Features	Infrastructure and Facilities
B	109m E	Park Street Rail Station	Hertfordshire, AL2	Railway Stations, Junctions and Halts	Public Transport, Stations and Infrastructure
2	198m E	Electricity Sub Station	Hertfordshire, AL2	Electrical Features	Infrastructure and Facilities
3	220m SE	Watercress Bed	Hertfordshire, AL2	Fruit, Flower and Vegetable Growers	Farming
4	231m SE	Help to Breathe UK	6, Magnolia Close, Park Street, St. Albans, Hertfordshire, AL2 2PP	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products

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 32**

ID	Location	Company	Address	LPG	Status
A	53m NE	BP	113, Watling Street, St Albans, Hertfordshire, AL2 2NN	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
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

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

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

3

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

Features are displayed on the Current industrial land use map on **page 32**

ID	Location	Address	Details	
A	38m E	Mount Service Station, 113 Watling Street, St Albans, Hertfordshire, AL2 2NN	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
F	486m SE	Park Street Test Centre, Park Street Lane, Park Street, AL2 2NE	Process: Waste Oil Burner 0.4 MW Status: Under New Legislation Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
F	495m SE	Robson Coachworks, Park St, Ashley Road, St. Albans, Herts, AL1 5UG	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m
0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

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

4.13 Licensed Discharges to controlled waters

Records within 500m
3

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

Features are displayed on the Current industrial land use map on **page 32**

ID	Location	Address	Details	
5	348m SE	CORVILL MILL, PARK LANE / BURY DELL, CORVILL MILL PARK LANE / BURY D, ELL LANE ST. ALBANS HERTS	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.0454 Permit Version: 1 Receiving Water: RIVER VER	Status: REVOKED - UNSPECIFIED Issue date: 21/10/1985 Effective Date: 21/10/1985 Revocation Date: 10/03/1986
D	407m SE	DEVELOPMENT AT BURY DELL MILL, BURY, DEVELOPMENT AT BURY DELL MILL B, URY DELL LN. PARK STREET ST AL, BANS, HERT	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.2794 Permit Version: 1 Receiving Water: TRIBUTARY OF THE RIVER VER	Status: REVOKED - UNSPECIFIED Issue date: 14/09/1988 Effective Date: 14/09/1988 Revocation Date: 24/10/1996
6	499m SE	CORVILL MILL, PARK LANE / BURY DELL, CORVILL MILL PARK LANE / BURY D, ELL LANE ST. ALBANS HERTS	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.0673 Permit Version: 1 Receiving Water: RIVER VER MILL RACE	Status: REVOKED - UNSPECIFIED Issue date: 10/03/1986 Effective Date: 10/03/1986 Revocation Date: 24/10/1996

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m
0

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

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



4.15 Pollutant release to public sewer

Records within 500m **0**

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m **0**

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

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

4.17 List 2 Dangerous Substances

Records within 500m **0**

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m **6**

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 32**

ID	Location	Details	
C	320m SW	Incident Date: 13/08/2001 Incident Identification: 23698 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	320m SW	Incident Date: 13/08/2001 Incident Identification: 23698 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
D	428m SE	Incident Date: 28/01/2003 Incident Identification: 133814 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	432m SE	Incident Date: 12/12/2002 Incident Identification: 125765 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	436m SE	Incident Date: 13/06/2002 Incident Identification: 84739 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	436m SE	Incident Date: 06/06/2002 Incident Identification: 83162 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m

0

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

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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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



4.21 Pollution inventory radioactive waste

Records within 500m

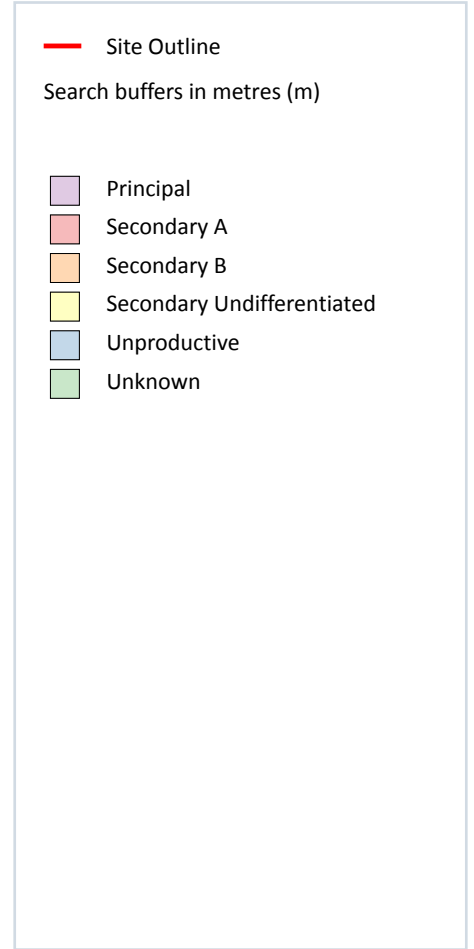
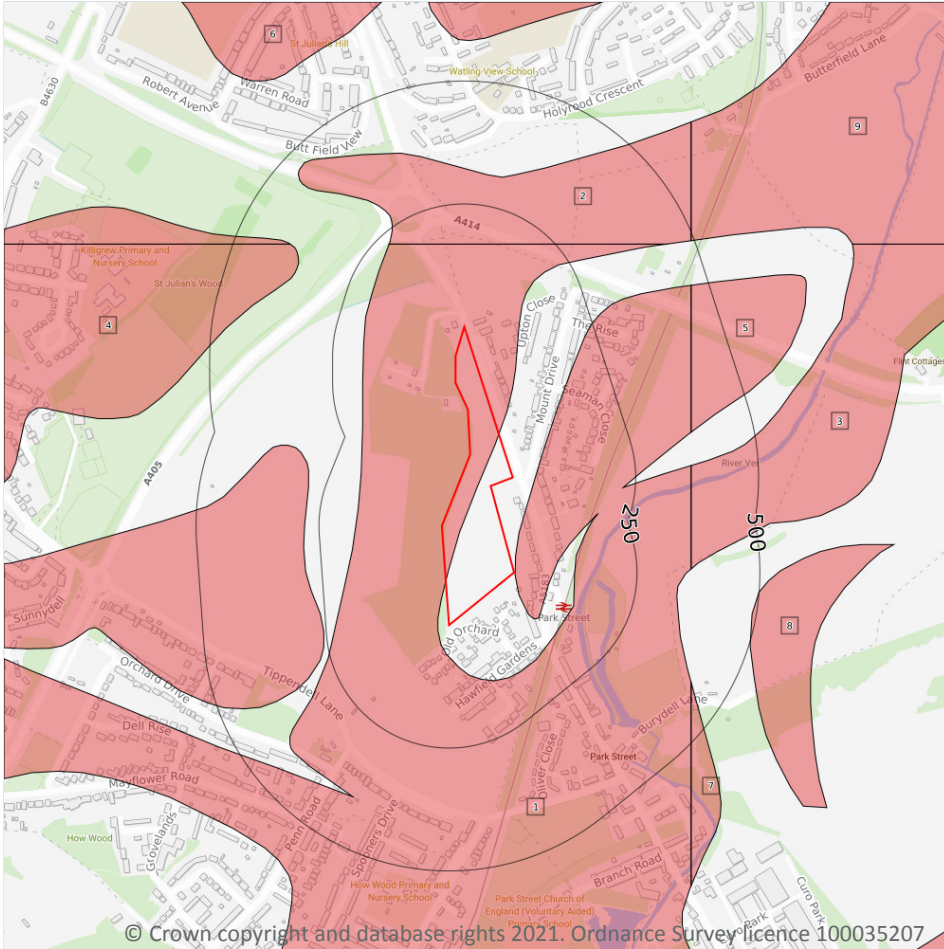
0

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

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



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

9

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 40**

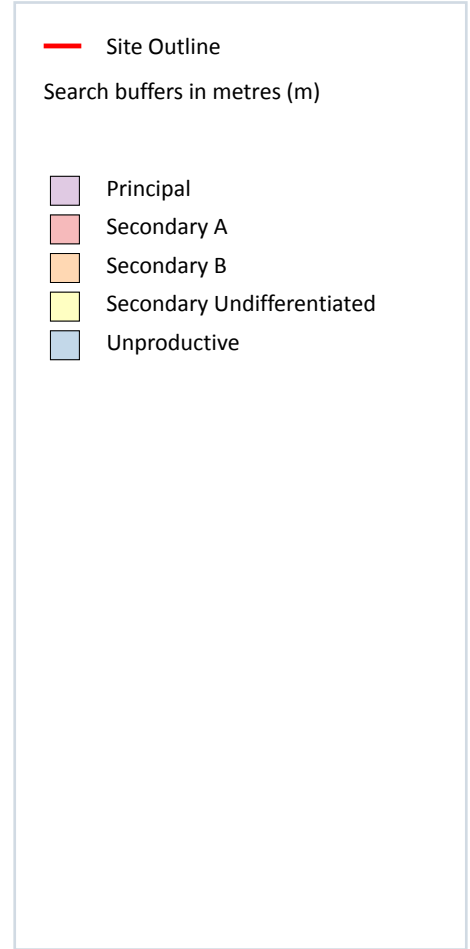
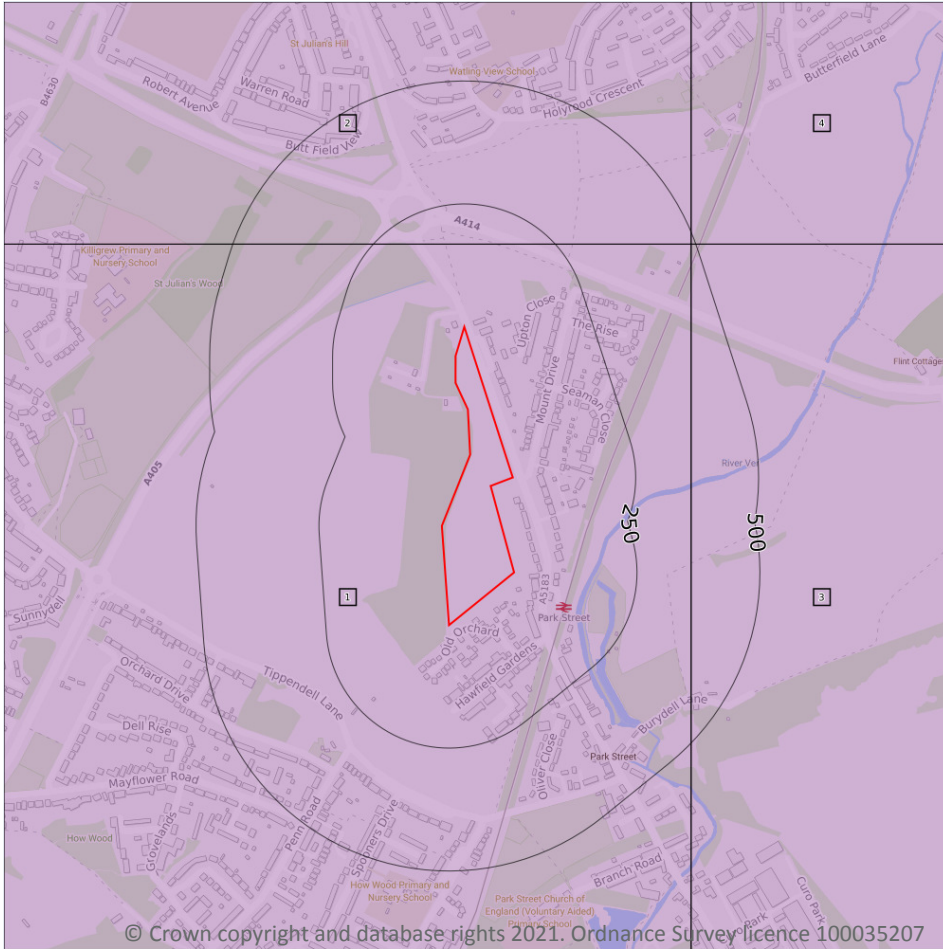
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	168m N	Secondary 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	360m 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
4	360m 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
5	374m 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
6	392m NW	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
7	424m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
8	491m 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
9	493m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

4

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 42**

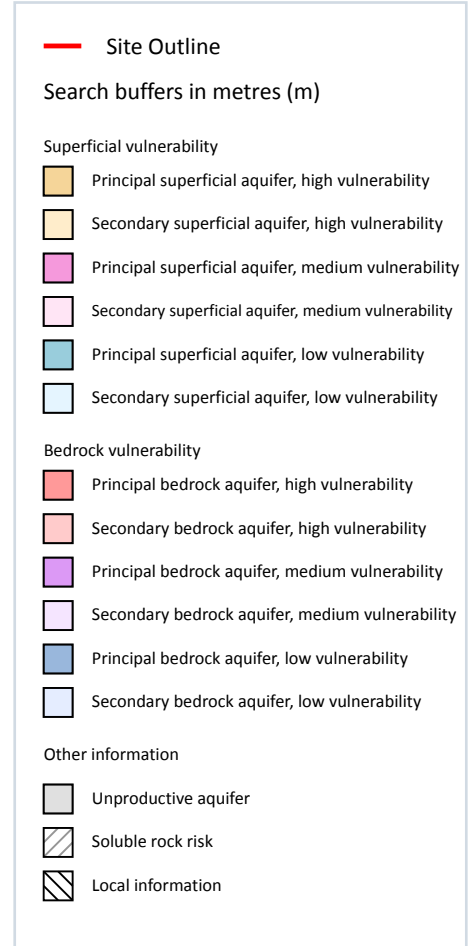
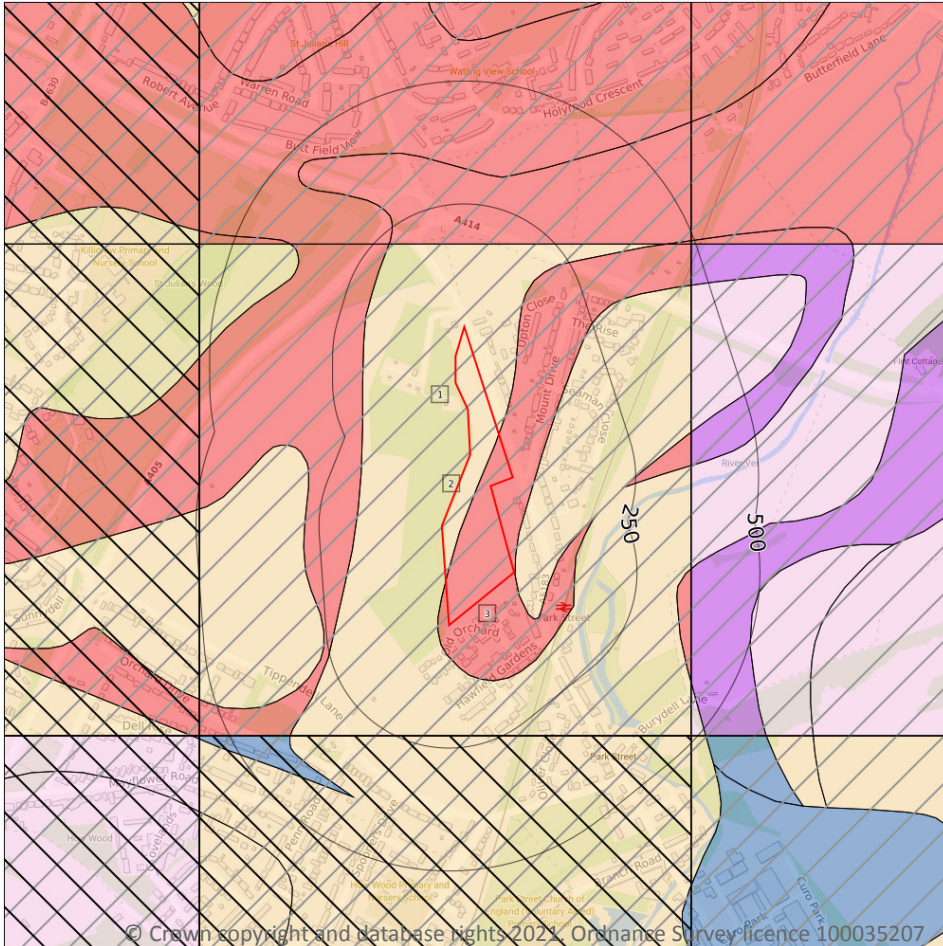
ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	168m N	Principal	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

ID	Location	Designation	Description
3	360m E	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
4	491m E	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

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

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

Features are displayed on the Groundwater vulnerability map on **page 44**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
3	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Low	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	Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.	9.0%

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

5.5 Groundwater vulnerability- local information

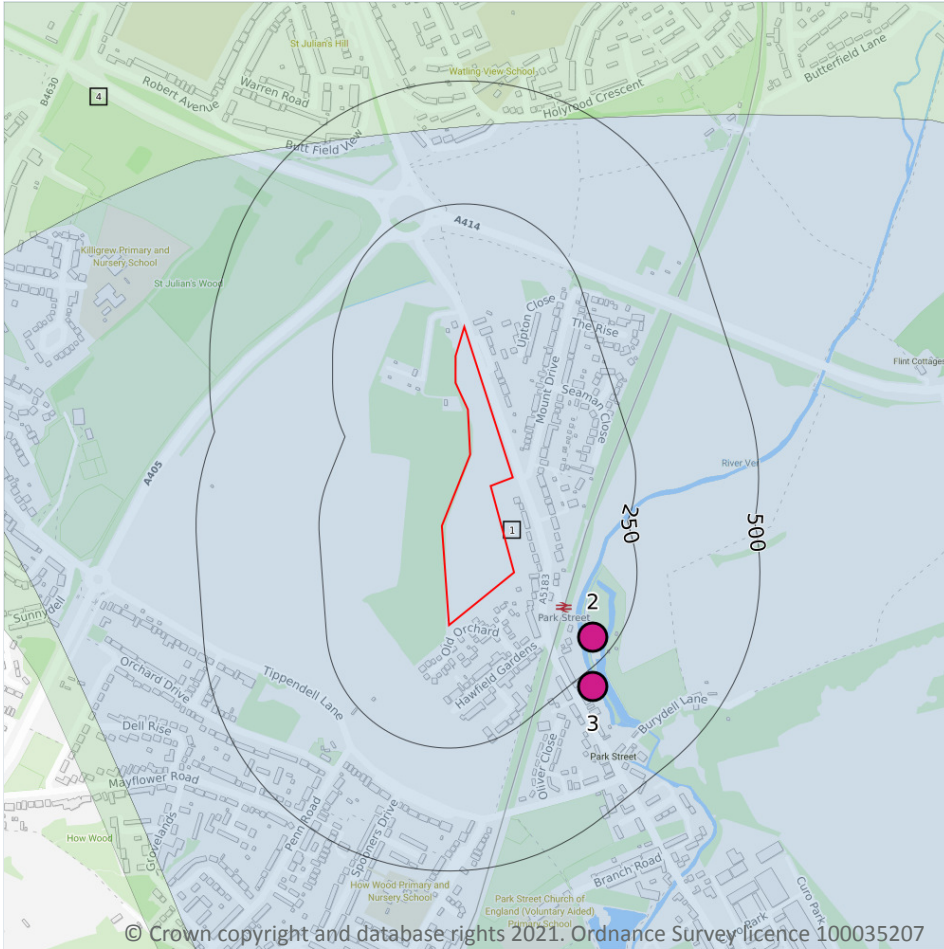
Records on site	0
------------------------	----------

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

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



Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

8

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 46**

ID	Location	Details	
2	207m SE	Status: Active Licence No: 28/39/28/0186 Details: Fish Farm/Cress Pond Throughflow Direct Source: THAMES GROUNDWATER Point: ARTESIAN BOREHOLES AT BURYDELL LANE, PARK STREET - B Data Type: Point Name: PARKER Easting: 514800 Northing: 204200	Annual Volume (m ³): 454,600 Max Daily Volume (m ³): 1,245 Original Application No: - Original Start Date: 10/10/1966 Expiry Date: - Issue No: 101 Version Start Date: 07/04/2008 Version End Date: -
3	281m SE	Status: Active Licence No: 28/39/28/0186 Details: Fish Farm/Cress Pond Throughflow Direct Source: THAMES GROUNDWATER Point: ARTESIAN BOREHOLES AT BURYDELL LANE, PARK STREET - A Data Type: Point Name: PARKER Easting: 514800 Northing: 204100	Annual Volume (m ³): 454,600 Max Daily Volume (m ³): 1,245 Original Application No: - Original Start Date: 10/10/1966 Expiry Date: - Issue No: 101 Version Start Date: 07/04/2008 Version End Date: -
-	1052m SE	Status: Historical Licence No: 28/39/28/0512 Details: Make-Up or Top Up Water Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT RADLETT PIT, PARK STREET, HERTS. Data Type: Point Name: LAFARGE REDLAND READYMIX LIMITED Easting: 515600 Northing: 203900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/11/1992 Expiry Date: 31/12/2002 Issue No: 100 Version Start Date: 01/06/1998 Version End Date: -
-	1065m E	Status: Historical Licence No: 28/39/28/0418 Details: General Farming & Domestic Direct Source: THAMES GROUNDWATER Point: BOREHOLE AT HEDGES FARM, NORTH ORBITAL ROAD, ST. ALBANS Data Type: Point Name: WOOLLATT Easting: 515700 Northing: 204600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/04/1975 Expiry Date: - Issue No: 100 Version Start Date: 18/04/1975 Version End Date: -



ID	Location	Details	
-	1769m N	Status: Active Licence No: 28/39/28/0337 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: HOLYWELL PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 514600 Northing: 206600	Annual Volume (m ³): 8,319,354 Max Daily Volume (m ³): 30,686.14 Original Application No: - Original Start Date: 12/06/1967 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -
-	1800m N	Status: Active Licence No: 28/39/28/0337 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MUD LANE PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 514200 Northing: 206600	Annual Volume (m ³): 8,319,354 Max Daily Volume (m ³): 30,686.14 Original Application No: - Original Start Date: 12/06/1967 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -
-	1915m W	Status: Historical Licence No: 28/39/28/0596 Details: Horticultural Watering Direct Source: THAMES GROUNDWATER Point: THE GARDENS OF THE ROSE, ST ALBANS-BOREHOLE Data Type: Point Name: THE ROYAL NATIONAL ROSE SOCIETY Easting: 512580 Northing: 204340	Annual Volume (m ³): 12500 Max Daily Volume (m ³): 360 Original Application No: - Original Start Date: 01/07/2005 Expiry Date: 31/03/2014 Issue No: 1 Version Start Date: 01/07/2005 Version End Date: -
-	1915m W	Status: Historical Licence No: TH/039/0028/033 Details: Spray Irrigation - Direct Direct Source: THAMES GROUNDWATER Point: THE GARDENS OF THE ROSE, ST ALBANS-BOREHOLE Data Type: Point Name: THE ROYAL NATIONAL ROSE SOCIETY Easting: 512580 Northing: 204340	Annual Volume (m ³): 6250 Max Daily Volume (m ³): 360 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2026 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -

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



5.7 Surface water abstractions

Records within 2000m
0

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

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

5.8 Potable abstractions

Records within 2000m
2

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 46**

ID	Location	Details	
-	1769m N	Status: Active Licence No: 28/39/28/0337 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: HOLYWELL PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 514600 Northing: 206600	Annual Volume (m ³): 8,319,354 Max Daily Volume (m ³): 30,686.14 Original Application No: - Original Start Date: 12/06/1967 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -
-	1800m N	Status: Active Licence No: 28/39/28/0337 Details: Potable Water Supply - Direct Direct Source: THAMES GROUNDWATER Point: MUD LANE PUMPING STATION Data Type: Point Name: Affinity Water Limited Easting: 514200 Northing: 206600	Annual Volume (m ³): 8,319,354 Max Daily Volume (m ³): 30,686.14 Original Application No: - Original Start Date: 12/06/1967 Expiry Date: - Issue No: 102 Version Start Date: 14/11/2012 Version End Date: -

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



5.9 Source Protection Zones

Records within 500m

2

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on **page 46**

ID	Location	Type	Description
1	On site	2	Outer catchment
4	406m N	3	Total catchment

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

5.10 Source Protection Zones (confined aquifer)

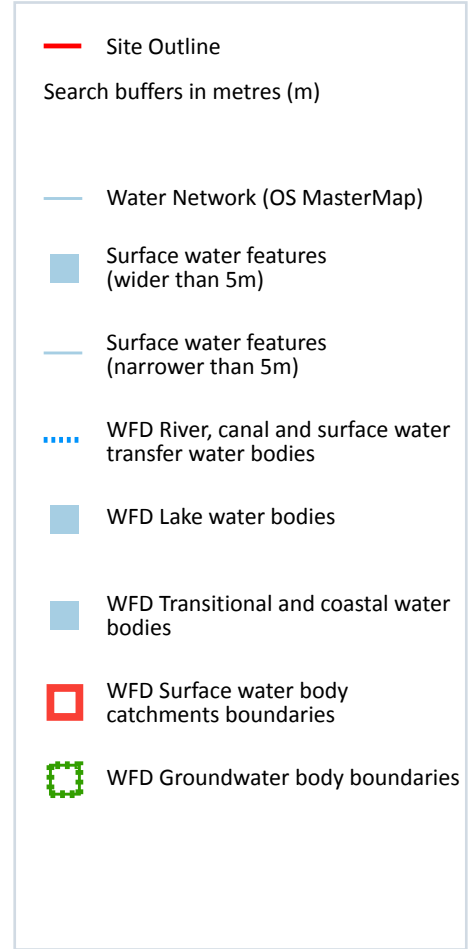
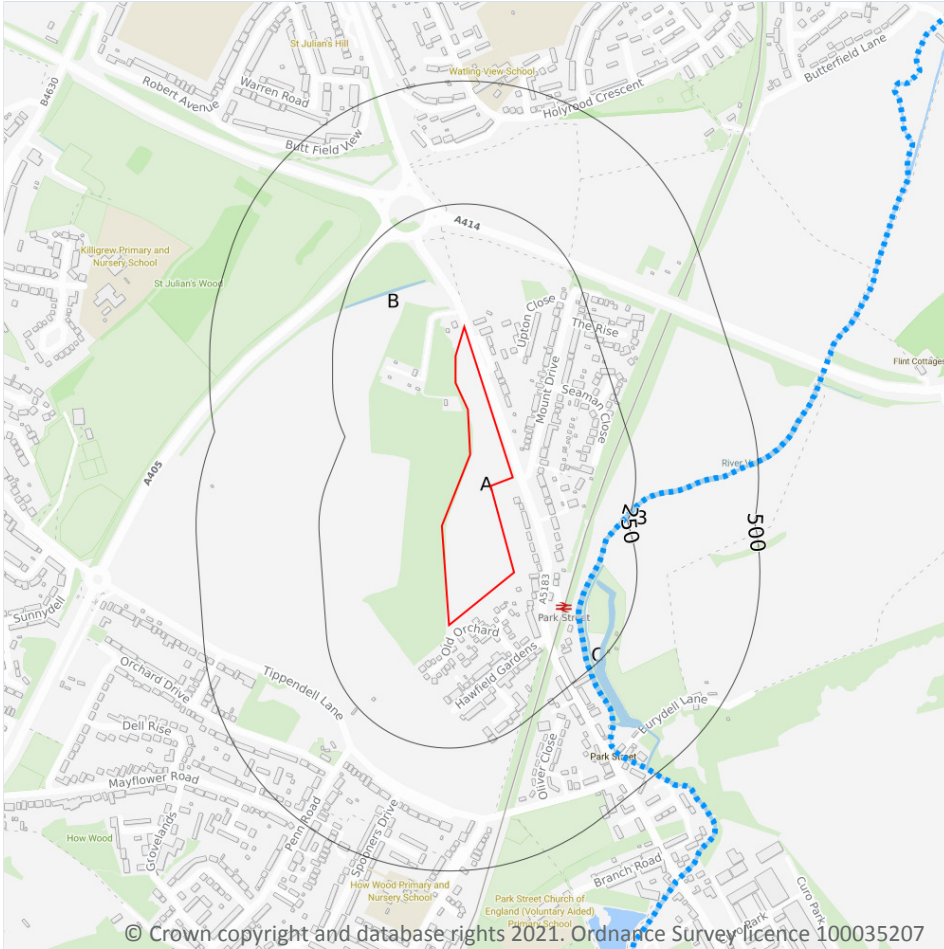
Records within 500m

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



6.1 Water Network (OS MasterMap)

Records within 250m

4

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

Features are displayed on the Hydrology map on **page 51**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	123m NW	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
3	148m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ver
C	158m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	168m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

2

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

Features are displayed on the Hydrology map on **page 51**

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 51**

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

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



6.4 WFD Surface water bodies

Records identified
1

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

Features are displayed on the Hydrology map on **page 51**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
2	148m E	River	Ver	GB106039029920	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

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.

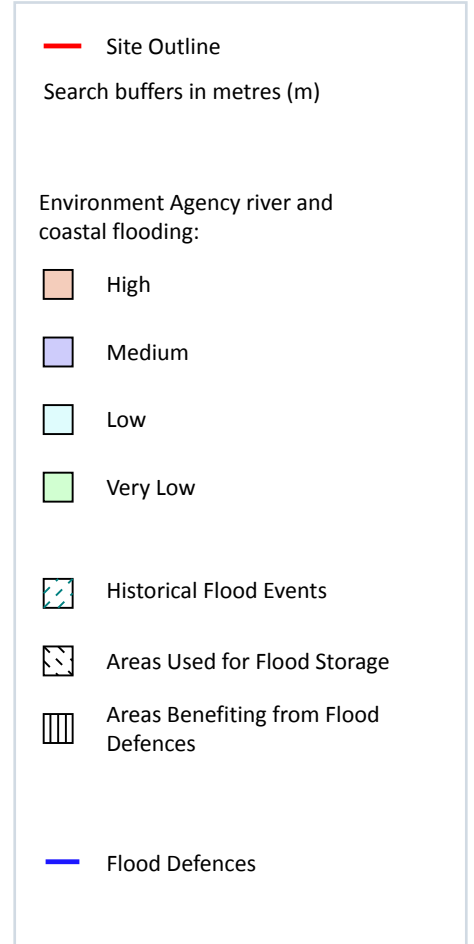
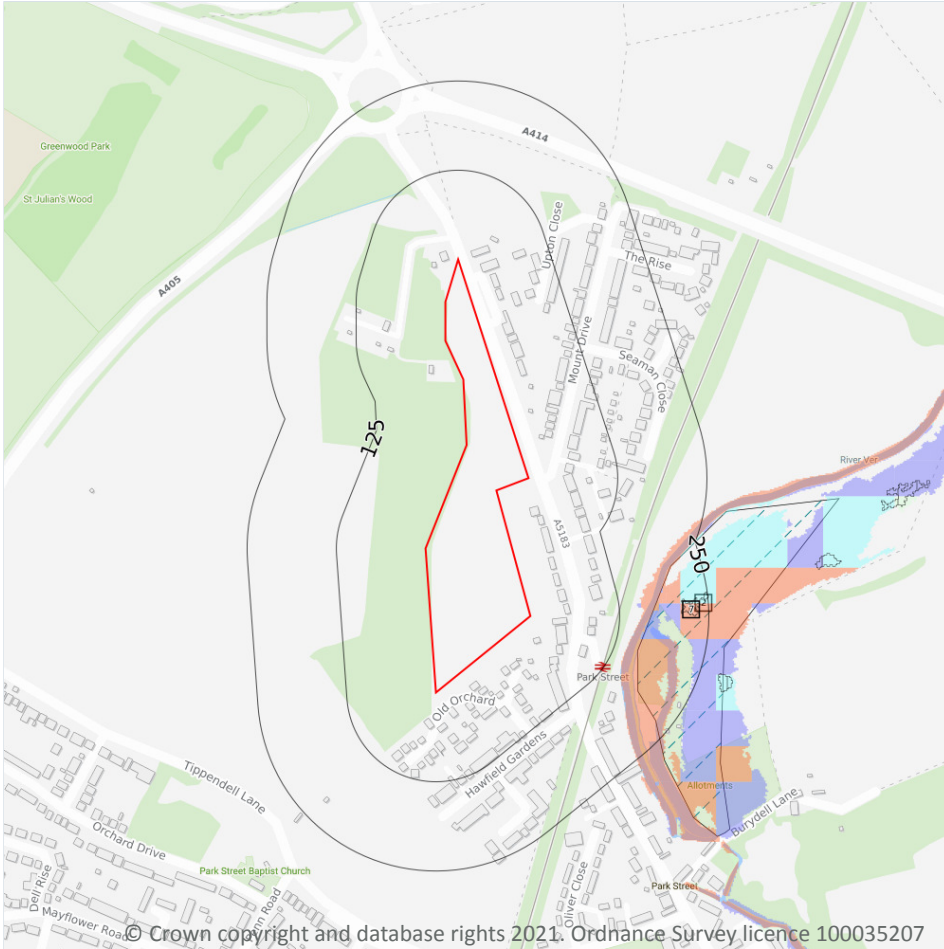
Features are displayed on the Hydrology map on **page 51**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Mid-Chilterns Chalk	GB40601G601200	Poor	Poor	Poor	2015

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



7 River and coastal flooding



7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

0

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).

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

7.2 Historical Flood Events

Records within 250m

1

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 54**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
2	158m E	Ea06januarywinter2021	2021-01-18 2021-01-18	Main river	Unknown	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

1

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.

Features are displayed on the River and coastal flooding map on **page 54**

ID	Location	
7	211m E	Area benefiting from flood defences

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

7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

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

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

7.7 Flood Zone 3

Records within 50m

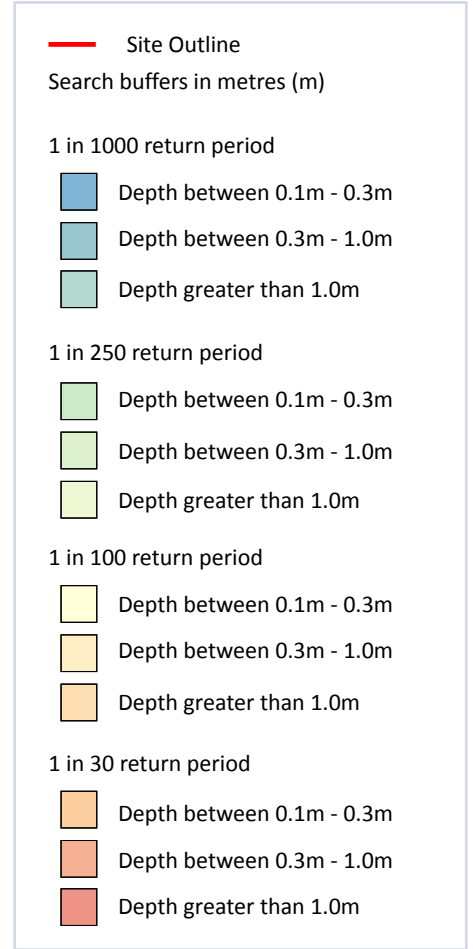
0

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

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.1m - 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 58**

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.

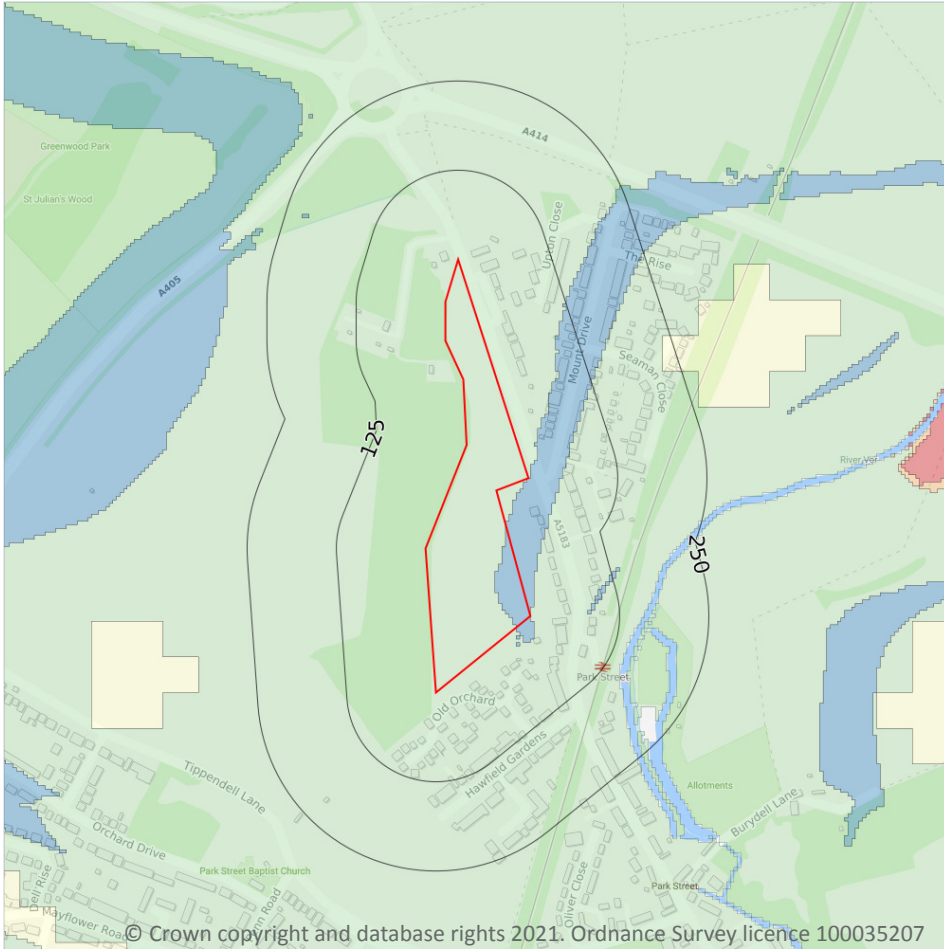
The table below shows the maximum flood depths for a range of return periods for the site.

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 0.3m and 1.0m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

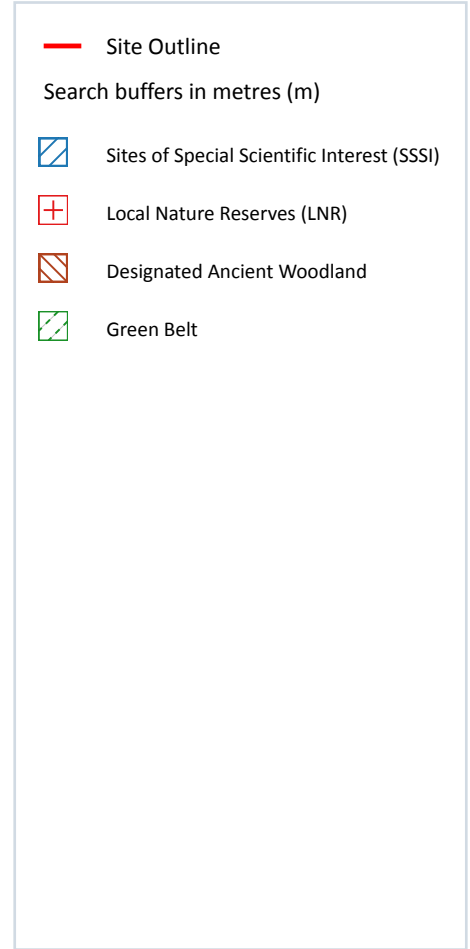
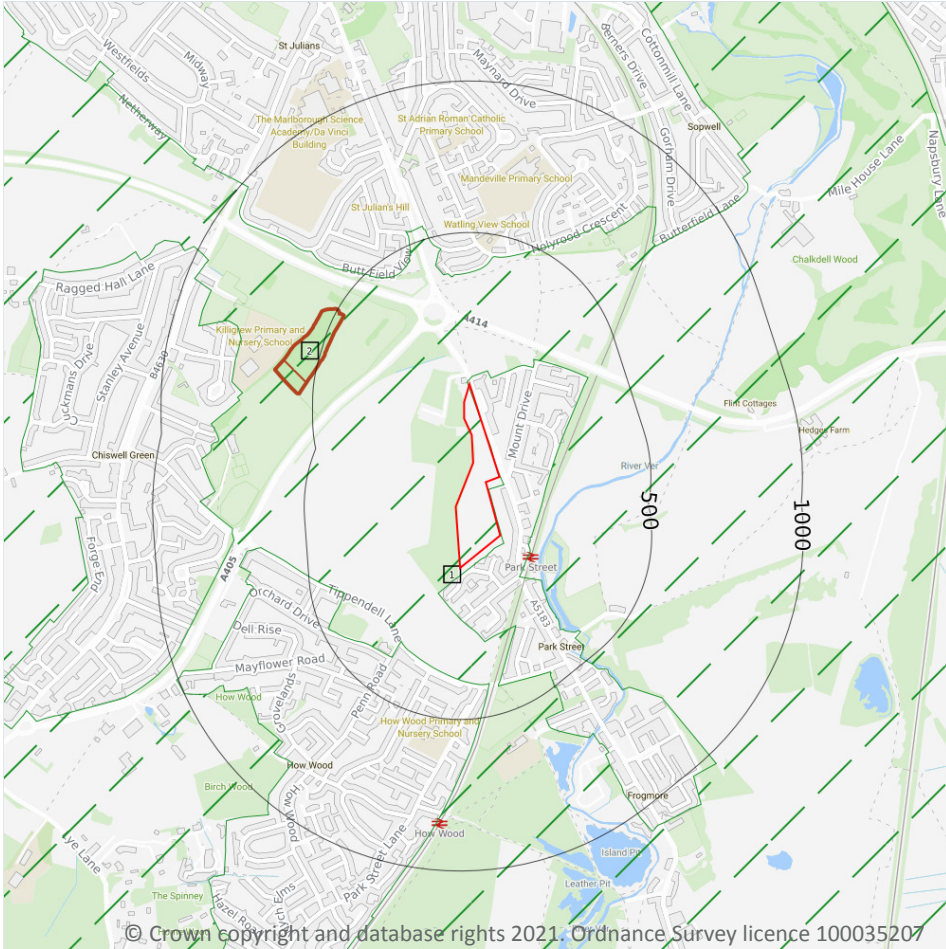
Low

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

Features are displayed on the Groundwater flooding map on **page 60**

This data is sourced from Ambient Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

1

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

Features are displayed on the Environmental designations map on **page 61**

ID	Location	Name	Data source
-	1521m S	Moor Mill Quarry, West	Natural England

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m

1

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.

Features are displayed on the Environmental designations map on **page 61**

ID	Location	Name	Data source
-	1577m NE	Watercress Wildlife Site	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

4

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 61**

ID	Location	Name	Woodland Type
2	472m NW	St.julians Wood	Ancient & Semi-Natural Woodland
-	1506m SW	Blackgreen/roundwoods	Ancient & Semi-Natural Woodland
-	1692m W	Park Wood	Ancient Replanted Woodland
-	1853m SW	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

1

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

Features are displayed on the Environmental designations map on **page 61**

ID	Location	Name	Local Authority name
1	On site	London	St Albans

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

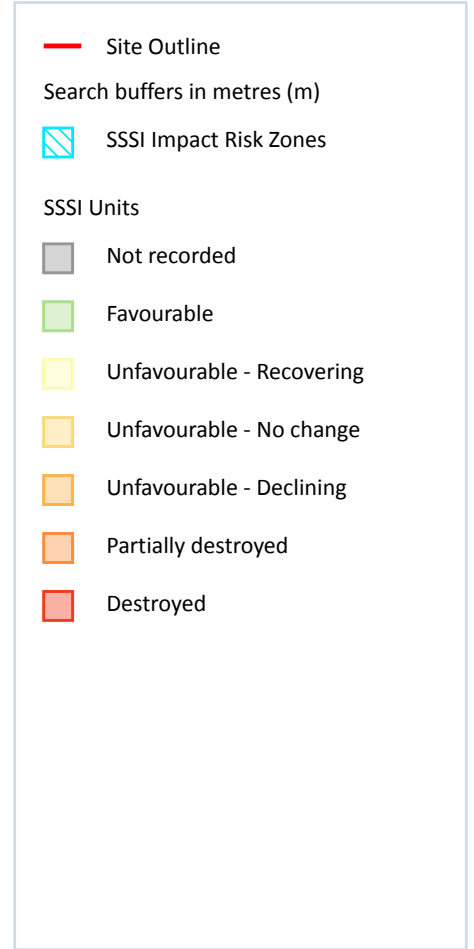
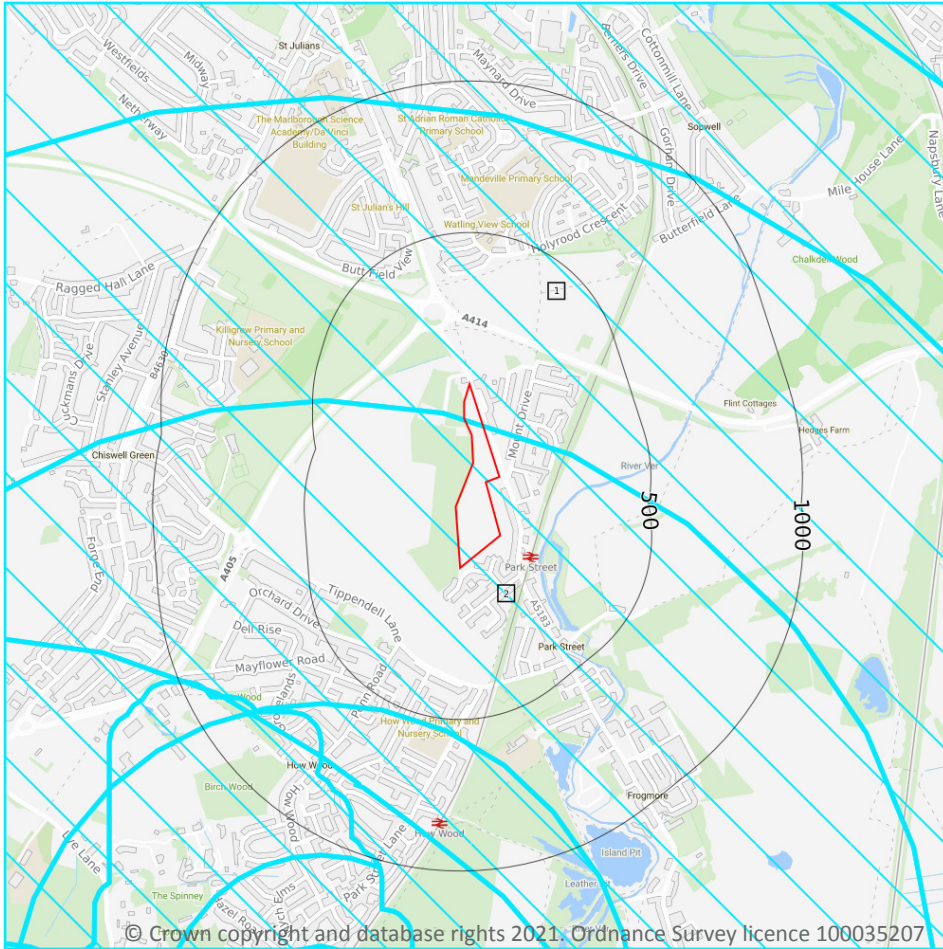
0

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

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



SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

2

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 66**

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t.</p>

ID	Location	Type of developments requiring consultation
2	On site	<p>Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t.</p> <p>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	1
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on **page 66**

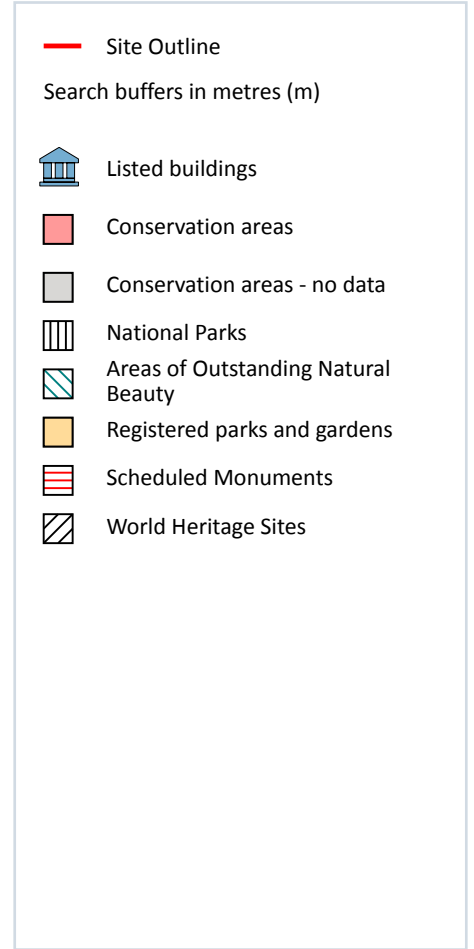
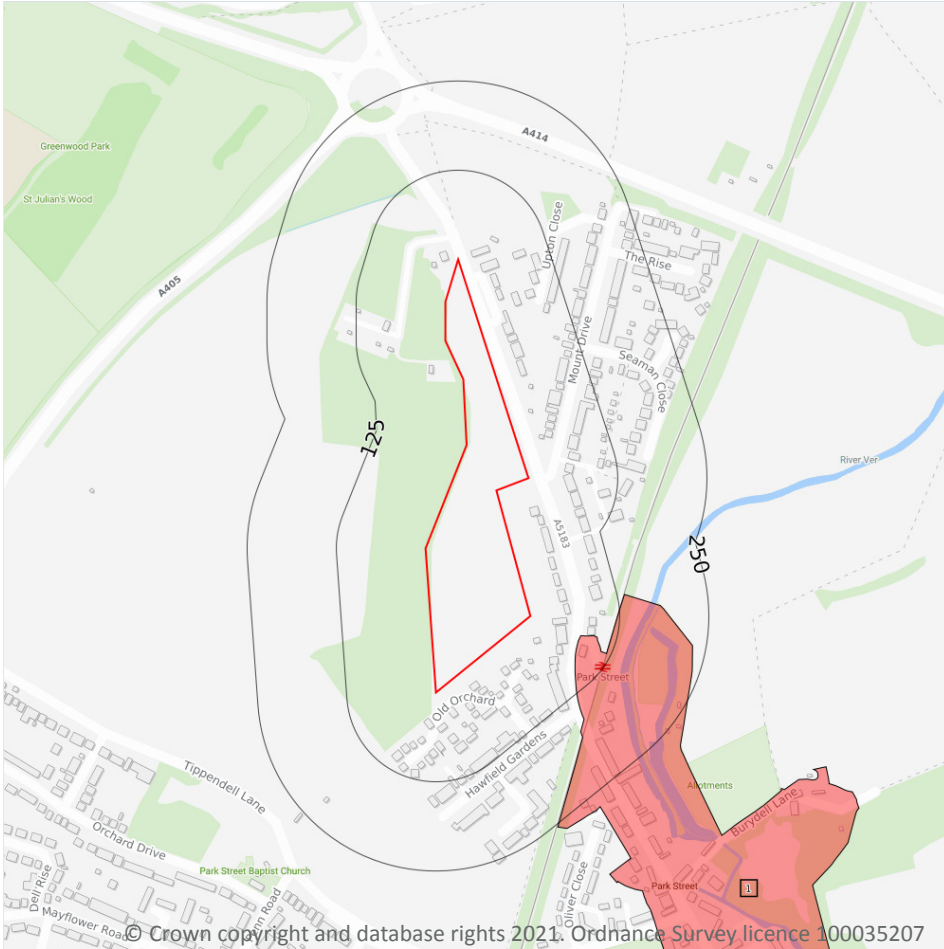
ID: -
 Location: 1521m S
 SSSI name: Moor Mill Quarry, West
 Unit name: Whole Site
 Broad habitat: Earth Heritage
 Condition: Unfavourable - No change
 Reportable features:

Feature name	Feature condition	Date of assessment
FB - Quaternary of the Thames	Unfavourable - No change	12/02/2009

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



11 Visual and cultural designations



11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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

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

11.5 Conservation Areas

Records within 250m

1

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



Features are displayed on the Visual and cultural designations map on **page 68**

ID	Location	Name	District	Date of designation
1	76m SE	Park Street and Frogmore	St. Albans	30/03/1994

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

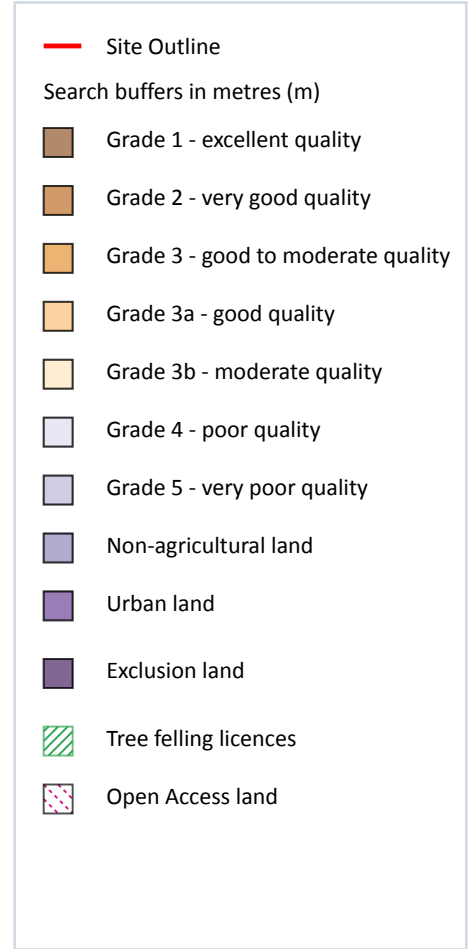
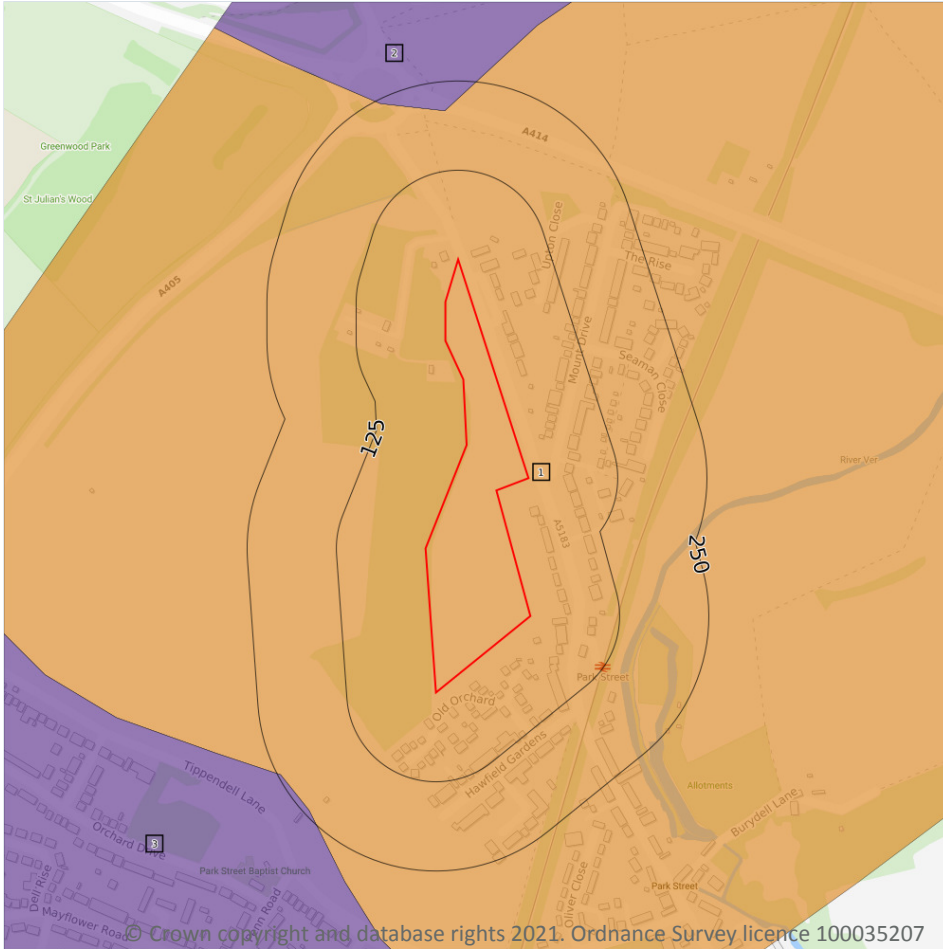
0

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

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



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

3

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 71**

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
2	209m N	Urban	-

ID	Location	Classification	Description
3	242m SW	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. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

2

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

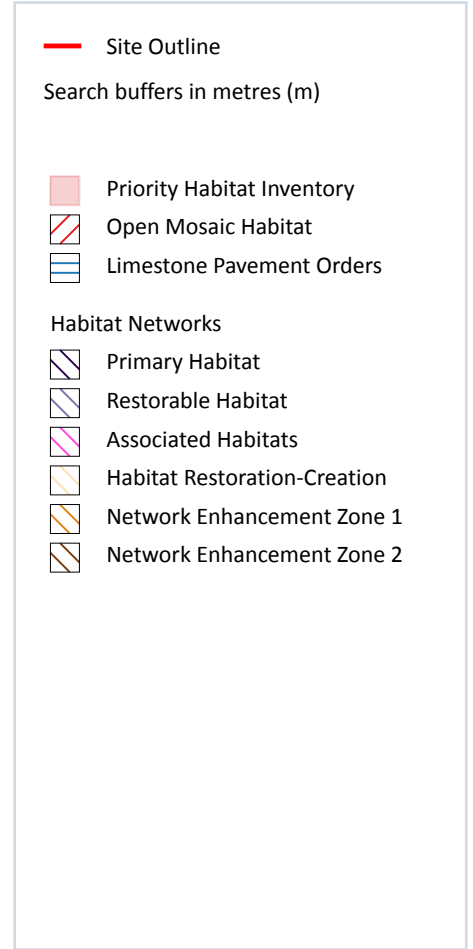


Location	Reference	Scheme	Start Date	End Date
On site	1053141	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025
30m W	1053141	Countryside Stewardship (Middle Tier)	01/01/2021	31/12/2025

This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

10

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

Features are displayed on the Habitat designations map on **page 74**

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	27m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	79m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	117m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	141m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	144m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	153m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	180m E	Good quality semi-improved grassland	Main habitat: GQSIG (INV > 50%)
9	181m E	Good quality semi-improved grassland	Main habitat: CFPGM (INV > 50%); GQSIG (INV > 50%)
10	244m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.

