

APPENDIX E: GroundSure EnviroInsight and GeoInsight Datasheets

BARTON PEVERIL COLLEGE, BARTON PEVERIL COLLEGE, CHESTNUT AVENUE, EASTLEIGH, SO50 5ZA

Order Details

Date: 31/03/2023
Your ref: GWPR5268_Barton_Peveril_College
Our Ref: GS-LKV-HDC-LMU-E19

Site Details

Location: 444668 118257
Area: 4.99 ha
Authority: [Eastleigh Borough Council](#)



Summary of findings

p. 2 **Aerial image**

p. 8

OS MasterMap site plan

p.13 groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	Historical industrial land uses	0	0	1	18	-
15	1.2	Historical tanks	0	0	1	31	-
17	1.3	Historical energy features	0	0	2	11	-
18	1.4	Historical petrol stations	0	0	0	0	-
18	1.5	Historical garages	0	0	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	Historical industrial land uses	0	0	1	21	-
20	2.2	Historical tanks	0	0	4	42	-
22	2.3	Historical energy features	0	0	4	26	-
24	2.4	Historical petrol stations	0	0	0	0	-
24	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
25	3.1	Active or recent landfill	0	0	0	0	-
25	3.2	Historical landfill (BGS records)	0	0	0	0	-
26	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
26	3.4	Historical landfill (EA/NRW records)	0	0	0	2	-
26	3.5	Historical waste sites	0	0	0	0	-
27	3.6	Licensed waste sites	0	0	0	0	-
27	3.7	Waste exemptions	0	0	1	1	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
28	4.1	Recent industrial land uses	2	0	11	-	-
29	4.2	Current or recent petrol stations	0	0	0	1	-
30	4.3	Electricity cables	0	0	0	0	-
30	4.4	Gas pipelines	0	0	0	0	-
30	4.5	Sites determined as Contaminated Land	0	0	0	0	-



30	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
30	4.7	Regulated explosive sites	0	0	0	0	-
31	4.8	Hazardous substance storage/usage	0	0	0	0	-
31	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
31	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
31	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	0	2	-
32	4.12	Radioactive Substance Authorisations	0	0	0	0	-
32	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	11	-
34	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
34	4.15	Pollutant release to public sewer	0	0	0	0	-
34	4.16	List 1 Dangerous Substances	0	0	0	0	-
34	4.17	<u>List 2 Dangerous Substances</u>	0	0	0	1	-
34	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	0	10	-
36	4.19	Pollution inventory substances	0	0	0	0	-
36	4.20	Pollution inventory waste transfers	0	0	0	0	-
36	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
37	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
39	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
40	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
41	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
41	5.5	Groundwater vulnerability- local information	None (within 0m)				
42	5.6	Groundwater abstractions	0	0	0	0	0
43	5.7	<u>Surface water abstractions</u>	0	0	0	0	2
43	5.8	Potable abstractions	0	0	0	0	0
44	5.9	Source Protection Zones	0	0	0	0	-
44	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
45	6.1	Water Network (OS MasterMap)	0	0	0	-	-



45	6.2	<u>Surface water features</u>	0	0	2	-	-
46	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
46	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
47	6.5	WFD Groundwater bodies	0	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
48	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
49	7.2	Historical Flood Events	0	0	0	-	-
49	7.3	Flood Defences	0	0	0	-	-
49	7.4	<u>Areas Benefiting from Flood Defences</u>	0	0	1	-	-
49	7.5	Flood Storage Areas	0	0	0	-	-
50	7.6	Flood Zone 2	None (within 50m)				
50	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
51	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
53	9.1	<u>Groundwater flooding</u>	High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
54	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	0	1
55	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
55	10.3	<u>Special Areas of Conservation (SAC)</u>	0	0	0	0	1
55	10.4	Special Protection Areas (SPA)	0	0	0	0	0
56	10.5	National Nature Reserves (NNR)	0	0	0	0	0
56	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
56	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	11
57	10.8	Biosphere Reserves	0	0	0	0	0
57	10.9	Forest Parks	0	0	0	0	0
57	10.10	Marine Conservation Zones	0	0	0	0	0
57	10.11	Green Belt	0	0	0	0	0
58	10.12	Proposed Ramsar sites	0	0	0	0	0



58	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
58	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
58	10.15	Nitrate Sensitive Areas	0	0	0	0	0
59	10.16	<u>Nitrate Vulnerable Zones</u>	1	0	0	1	0
60	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
61	10.18	<u>SSSI Units</u>	0	0	0	0	17
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
71	11.1	World Heritage Sites	0	0	0	-	-
72	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
72	11.3	National Parks	0	0	0	-	-
72	11.4	<u>Listed Buildings</u>	0	0	1	-	-
73	11.5	Conservation Areas	0	0	0	-	-
73	11.6	Scheduled Ancient Monuments	0	0	0	-	-
73	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
74	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
75	12.2	Open Access Land	0	0	0	-	-
75	12.3	Tree Felling Licences	0	0	0	-	-
75	12.4	Environmental Stewardship Schemes	0	0	0	-	-
75	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
76	13.1	<u>Priority Habitat Inventory</u>	0	0	2	-	-
77	13.2	Habitat Networks	0	0	0	-	-
77	13.3	Open Mosaic Habitat	0	0	0	-	-
77	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
78	14.1	<u>10k Availability</u>	Identified (within 500m)				
79	14.2	Artificial and made ground (10k)	0	0	0	0	-
80	14.3	<u>Superficial geology (10k)</u>	2	0	3	4	-



81	14.4	Landslip (10k)	0	0	0	0	-
82	14.5	<u>Bedrock geology (10k)</u>	1	0	1	0	-
83	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
84	15.1	<u>50k Availability</u>	Identified (within 500m)				
85	15.2	Artificial and made ground (50k)	0	0	0	0	-
85	15.3	Artificial ground permeability (50k)	0	0	-	-	-
86	15.4	<u>Superficial geology (50k)</u>	2	0	2	2	-
87	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
87	15.6	Landslip (50k)	0	0	0	0	-
87	15.7	Landslip permeability (50k)	None (within 50m)				
88	15.8	<u>Bedrock geology (50k)</u>	1	0	0	0	-
89	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
89	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
90	16.1	<u>BGS Boreholes</u>	0	0	3	-	-
Page	Section	Natural ground subsidence					
92	17.1	<u>Shrink swell clays</u>	Low (within 50m)				
93	17.2	<u>Running sands</u>	Very low (within 50m)				
95	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
96	17.4	<u>Collapsible deposits</u>	Low (within 50m)				
97	17.5	<u>Landslides</u>	Very low (within 50m)				
98	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
99	18.1	Natural cavities	0	0	0	0	-
100	18.2	BritPits	0	0	0	0	-
100	18.3	<u>Surface ground workings</u>	0	0	3	-	-
100	18.4	Underground workings	0	0	0	0	0
100	18.5	<u>Historical Mineral Planning Areas</u>	0	0	0	1	-



101	18.6	Non-coal mining	0	0	0	0	0
101	18.7	Mining cavities	0	0	0	0	0
101	18.8	JPB mining areas	None (within 0m)				
101	18.9	Coal mining	None (within 0m)				
102	18.10	Brine areas	None (within 0m)				
102	18.11	Gypsum areas	None (within 0m)				
102	18.12	Tin mining	None (within 0m)				
102	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
103	19.1	Radon	Between 3% and 5% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
105	20.1	BGS Estimated Background Soil Chemistry	2	1	-	-	-
105	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
105	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
106	21.1	Underground railways (London)	0	0	0	-	-
106	21.2	Underground railways (Non-London)	0	0	0	-	-
106	21.3	Railway tunnels	0	0	0	-	-
106	21.4	Historical railway and tunnel features	0	0	0	-	-
106	21.5	Royal Mail tunnels	0	0	0	-	-
107	21.6	Historical railways	0	0	0	-	-
107	21.7	Railways	0	0	0	-	-
107	21.8	Crossrail 1	0	0	0	0	-
107	21.9	Crossrail 2	0	0	0	0	-
107	21.10	HS2	0	0	0	0	-

Recent aerial photograph



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Capture Date: 05/04/2020

Site Area: 4.99ha



Recent site history - 2017 aerial photograph



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Capture Date: 21/06/2017

Site Area: 4.99ha



Recent site history - 2013 aerial photograph



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Capture Date: 03/06/2013

Site Area: 4.99ha



Recent site history - 2005 aerial photograph



Capture Date: 27/05/2005

Site Area: 4.99ha



Recent site history - 1999 aerial photograph



Capture Date: 30/04/1999

Site Area: 4.99ha



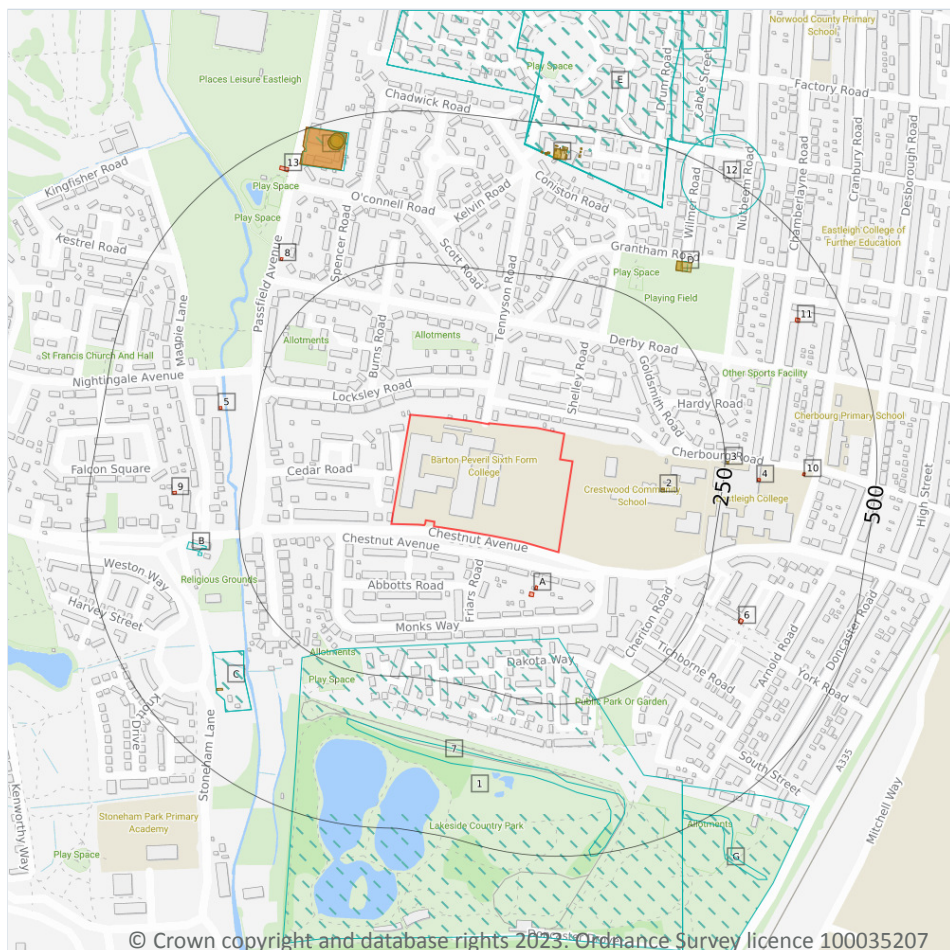
OS MasterMap site plan



Site Area: 4.99ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

19

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

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

ID	Location	Land use	Dates present	Group ID
1	142m SE	Nursery	1976	1884957



ID	Location	Land use	Dates present	Group ID
B	306m W	Smithy	1868	1875509
B	315m W	Smithy	1908	1875507
C	320m SW	Gas Valve Compound	1988	1915115
C	320m SW	Gas Valve Compound	1976	1954924
7	328m SW	Unspecified Ground Workings	1988	1851511
D	330m NE	Unspecified Tank	1957 - 1968	1894722
E	405m NE	Unspecified Works	1988	1884874
E	405m NE	Unspecified Works	1989	1884875
E	405m NE	Unspecified Works	1957	1902441
E	405m NE	Unspecified Works	1969 - 1976	1963586
E	406m NE	Unspecified Works	1957	1933208
F	416m NW	Gas Holder Station	1908	1870467
12	429m NE	Old Gravel Pit	1888 - 1895	1947402
G	434m SE	Nursery	1981	1905049
F	451m NW	Gasometer	1908	1860978
F	457m NW	Unspecified Tank	1957	1918313
F	459m NW	Unspecified Tank	1957	1956593
G	472m SE	Unspecified Ground Workings	1989	1851512

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

32

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

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



ID	Location	Land use	Dates present	Group ID
2	152m E	Unspecified Tank	1967 - 1997	319964
3	253m E	Unspecified Tank	1989 - 1992	316856
D	325m NE	Unspecified Tank	1950	320738
D	326m NE	Unspecified Tank	1950 - 1953	317499
C	387m SW	Unspecified Tank	1974 - 1992	313917
F	418m NW	Gasholder Station	1909	309467
H	443m N	Cooling Tanks	1992	313950
H	443m N	Cooling Tanks	1968	325336
H	444m N	Cooling Tanks	1966	316134
H	445m N	Unspecified Tank	1966 - 1992	326835
H	448m N	Unspecified Tank	1992	326687
H	449m N	Tanks	1968	322653
H	449m N	Unspecified Tank	1950	318458
H	449m N	Tanks	1966	322415
H	450m N	Unspecified Tank	1950	313238
H	450m N	Unspecified Tank	1953	319129
H	451m N	Unspecified Tank	1992	303060
H	451m N	Tanks	1968	318839
H	451m N	Unspecified Tank	1950	319996
H	451m N	Unspecified Tank	1950	312782
H	451m N	Unspecified Tank	1953	322737
F	452m NW	Unspecified Tank	1933	303067
F	452m NW	Gas Holder	1909	311498
F	455m NW	Gasholder	1950 - 1953	323121
H	456m N	Cooling Tanks	1992	323748
H	459m N	Unspecified Tank	1968	318727
H	459m N	Unspecified Tank	1966	325553
H	460m N	Unspecified Tank	1992	303059



ID	Location	Land use	Dates present	Group ID
H	464m N	Unspecified Tank	1968	317424
H	464m N	Unspecified Tank	1966	325481
H	464m N	Unspecified Tank	1968	317783
H	464m N	Unspecified Tank	1966	322023

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	13
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land use	Dates present	Group ID
A	63m SE	Electricity Substation	1968 - 1997	209182
A	75m SE	Electricity Substation	1967 - 1991	207563
4	305m E	Electricity Substation	1985 - 1992	202442
5	306m W	Electricity Substation	1992	188400
6	317m SE	Electricity Substation	1985 - 1992	202309
8	329m NW	Gas Governor	1992	191896
9	357m W	Electricity Substation	1992	188403
10	378m E	Electricity Substation	1950 - 1992	205362
F	418m NW	Gasholder Station	1909	191697
11	422m NE	Electricity Substation	1984 - 1992	208777
13	447m NW	Electricity Substation	1992	188401
F	452m NW	Gas Holder	1909	192017
F	455m NW	Gasholder	1950 - 1953	195805

This data is sourced from Ordnance Survey / Groundsure.



1.4 Historical petrol stations

Records within 500m**0**

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m**0**

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

This data is sourced from Ordnance Survey / Groundsure.

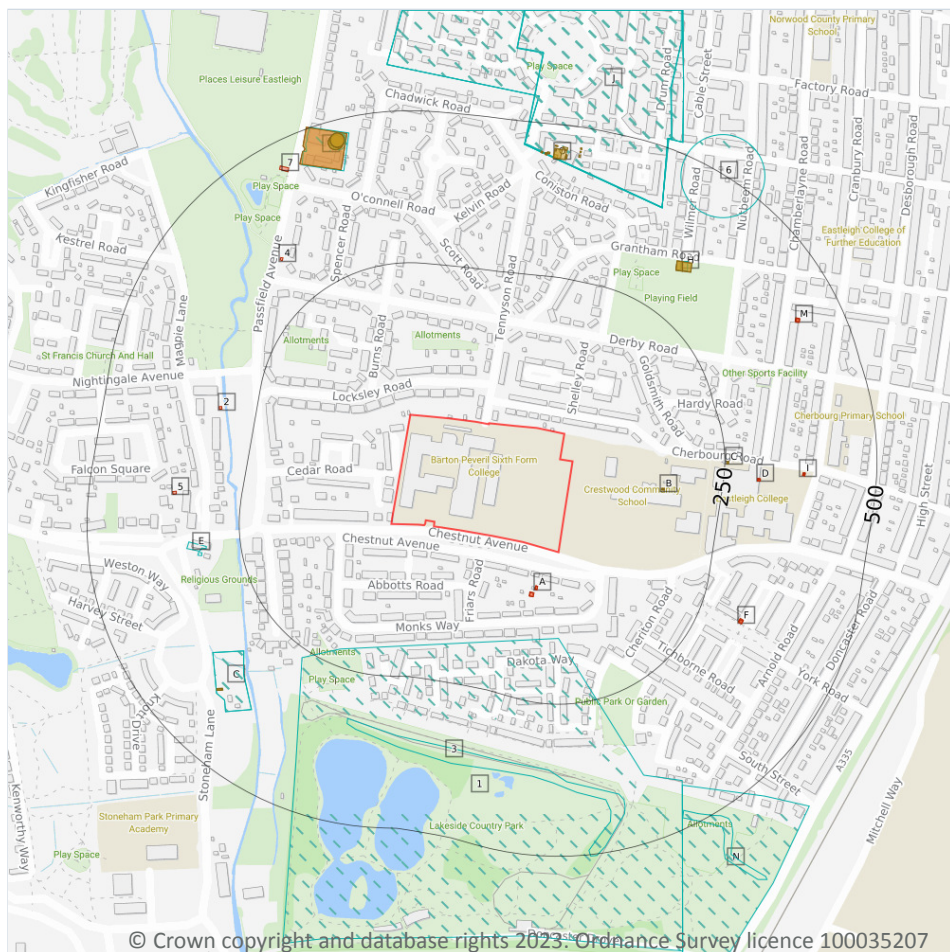
1.6 Historical military land

Records within 500m**0**

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

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

2 Past land use - un-grouped



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

2.1 Historical industrial land uses

Records within 500m

22

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
1	142m SE	Nursery	1976	1884957
E	306m W	Smithy	1868	1875509
E	315m W	Smithy	1908	1875507



ID	Location	Land Use	Date	Group ID
G	320m SW	Gas Valve Compound	1988	1915115
G	320m SW	Gas Valve Compound	1976	1954924
3	328m SW	Unspecified Ground Workings	1988	1851511
H	330m NE	Unspecified Tank	1968	1894722
H	330m NE	Unspecified Tank	1957	1894722
J	405m NE	Unspecified Works	1988	1884874
J	405m NE	Unspecified Works	1976	1963586
J	405m NE	Unspecified Works	1969	1963586
K	405m NE	Unspecified Works	1957	1902441
K	406m NE	Unspecified Works	1957	1933208
K	406m NE	Unspecified Works	1957	1933208
L	416m NW	Gas Holder Station	1908	1870467
6	429m NE	Old Gravel Pit	1895	1947402
N	434m SE	Nursery	1981	1905049
L	451m NW	Gasometer	1908	1860978
L	457m NW	Unspecified Tank	1957	1918313
L	459m NW	Unspecified Tank	1957	1956593
L	459m NW	Unspecified Tank	1957	1956593
N	472m SE	Unspecified Ground Workings	1989	1851512

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

46

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	152m E	Unspecified Tank	1991	319964



ID	Location	Land Use	Date	Group ID
B	152m E	Unspecified Tank	1997	319964
B	152m E	Unspecified Tank	1967	319964
B	153m E	Unspecified Tank	1968	319964
C	253m E	Unspecified Tank	1989	316856
C	253m E	Unspecified Tank	1992	316856
H	325m NE	Unspecified Tank	1950	320738
H	326m NE	Unspecified Tank	1953	317499
H	326m NE	Unspecified Tank	1950	317499
H	330m NE	Unspecified Tank	1950	317499
H	331m NE	Unspecified Tank	1950	317499
G	387m SW	Unspecified Tank	1989	313917
G	387m SW	Unspecified Tank	1989	313917
G	388m SW	Unspecified Tank	1992	313917
G	388m SW	Unspecified Tank	1974	313917
L	418m NW	Gasholder Station	1909	309467
O	443m N	Cooling Tanks	1992	313950
O	443m N	Cooling Tanks	1968	325336
O	444m N	Cooling Tanks	1966	316134
O	445m N	Unspecified Tank	1992	326835
O	446m N	Unspecified Tank	1968	326835
O	446m N	Unspecified Tank	1966	326835
O	448m N	Unspecified Tank	1992	326687
O	449m N	Tanks	1968	322653
O	449m N	Unspecified Tank	1950	318458
O	449m N	Tanks	1966	322415
O	450m N	Unspecified Tank	1953	319129
O	450m N	Unspecified Tank	1950	313238
O	451m N	Unspecified Tank	1992	303060

ID	Location	Land Use	Date	Group ID
O	451m N	Tanks	1968	318839
O	451m N	Unspecified Tank	1950	319996
O	451m N	Unspecified Tank	1953	322737
O	451m N	Unspecified Tank	1950	312782
L	452m NW	Gas Holder	1909	311498
L	452m NW	Unspecified Tank	1933	303067
L	455m NW	Gasholder	1950	323121
L	456m NW	Gasholder	1953	323121
L	456m NW	Gasholder	1950	323121
O	456m N	Cooling Tanks	1992	323748
O	459m N	Unspecified Tank	1968	318727
O	459m N	Unspecified Tank	1966	325553
O	460m N	Unspecified Tank	1992	303059
O	464m N	Unspecified Tank	1968	317424
O	464m N	Unspecified Tank	1966	325481
O	464m N	Unspecified Tank	1968	317783
O	464m N	Unspecified Tank	1966	322023

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

30

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	63m SE	Electricity Substation	1997	209182
A	64m SE	Electricity Substation	1968	209182
A	75m SE	Electricity Substation	1991	207563



ID	Location	Land Use	Date	Group ID
A	75m SE	Electricity Substation	1967	207563
D	305m E	Electricity Substation	1985	202442
D	306m E	Electricity Substation	1989	202442
D	306m E	Electricity Substation	1992	202442
2	306m W	Electricity Substation	1992	188400
F	317m SE	Electricity Substation	1989	202309
F	317m SE	Electricity Substation	1985	202309
F	318m SE	Electricity Substation	1992	202309
4	329m NW	Gas Governor	1992	191896
5	357m W	Electricity Substation	1992	188403
I	378m E	Electricity Substation	1985	205362
I	379m E	Electricity Substation	1967	205362
I	379m E	Electricity Substation	1989	205362
I	379m E	Electricity Substation	1950	205362
I	379m E	Electricity Substation	1950	205362
I	380m E	Electricity Substation	1992	205362
I	380m E	Electricity Substation	1950	205362
I	380m E	Electricity Substation	1968	205362
L	418m NW	Gasholder Station	1909	191697
M	422m NE	Electricity Substation	1989	208777
M	423m NE	Electricity Substation	1992	208777
M	423m NE	Electricity Substation	1984	208777
7	447m NW	Electricity Substation	1992	188401
L	452m NW	Gas Holder	1909	192017
L	455m NW	Gasholder	1950	195805
L	456m NW	Gasholder	1953	195805
L	456m NW	Gasholder	1950	195805

This data is sourced from Ordnance Survey / Groundsure.



2.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

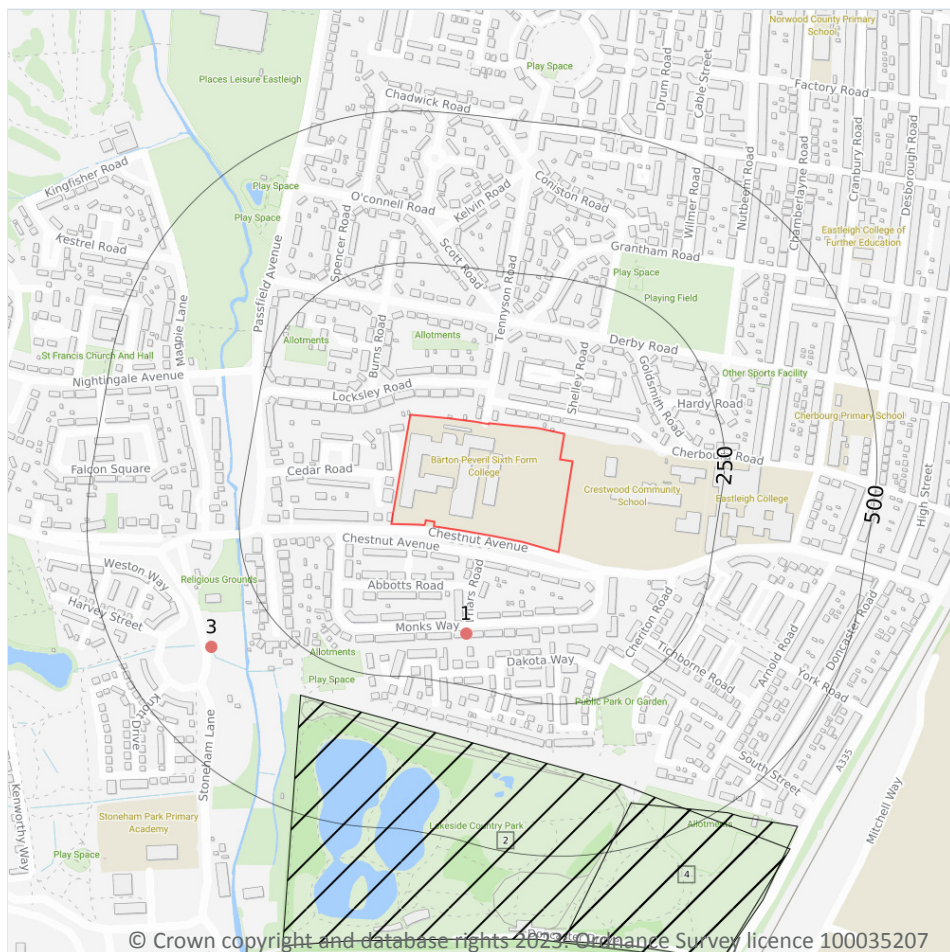
0

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

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



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

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

2

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 25**

ID	Location	Details		
2	311m SW	Site Address: Land at the west of Wide Lane, Wide Lane - Doncaster Drove, Eastleigh, Hampshire Licence Holder Address: Hooton, Little Sutton, South Wirral, Cheshire	Waste Licence: Yes Site Reference: FEA10, 9/20 Waste Type: Inert, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 19/01/1983 Licence Surrender: -	Operator: - Licence Holder: Sir Alfred McAlpine and Son Limited First Recorded 19/01/1983 Last Recorded: -
4	428m SE	Site Address: Land at Lakeside, Wide Lane - Doncaster Drove, Eastleigh, Hampshire Licence Holder Address: Warren Farm, Down End Road, Fareham	Waste Licence: Yes Site Reference: FEA34, EA 094 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 24/05/1994 Licence Surrender: -	Operator: - Licence Holder: H T Hughes and Sons (Transport) Limited 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

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

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

3.6 Licensed waste sites

Records within 500m

0

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

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

3.7 Waste exemptions

Records within 500m

2

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.

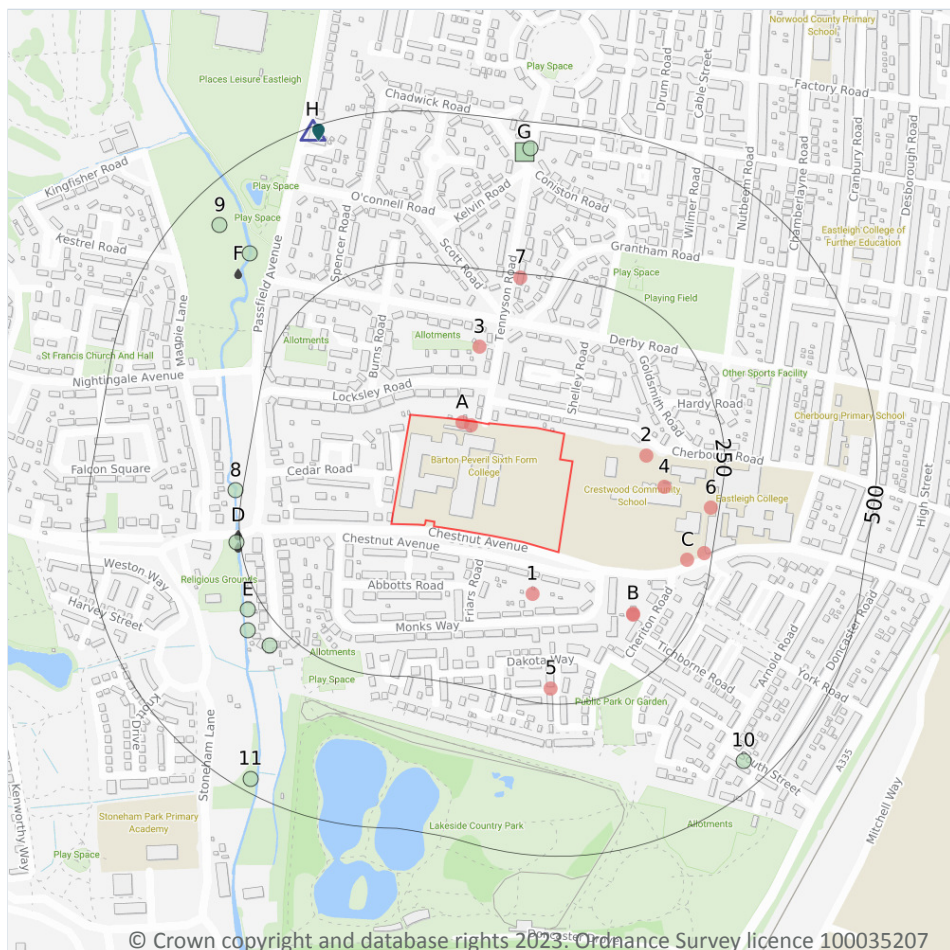
Features are displayed on the Waste and landfill map on **page 25**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	167m S	102, MONKS WAY, EASTLEIGH, SO50 5BG	WEX258188	Using waste exemption	Not on a farm	Use of waste in construction
3	359m SW	Land off Stoneham Lane Stoneham Lane Hampshire	EPR/CF0331VV /A001	Disposing of waste exemption	Non-Agricultural Waste Only	Deposit of waste from dredging of inland waters

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- ▲ Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

13

Current potentially contaminative industrial sites.

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

ID	Location	Company	Address	Activity	Category
A	On site	Electricity Sub Station	Hampshire, SO50	Electrical Features	Infrastructure and Facilities
A	On site	Gas Governor	Hampshire, SO50	Gas Features	Infrastructure and Facilities
1	78m SE	Electricity Sub Station	Hampshire, SO50	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
2	121m E	Electricity Sub Station	Hampshire, SO50	Electrical Features	Infrastructure and Facilities
3	123m N	Electricity Sub Station	Hampshire, SO50	Electrical Features	Infrastructure and Facilities
4	155m E	Tank	Hampshire, SO50	Tanks (Generic)	Industrial Features
B	158m SE	Sewage Pumping Station	Hampshire, SO50	Waste Storage, Processing and Disposal	Infrastructure and Facilities
B	160m SE	Pumping Station	Hampshire, SO50	Water Pumping Stations	Industrial Features
C	211m E	Gas Governor	Hampshire, SO50	Gas Features	Infrastructure and Facilities
5	224m S	Electricity Sub Station	Hampshire, SO50	Electrical Features	Infrastructure and Facilities
6	236m E	Electricity Sub Station	Hampshire, SO50	Electrical Features	Infrastructure and Facilities
C	237m E	Gas Governor	Hampshire, SO50	Gas Features	Infrastructure and Facilities
7	244m N	Terry Peach Ltd	31, Tennyson Road, Eastleigh, Hampshire, SO50 9FS	Distribution and Haulage	Transport, Storage and Delivery

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

1

Open, closed, under development and obsolete petrol stations.

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

ID	Location	Company	Address	LPG	Status
H	495m NW	SHELL	147-149, Passfield Avenue, Eastleigh, Southampton, Hampshire, SO50 9NH	No	Open

This data is sourced from Experian.



4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

2

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

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

ID	Location	Address	Details	
H	488m NW	Total Monksbrook Serv Stn, Passfield Ave, Eastleigh, SO50 9NH	Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
H	488m NW	Monksbrook Service Station (Total), 147-149 Passfield Avenue, Eastleigh, SO50 9NH	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified



This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

11

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

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

ID	Location	Address	Details	
D	252m W	CHESTNUT AVENUE CEO, CHESTNUT AVENUE, EASTLEIGH, HAMPSHIRE, SO50 9LR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: A00202 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 30/10/1989 Effective Date: 30/10/1989 Revocation Date: 14/07/1993
D	252m W	CHESTNUT AVENUE CEO, CHESTNUT AVENUE, EASTLEIGH, HAMPSHIRE, SO50 9LR	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: A00202 Permit Version: 2 Receiving Water: MONKS BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 15/07/1993 Effective Date: 15/07/1993 Revocation Date: 27/06/1995
D	252m W	CHESTNUT AVENUE CEO, CHESTNUT AVENUE, EASTLEIGH, HAMPSHIRE, SO50 9LR	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: A00202 Permit Version: 2 Receiving Water: MONKS BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 15/07/1993 Effective Date: 15/07/1993 Revocation Date: 27/06/1995
D	252m W	CHESTNUT AVENUE CEO, CHESTNUT AVENUE, EASTLEIGH, HAMPSHIRE, SO50 9LR	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: A00202 Permit Version: 3 Receiving Water: THE MONKS BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 28/06/1995 Effective Date: 28/06/1995 Revocation Date: 19/04/2016

ID	Location	Address	Details	
D	252m W	CHESTNUT AVENUE CEO, CHESTNUT AVENUE, EASTLEIGH, HAMPSHIRE, SO50 9LR	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: A00202 Permit Version: 3 Receiving Water: THE MONKS BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 28/06/1995 Effective Date: 28/06/1995 Revocation Date: 19/04/2016
D	252m W	CHESTNUT AVENUE CEO, CHESTNUT AVENUE, EASTLEIGH, HAMPSHIRE, SO50 9LR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: A00202 Permit Version: 4 Receiving Water: THE MONKS BROOK	Status: VARIED UNDER EPR 2010 Issue date: 20/04/2016 Effective Date: 20/04/2016 Revocation Date: -
D	252m W	CHESTNUT AVENUE CEO, CHESTNUT AVENUE, EASTLEIGH, HAMPSHIRE, SO50 9LR	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: A00202 Permit Version: 4 Receiving Water: THE MONKS BROOK	Status: VARIED UNDER EPR 2010 Issue date: 20/04/2016 Effective Date: 20/04/2016 Revocation Date: -
D	254m W	OVERFLOW AT CHESTNUT AVENUE, EASTLEIGH, HAMPSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: H01150 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 18/01/1963 Effective Date: 18/01/1963 Revocation Date: -
F	365m NW	PIRELLI GENERAL CABLE WORKS LTD, P.O. BOX 6, LEIGH ROAD, EASTLEIGH HAMPSHIRE	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: N00109 Permit Version: 1 Receiving Water: FRESHWATER STREAM OR RIVER	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 03/03/1980 Effective Date: 03/03/1980 Revocation Date: 25/05/1999
F	365m NW	PIRELLI GENERAL CABLE WORKS LTD, P.O. BOX 6, LEIGH ROAD, EASTLEIGH HAMPSHIRE	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE (CONTAM SURFACE WATER, NOT WASTE SIT Permit Number: N00109 Permit Version: 2 Receiving Water: FRESHWATER STREAM OR RIVER	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 03/03/1980 Effective Date: 26/05/1999 Revocation Date: 14/01/2004
F	365m NW	PIRELLI GENERAL CABLE WORKS LTD, P.O. BOX 6, EASTLEIGH, HAMPSHIRE	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: W00269 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: REVOKED - UNSPECIFIED Issue date: 01/04/1991 Effective Date: 01/04/1991 Revocation Date: 14/03/2005

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**1**

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

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

ID	Location	Name	Status	Receiving Water	Authorised Substances
G	449m N	Pirelli General Swo	Not Active	Monks Brook	Chromium, Copper, Iron, Lead, Nickel, Zinc

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m**10**

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

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



ID	Location	Details	
D	255m W	Incident Date: 15/06/2009 Incident Identification: 688056 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
8	261m W	Incident Date: 22/02/2003 Incident Identification: 138662 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	274m SW	Incident Date: 26/12/2002 Incident Identification: 127704 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	282m SW	Incident Date: 09/02/2003 Incident Identification: 135780 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	293m SW	Incident Date: 28/04/2003 Incident Identification: 154646 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
F	374m NW	Incident Date: 22/04/2002 Incident Identification: 73732 Pollutant: Other Pollutant Pollutant Description: Natural Ochre	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
9	441m NW	Incident Date: 28/06/2001 Incident Identification: 11988 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
G	456m N	Incident Date: 02/07/2004 Incident Identification: 248493 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
10	457m SE	Incident Date: 22/08/2003 Incident Identification: 184320 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
11	478m SW	Incident Date: 11/08/2003 Incident Identification: 181240 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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



4.19 Pollution inventory substances

Records within 500m**0**

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

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

4.20 Pollution inventory waste transfers

Records within 500m**0**

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

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

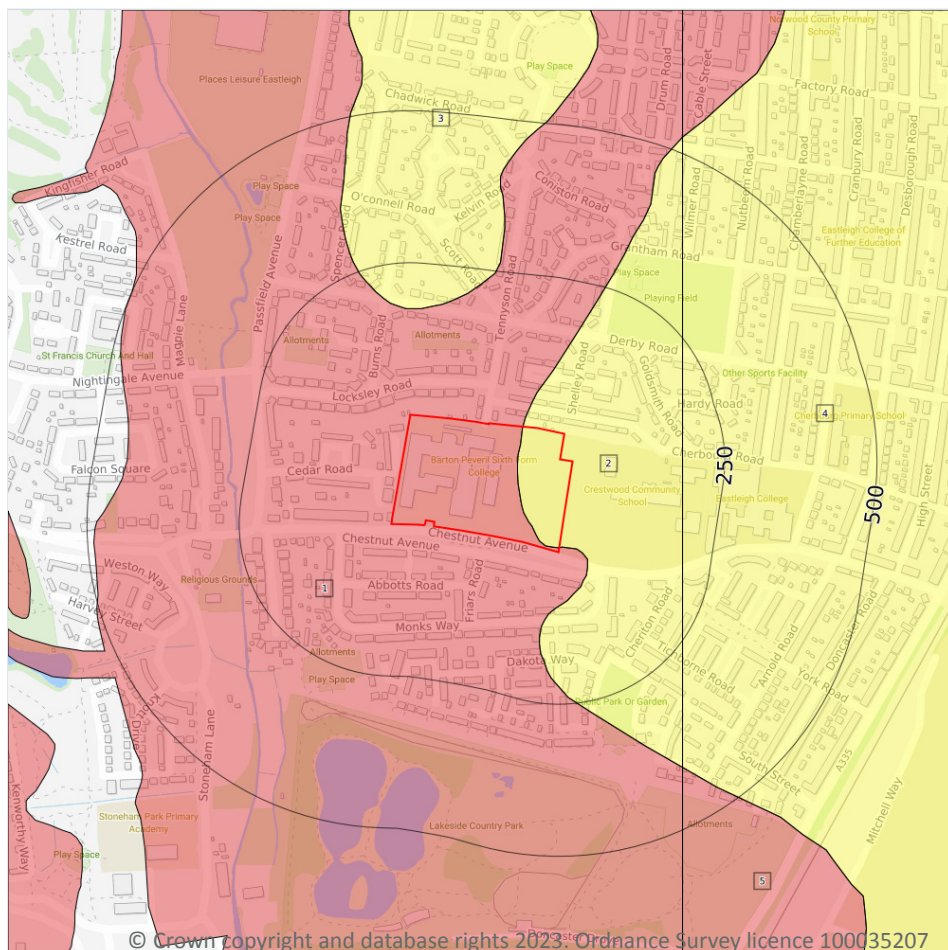
4.21 Pollution inventory radioactive waste

Records within 500m**0**

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

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

5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

5

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 37**

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

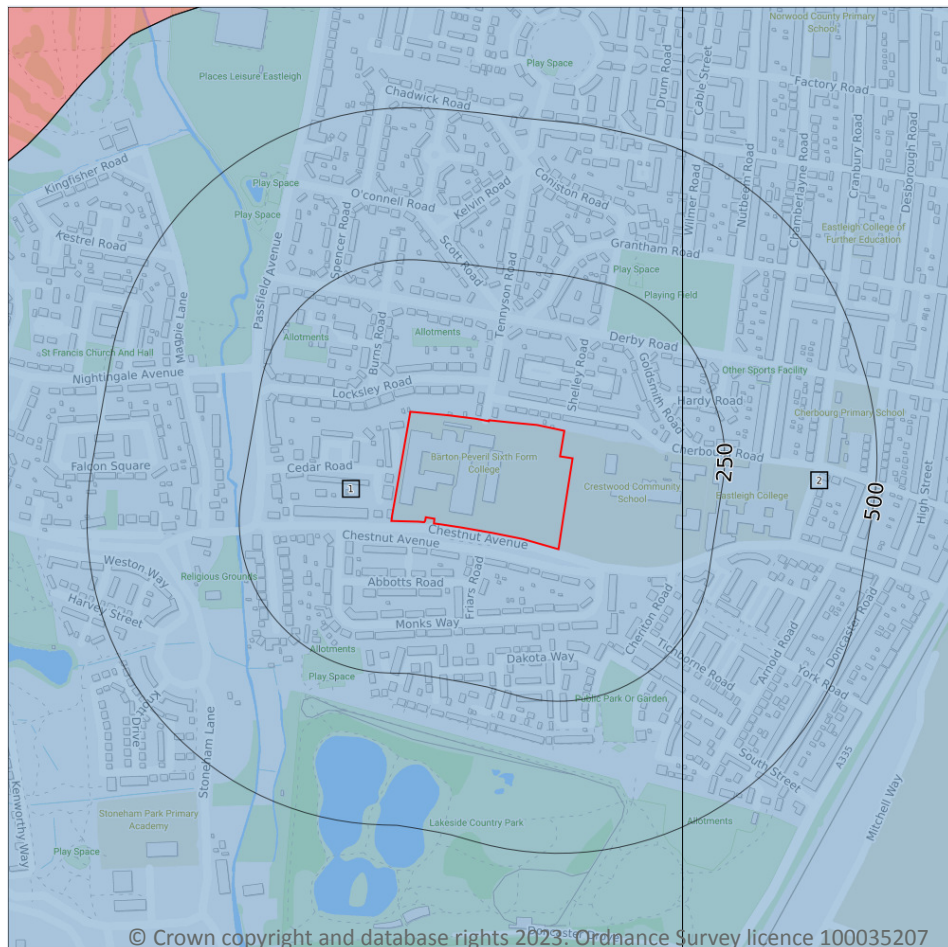


ID	Location	Designation	Description
3	174m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	181m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	408m 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

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



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

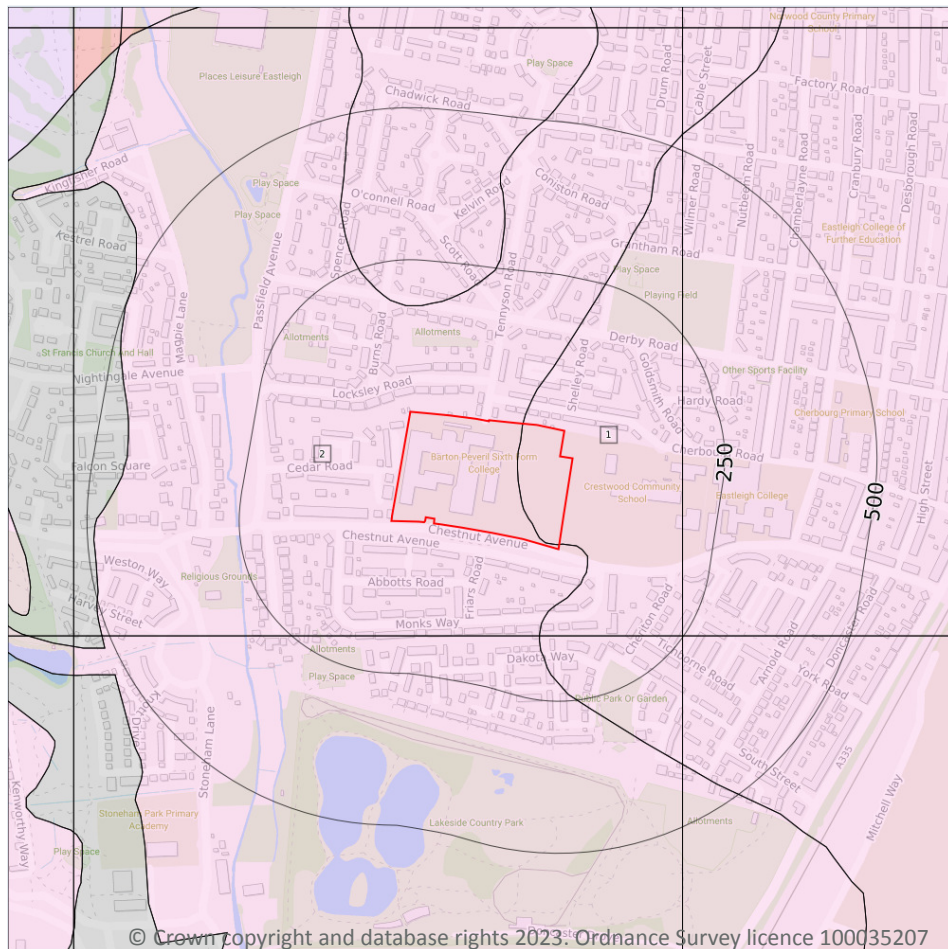
Features are displayed on the Bedrock aquifer map on **page 39**

ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	181m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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



Groundwater vulnerability



— Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

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 40**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed
2	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed

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

5.4 Groundwater vulnerability- soluble rock risk

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

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

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

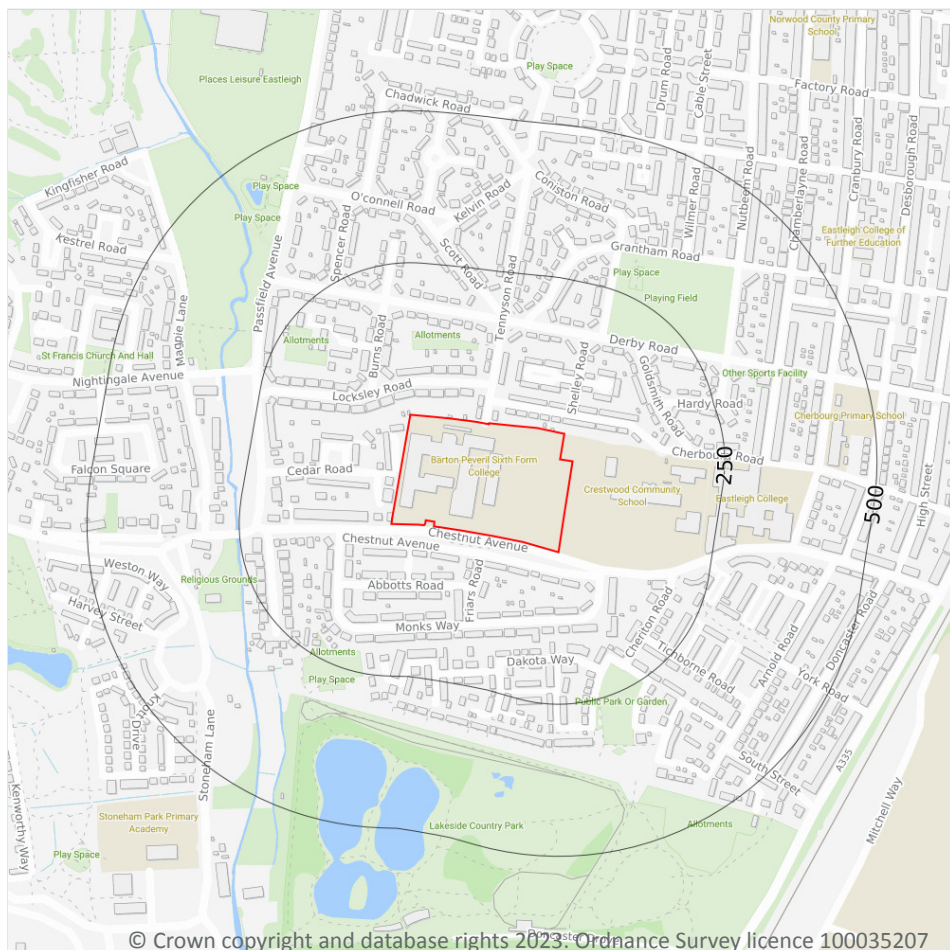
5.5 Groundwater vulnerability- local information

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

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

Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

0

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.

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



5.7 Surface water abstractions

Records within 2000m

2

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 42**

ID	Location	Details	
-	1798m NE	Status: Historical Licence No: SO/042/0031/005 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: Southern Region Surface Waters Point: ITCHEN NAVIGATION IN EASTLEIGH Data Type: Point Name: Eastleigh Borough Council Easting: 446447 Northing: 119074	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 06/10/2009 Expiry Date: 31/03/2019 Issue No: 1 Version Start Date: 06/10/2009 Version End Date: -
-	1833m E	Status: Historical Licence No: 11/42/22.10/119 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Southern Region Surface Waters Point: ITCHEN CARRIER AT RAIL WORKSHOP, EASTLEIGH Data Type: Point Name: The Plant Director Easting: 446580 Northing: 117720	Annual Volume (m ³): 105000 Max Daily Volume (m ³): 4091 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 102 Version Start Date: 01/03/2005 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

0

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

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

5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

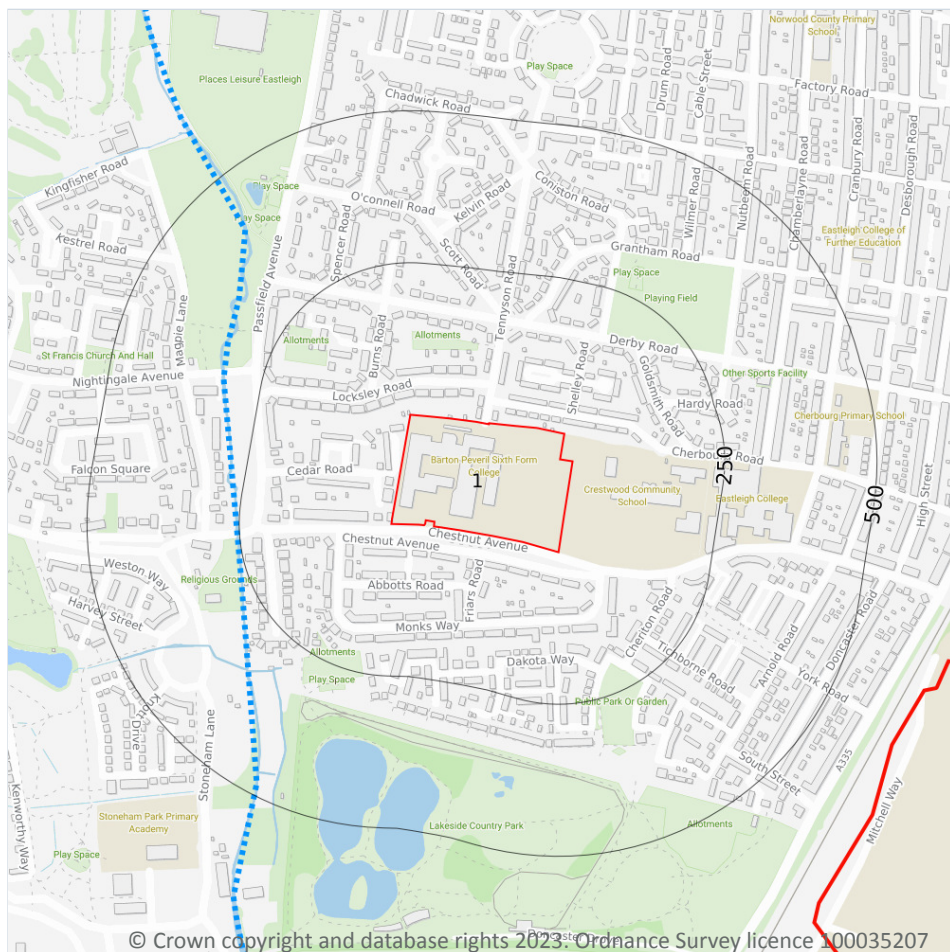
0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

0

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

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 45**

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 45**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Monks Brook	GB107042016310	Itchen	Test and Itchen

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 45**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
4	254m W	River	Monks Brook	GB107042016310	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site

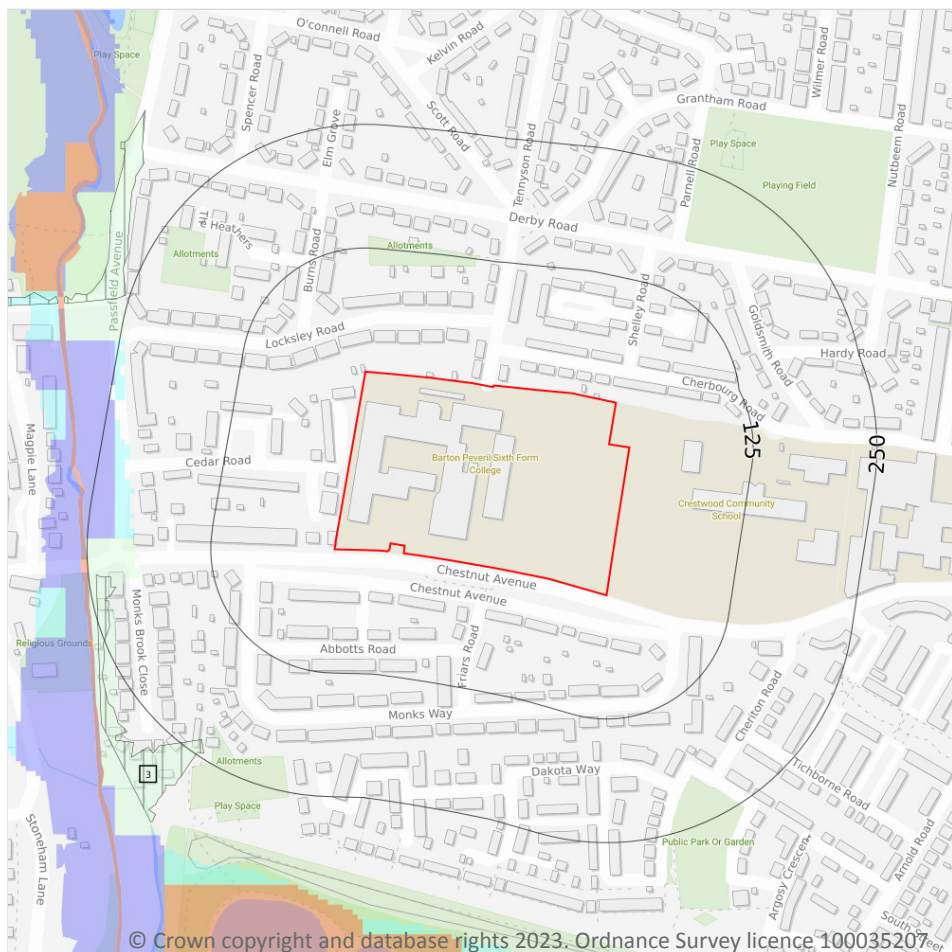
0

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

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



7 River and coastal flooding



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

7.1 Risk of flooding from rivers and the sea

Records within 50m

0

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

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



7.2 Historical Flood Events

Records within 250m

0

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

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

7.3 Flood Defences

Records within 250m

0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m

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 48**

ID	Location	
3	224m W	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

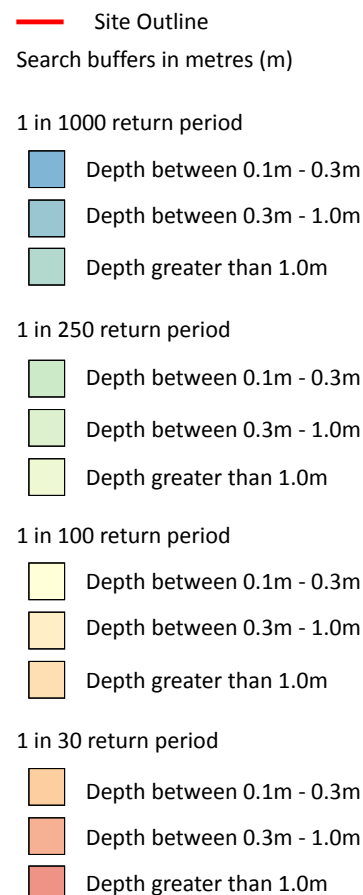
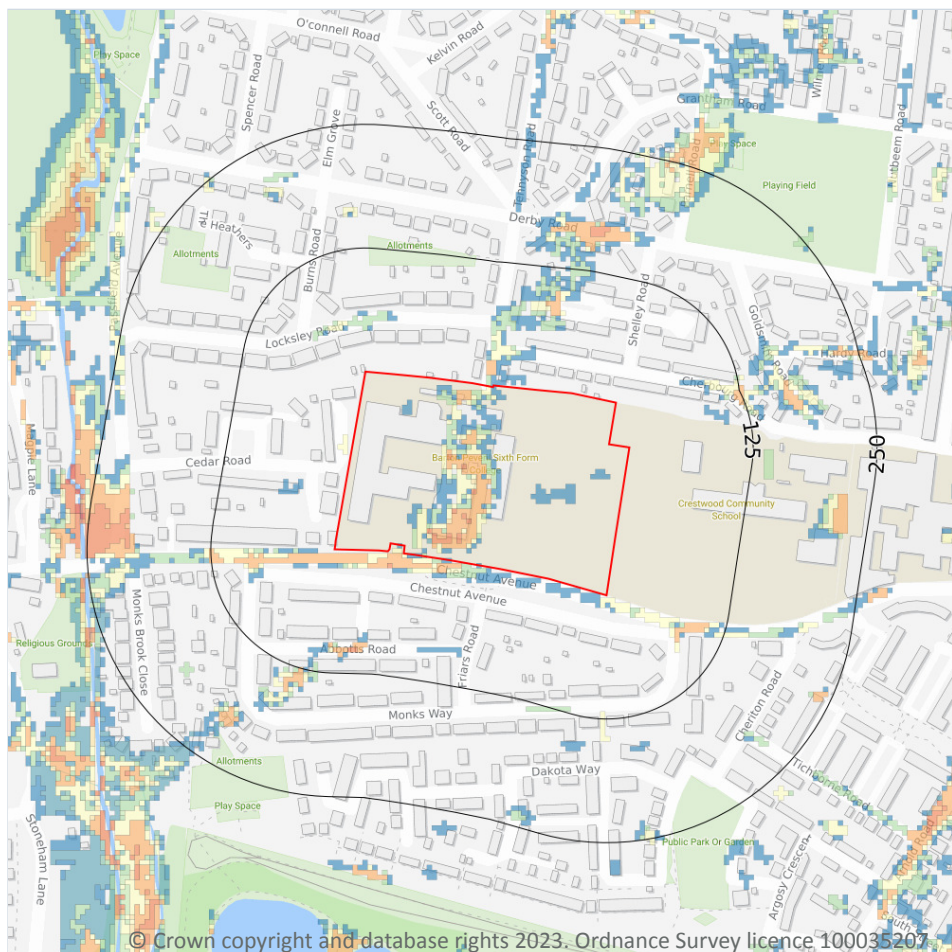
0

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, 0.3m - 1.0m

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 51**

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 0.3m and 1.0m

This data is sourced from Ambiantal Risk Analytics.

