

EAST COAST WASTE TRANSFER STATION STORAGE, HARFREYS ROAD, GREAT YARMOUTH, NR31 0LS

Order Details

Date: 23/02/2023
Your ref: East_Coast_Waste_Ltd_Combination
Our Ref: GS-9376583

Site Details

Location: 651884 305646
Area: 0.8 ha
Authority: [Great Yarmouth Borough Council](#)



Summary of findings

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Aerial image

p. 8

OS MasterMap site plan

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Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	<u>Historical industrial land uses</u>	1	0	8	52	-
17	1.2	<u>Historical tanks</u>	0	1	6	53	-
19	1.3	<u>Historical energy features</u>	0	0	1	24	-
21	1.4	Historical petrol stations	0	0	0	0	-
21	1.5	<u>Historical garages</u>	0	0	0	9	-
22	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
23	2.1	<u>Historical industrial land uses</u>	1	0	9	64	-
26	2.2	<u>Historical tanks</u>	0	2	6	86	-
30	2.3	<u>Historical energy features</u>	0	0	3	62	-
32	2.4	Historical petrol stations	0	0	0	0	-
33	2.5	<u>Historical garages</u>	0	0	0	13	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
34	3.1	Active or recent landfill	0	0	0	0	-
34	3.2	Historical landfill (BGS records)	0	0	0	0	-
35	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
35	3.4	<u>Historical landfill (EA/NRW records)</u>	0	0	0	1	-
35	3.5	<u>Historical waste sites</u>	0	1	3	0	-
37	3.6	<u>Licensed waste sites</u>	9	2	2	4	-
42	3.7	<u>Waste exemptions</u>	0	8	7	22	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
46	4.1	<u>Recent industrial land uses</u>	3	2	29	-	-
49	4.2	Current or recent petrol stations	0	0	0	0	-
49	4.3	Electricity cables	0	0	0	0	-
49	4.4	Gas pipelines	0	0	0	0	-
49	4.5	Sites determined as Contaminated Land	0	0	0	0	-



49	4.6	<u>Control of Major Accident Hazards (COMAH)</u>	0	0	0	1	-
50	4.7	Regulated explosive sites	0	0	0	0	-
50	4.8	Hazardous substance storage/usage	0	0	0	0	-
50	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
50	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	0	21	-
54	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	1	4	-
55	4.12	<u>Radioactive Substance Authorisations</u>	0	0	0	1	-
55	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	11	-
57	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
57	4.15	<u>Pollutant release to public sewer</u>	0	0	2	1	-
58	4.16	<u>List 1 Dangerous Substances</u>	0	0	1	0	-
58	4.17	<u>List 2 Dangerous Substances</u>	0	0	0	4	-
59	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	2	1	-
59	4.19	<u>Pollution inventory substances</u>	0	0	0	1	-
60	4.20	<u>Pollution inventory waste transfers</u>	0	0	0	1	-
72	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
73	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
74	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
75	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
76	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
76	5.5	Groundwater vulnerability- local information	None (within 0m)				
77	5.6	<u>Groundwater abstractions</u>	0	0	0	3	1
79	5.7	<u>Surface water abstractions</u>	0	0	0	0	1
79	5.8	Potable abstractions	0	0	0	0	0
79	5.9	Source Protection Zones	0	0	0	0	-
79	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
81	6.1	<u>Water Network (OS MasterMap)</u>	0	11	15	-	-



84	6.2	<u>Surface water features</u>	1	2	7	-	-
84	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
84	6.4	WFD Surface water bodies	0	0	0	-	-
85	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
86	7.1	<u>Risk of flooding from rivers and the sea</u>	Very Low (within 50m)				
87	7.2	Historical Flood Events	0	0	0	-	-
87	7.3	Flood Defences	0	0	0	-	-
87	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
87	7.5	Flood Storage Areas	0	0	0	-	-
88	7.6	<u>Flood Zone 2</u>	Identified (within 50m)				
89	7.7	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
90	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
92	9.1	<u>Groundwater flooding</u>	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
93	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
94	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
94	10.3	<u>Special Areas of Conservation (SAC)</u>	0	0	0	0	1
94	10.4	<u>Special Protection Areas (SPA)</u>	0	0	0	1	1
95	10.5	National Nature Reserves (NNR)	0	0	0	0	0
95	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
95	10.7	Designated Ancient Woodland	0	0	0	0	0
95	10.8	Biosphere Reserves	0	0	0	0	0
96	10.9	Forest Parks	0	0	0	0	0
96	10.10	Marine Conservation Zones	0	0	0	0	0
96	10.11	Green Belt	0	0	0	0	0
96	10.12	Proposed Ramsar sites	0	0	0	0	0



96	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
97	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
97	10.15	Nitrate Sensitive Areas	0	0	0	0	0
97	10.16	<u>Nitrate Vulnerable Zones</u>	1	0	0	1	0
98	10.17	<u>SSSI Impact Risk Zones</u>	2	-	-	-	-
100	10.18	SSSI Units	0	0	0	0	0

Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
101	11.1	World Heritage Sites	0	0	0	-	-
101	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
101	11.3	National Parks	0	0	0	-	-
101	11.4	Listed Buildings	0	0	0	-	-
102	11.5	Conservation Areas	0	0	0	-	-
102	11.6	Scheduled Ancient Monuments	0	0	0	-	-
102	11.7	Registered Parks and Gardens	0	0	0	-	-

Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
103	12.1	<u>Agricultural Land Classification</u>	Grade 3 (within 250m)				
104	12.2	<u>Open Access Land</u>	0	0	1	-	-
104	12.3	<u>Tree Felling Licences</u>	0	2	3	-	-
105	12.4	Environmental Stewardship Schemes	0	0	0	-	-
105	12.5	Countryside Stewardship Schemes	0	0	0	-	-

Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
106	13.1	<u>Priority Habitat Inventory</u>	0	0	1	-	-
107	13.2	Habitat Networks	0	0	0	-	-
107	13.3	<u>Open Mosaic Habitat</u>	1	0	0	-	-
107	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
108	14.1	<u>10k Availability</u>	Identified (within 500m)				
109	14.2	Artificial and made ground (10k)	0	0	0	0	-
110	14.3	Superficial geology (10k)	0	0	0	0	-



110	14.4	Landslip (10k)	0	0	0	0	-
111	14.5	Bedrock geology (10k)	0	0	0	0	-
111	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
112	15.1	<u>50k Availability</u>	Identified (within 500m)				
113	15.2	<u>Artificial and made ground (50k)</u>	1	0	0	0	-
114	15.3	<u>Artificial ground permeability (50k)</u>	1	0	-	-	-
115	15.4	<u>Superficial geology (50k)</u>	1	0	1	2	-
116	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
116	15.6	Landslip (50k)	0	0	0	0	-
116	15.7	Landslip permeability (50k)	None (within 50m)				
117	15.8	<u>Bedrock geology (50k)</u>	1	0	0	0	-
118	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
118	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
119	16.1	<u>BGS Boreholes</u>	4	4	44	-	-
Page	Section	Natural ground subsidence					
122	17.1	<u>Shrink swell clays</u>	Negligible (within 50m)				
123	17.2	<u>Running sands</u>	Very low (within 50m)				
124	17.3	<u>Compressible deposits</u>	High (within 50m)				
126	17.4	<u>Collapsible deposits</u>	Negligible (within 50m)				
127	17.5	<u>Landslides</u>	Very low (within 50m)				
128	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
130	18.1	Natural cavities	0	0	0	0	-
131	18.2	<u>BritPits</u>	0	0	0	1	-
131	18.3	<u>Surface ground workings</u>	0	0	1	-	-
131	18.4	Underground workings	0	0	0	0	0
132	18.5	Historical Mineral Planning Areas	0	0	0	0	-



132	18.6	Non-coal mining	0	0	0	0	0
132	18.7	Mining cavities	0	0	0	0	0
132	18.8	JPB mining areas	None (within 0m)				
132	18.9	Coal mining	None (within 0m)				
133	18.10	Brine areas	None (within 0m)				
133	18.11	Gypsum areas	None (within 0m)				
133	18.12	Tin mining	None (within 0m)				
133	18.13	Clay mining	None (within 0m)				

Page	Section	Radon					
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134 **19.1** **Radon** **Less than 1% (within 0m)**

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>136</u>	<u>20.1</u>	<u>BGS Estimated Background Soil Chemistry</u>	2	0	-	-	-
136	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
136	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
137	21.1	Underground railways (London)	0	0	0	-	-
137	21.2	Underground railways (Non-London)	0	0	0	-	-
138	21.3	Railway tunnels	0	0	0	-	-
<u>138</u>	<u>21.4</u>	<u>Historical railway and tunnel features</u>	0	1	4	-	-
138	21.5	Royal Mail tunnels	0	0	0	-	-
<u>139</u>	<u>21.6</u>	<u>Historical railways</u>	0	1	1	-	-
139	21.7	Railways	0	0	0	-	-
139	21.8	Crossrail 1	0	0	0	0	-
139	21.9	Crossrail 2	0	0	0	0	-
140	21.10	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 11/04/2020

Site Area: 0.8ha



Recent site history - 2017 aerial photograph



Capture Date: 28/08/2017

Site Area: 0.8ha



Recent site history - 2010 aerial photograph

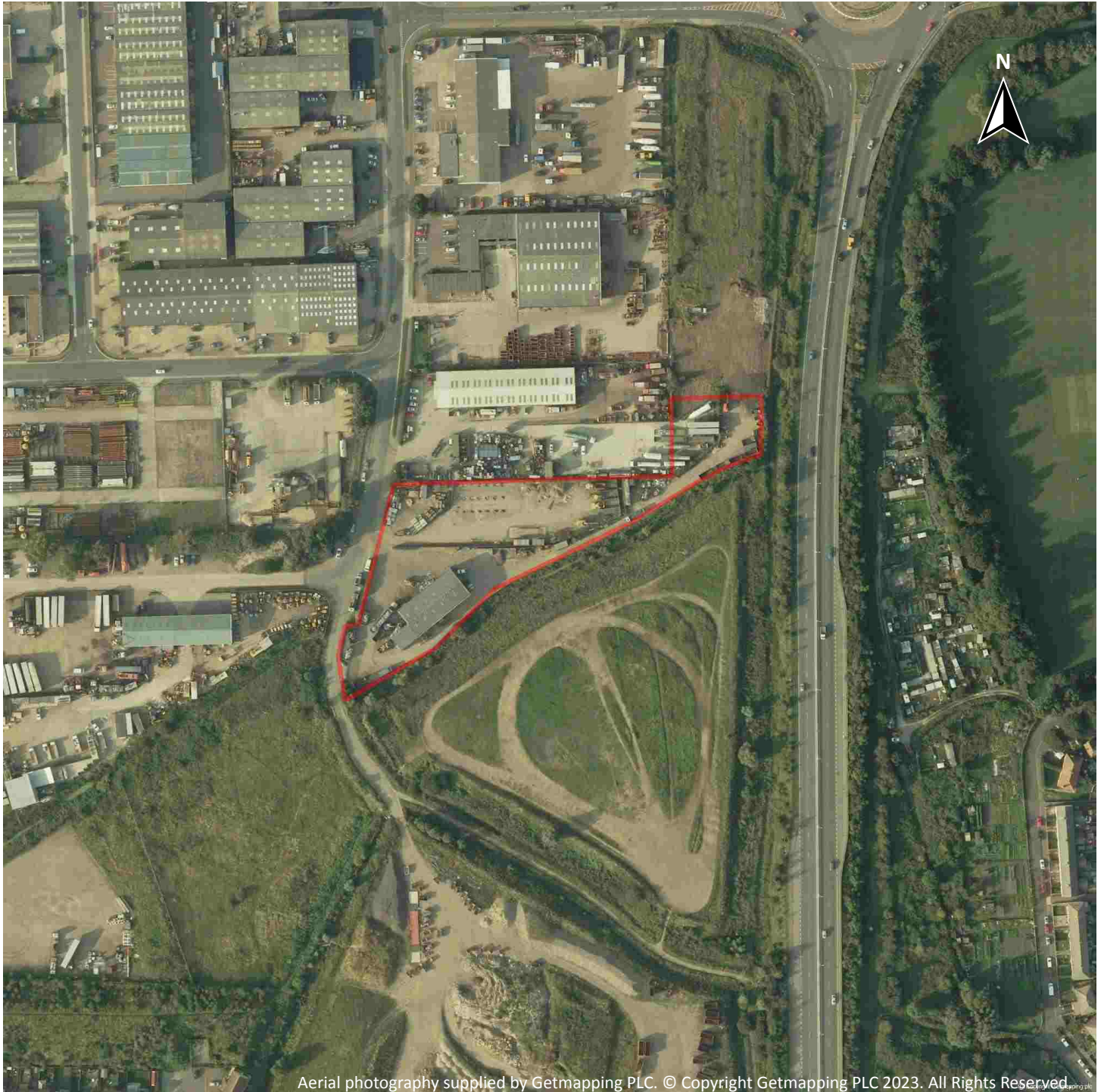


Capture Date: 23/06/2010

Site Area: 0.8ha



Recent site history - 2006 aerial photograph



Capture Date: 11/09/2006

Site Area: 0.8ha



Recent site history - 1999 aerial photograph

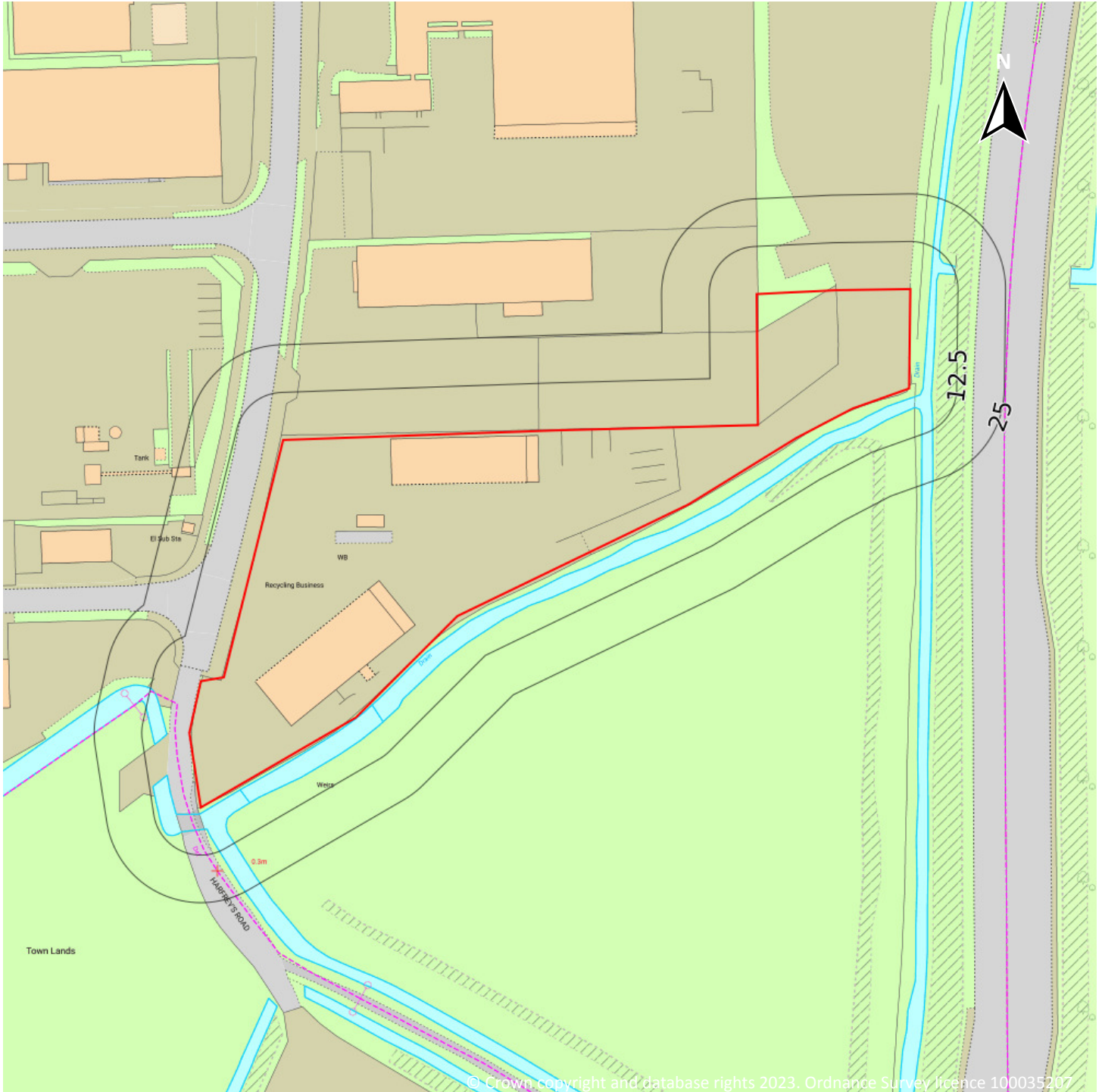


Capture Date: 25/06/1999

Site Area: 0.8ha



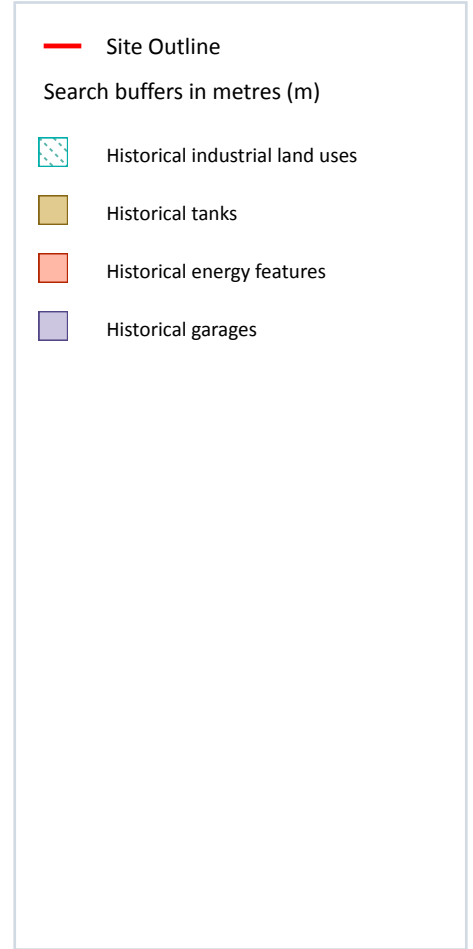
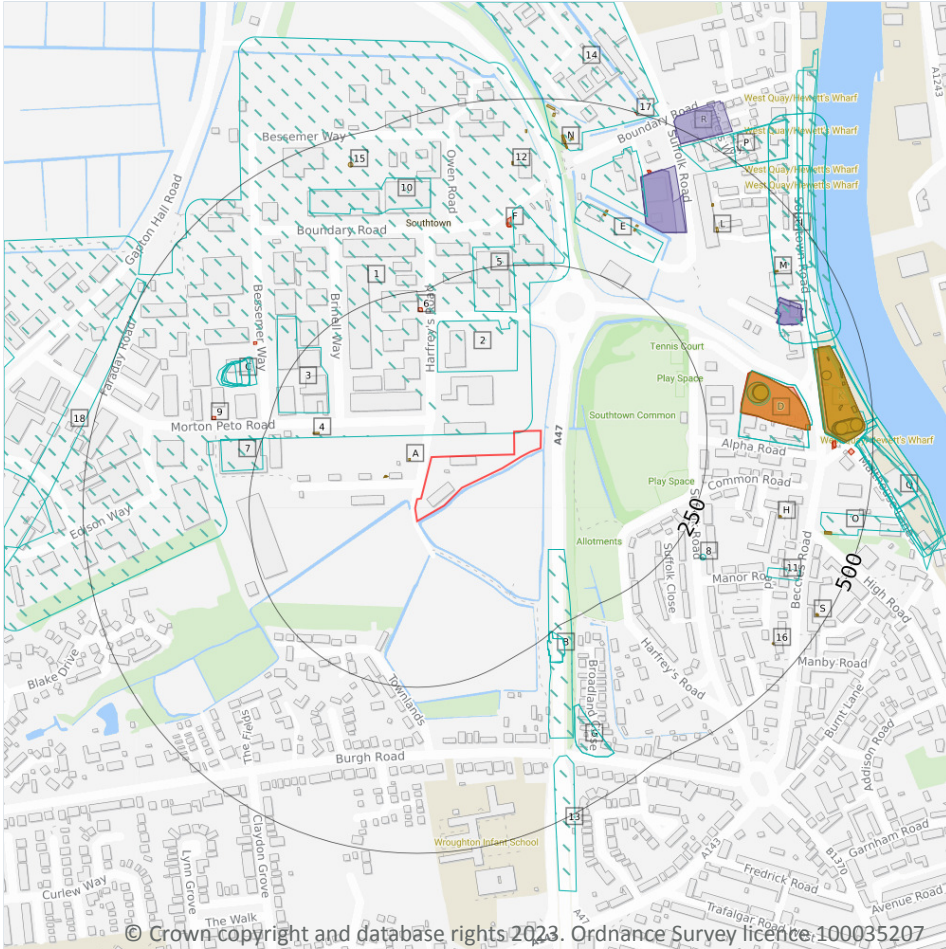
OS MasterMap site plan



Site Area: 0.8ha



1 Past land use



1.1 Historical industrial land uses

Records within 500m **61**

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

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

ID	Location	Land use	Dates present	Group ID
1	On site	Industrial Estate	1988	2306650



ID	Location	Land use	Dates present	Group ID
2	92m NE	Unspecified Works	1978	2298834
B	141m SE	Railway Sidings	1938	2302115
3	168m NW	Unspecified Warehouses	1978	2298428
5	180m N	Unspecified Factory	1978	2299373
7	237m W	Unspecified Warehouse	1978	2297667
B	247m SE	Railway Station	1938	2314508
B	248m SE	Railway Station	1904	2304375
B	248m SE	Railway Station	1946	2309915
C	285m NW	Unspecified Pit	1901	2310364
8	290m E	Corn Windmill	1901	2298425
C	294m W	Unspecified Pit	1884	2306277
C	297m W	Unspecified Pit	1946	2304451
C	297m W	Unspecified Pit	1904	2313788
D	297m E	Unspecified Commercial/Industrial	1978	2300507
D	297m E	Gas Holder Station	1988	2301655
E	300m NE	Sawmills	1904	2300930
C	306m W	Unspecified Heap	1938	2302884
C	311m W	Unspecified Pit	1952	2314226
D	315m E	Unspecified Tank	1938	2310693
D	317m E	Gasometer	1904	2299872
D	320m E	Unspecified Tank	1952	2311781
D	322m E	Unspecified Tank	1978 - 1988	2315465
E	360m NE	Unspecified Depot	1978 - 1988	2305119
10	360m N	Unspecified Warehouses	1978	2298430
G	360m SE	Unspecified Pit	1904	2309587
G	360m SE	Unspecified Pit	1946	2309744
11	387m E	Corn Mill	1884	2300668
I	389m NE	Quay	1946	2308295



ID	Location	Land use	Dates present	Group ID
I	389m NE	Quay	1904	2311203
13	414m S	Unspecified Heap	1978 - 1988	2315279
K	422m E	Unspecified Commercial/Industrial	1952	2302814
K	424m E	Gas Works	1884	2312263
K	424m E	Gas Works	1901	2309680
14	424m N	Unspecified Depot	1978	2307837
K	425m E	Gas Works	1904	2310779
K	425m E	Unspecified Commercial/Industrial	1938 - 1946	2310217
I	427m E	Quay	1952	2310408
K	432m E	Quay	1978 - 1988	2302981
O	434m E	Malthouse	1978	2299647
K	436m E	Unspecified Tanks	1938 - 1946	2305995
K	438m E	Gasometer	1904	2312599
I	439m E	Quay	1978 - 1988	2307852
K	440m E	Gasometers	1901	2300544
K	441m E	Unspecified Tank	1884 - 1952	2308720
K	446m E	Quay	1904	2307274
K	446m E	Quay	1946	2309648
K	447m E	Quay	1938	2303134
P	463m NE	Iron Works	1901	2307497
K	463m E	Gasometer	1884	2308662
K	464m E	Unspecified Tank	1952	2298713
I	464m NE	Quay	1938	2304916
Q	473m E	Quay	1938	2305853
Q	474m E	Malthouse	1946	2312818
Q	474m E	Malthouses	1901	2311666
Q	474m E	Malthouse	1904	2315672
Q	477m E	Malthouses	1884	2312948



ID	Location	Land use	Dates present	Group ID
Q	482m E	Unspecified Works	1988	2298838
Q	482m E	Quay	1978	2308199
P	494m NE	Iron Works	1884	2309138
18	498m NW	Cuttings	1901 - 1904	2313141

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	60
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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
A	30m W	Unspecified Tank	1985 - 1990	413354
A	56m W	Unspecified Tank	1955	413391
A	56m W	Unspecified Tank	1964	413401
A	56m W	Unspecified Tank	1978	414790
A	58m W	Unspecified Tank	1990	414164
A	58m W	Unspecified Tank	1985	414618
4	173m W	Unspecified Tank	1990	412708
D	303m E	Gas Holder Station	1986	413202
D	316m E	Unspecified Tank	1927 - 1958	414267
D	324m E	Gasholder	1949 - 1968	413709
D	324m E	Gasholder	1949 - 1976	414299
D	325m E	Gas Holder	1986	413207
E	332m NE	Unspecified Tank	1949 - 1963	413693
E	338m NE	Unspecified Tank	1963	414279



ID	Location	Land use	Dates present	Group ID
E	338m NE	Unspecified Tank	1949	414935
E	338m NE	Unspecified Tank	1951	413461
E	338m NE	Unspecified Tank	1949	413814
E	339m NE	Unspecified Tank	1951	412769
E	344m NE	Unspecified Tank	1949 - 1963	414070
H	373m E	Unspecified Tank	1949	414000
H	373m E	Unspecified Tank	1958	414367
H	374m E	Unspecified Tank	1949	413286
L	399m NE	Tanks	1975 - 1996	413316
12	402m N	Unspecified Tank	1980	412635
K	423m E	Gas Works	1883 - 1887	413885
L	425m NE	Unspecified Tank	1975 - 1996	414295
M	426m NE	Unspecified Tank	1996	413973
N	426m N	Tanks	1996	413160
N	427m N	Unspecified Tank	1990	413362
M	427m NE	Unspecified Tank	1976	413682
M	428m NE	Unspecified Tank	1986	413359
M	428m NE	Unspecified Tank	1990	414856
K	429m E	Gas Works	1949 - 1968	413667
K	429m E	Gas Works	1949	413899
K	431m E	Unspecified Tank	1990 - 1996	413262
N	435m N	Unspecified Tank	1990	413429
K	438m E	Tanks	1927 - 1958	413652
K	438m E	Gasometers	1887	414528
K	441m E	Gasometers	1883 - 1968	414035
N	441m N	Unspecified Tank	1975 - 1986	414494
K	443m E	Gasometer	1949	412859
K	443m E	Gasometers	1967	414666



ID	Location	Land use	Dates present	Group ID
K	444m E	Unspecified Tank	1967 - 1968	413643
O	445m E	Unspecified Tank	1968	413803
O	445m E	Unspecified Tank	1967 - 1976	414729
N	449m N	Unspecified Tank	1978	412636
K	450m E	Tanks	1949	413214
15	453m N	Unspecified Tank	1980 - 1985	414976
16	456m SE	Unspecified Tank	1927	412768
K	459m E	Unspecified Tank	1949	414258
K	459m E	Unspecified Tank	1968	414881
K	459m E	Unspecified Tank	1967 - 1968	414844
K	459m E	Unspecified Tank	1949	414478
K	460m E	Unspecified Tank	1967	413851
K	466m E	Gasometer	1949	412860
K	469m E	Unspecified Tank	1967 - 1968	414942
N	473m N	Unspecified Tank	1975	412637
N	483m N	Unspecified Tank	1975	412638
S	484m E	Unspecified Tank	1927	414277
S	485m E	Unspecified Tank	1905	414640

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

25

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

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



ID	Location	Land use	Dates present	Group ID
6	219m N	Electricity Substation	1978 - 1990	294335
D	302m E	Gas Distribution Station	1976 - 1990	295246
D	302m E	Gas Distribution Station	1996	293927
D	303m E	Gas Holder Station	1986	293494
F	308m N	Electricity Substation	1978	294601
F	309m N	Electricity Substation	1978 - 1985	295162
C	313m NW	Electricity Substation	1985 - 1990	294179
D	324m E	Gasholder	1949 - 1968	293865
D	324m E	Gasholder	1949 - 1976	295442
D	325m E	Gas Holder	1986	293492
9	326m W	Electricity Substation	1978 - 1990	294722
K	398m E	Electricity Substation	1967 - 1996	295041
E	419m NE	Electricity Substation	1986 - 1990	295636
E	420m NE	Electricity Substation	1996	294042
K	423m E	Gas Works	1883 - 1887	295789
K	429m E	Gas Works	1949 - 1968	295767
K	429m E	Electricity Substation	1990 - 1996	294847
K	438m E	Gasometers	1887 - 1967	294610
K	439m E	Electricity Substation	1996	294338
K	440m E	Electricity Substation	1949 - 1990	293801
K	441m E	Gasometers	1883 - 1968	294263
K	443m E	Gasometer	1949	293547
K	463m E	Electricity Substation	1967 - 1986	295220
K	466m E	Gasometer	1949	293548
17	497m NE	Electricity Substation	1968 - 1996	294583

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

9

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

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

ID	Location	Land use	Dates present	Group ID
E	349m NE	Garage	1996	86627
E	350m NE	Garage	1990	86907
E	350m NE	Garage	1986	86745
J	390m NE	Garage	1990	86688
J	391m NE	Garage	1967 - 1976	86965
J	391m NE	Garage	1996	86589
J	392m NE	Garage	1968 - 1986	87082
R	480m NE	Garage	1968	87167
R	480m NE	Garage	1975	86656

This data is sourced from Ordnance Survey / Groundsure.



1.6 Historical military land

Records within 500m

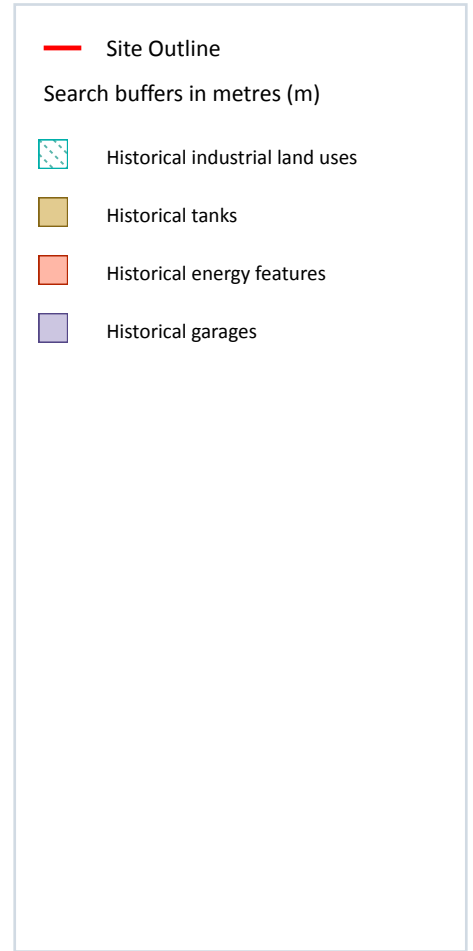
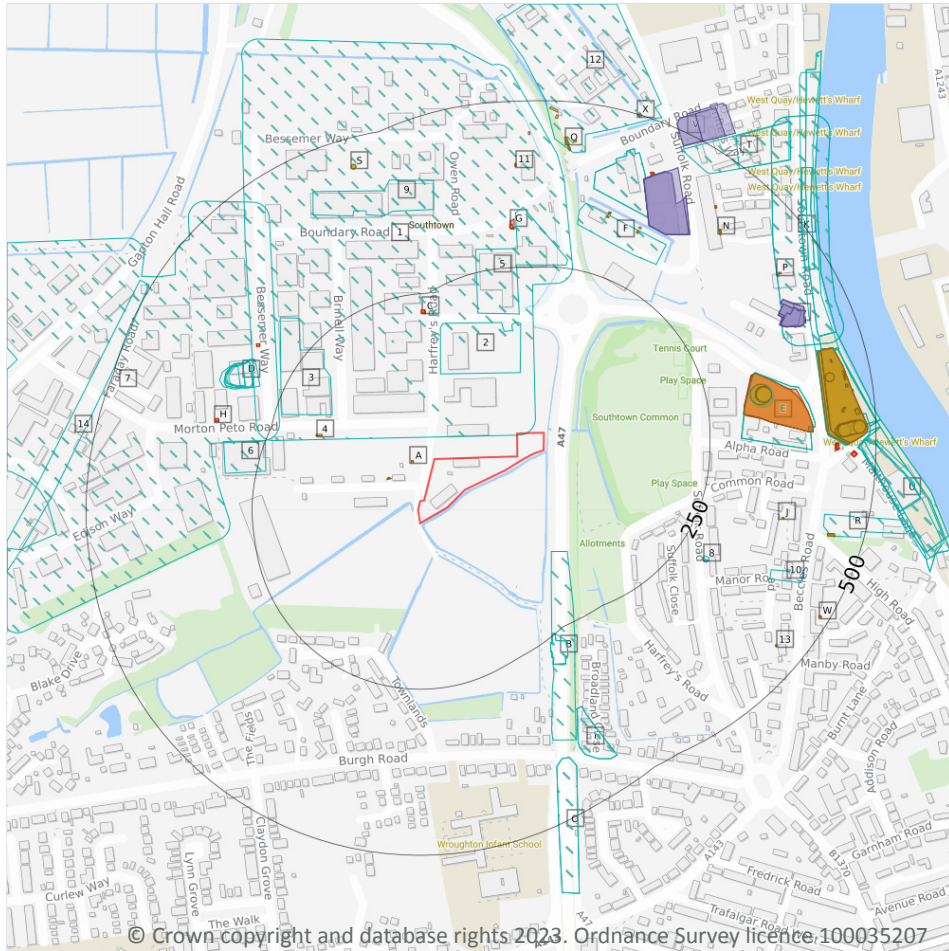
0

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

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



2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m

74

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 ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 23**

ID	Location	Land Use	Date	Group ID
1	On site	Industrial Estate	1988	2306650
2	92m NE	Unspecified Works	1978	2298834
B	141m SE	Railway Sidings	1938	2302115

ID	Location	Land Use	Date	Group ID
3	168m NW	Unspecified Warehouses	1978	2298428
5	180m N	Unspecified Factory	1978	2299373
6	237m W	Unspecified Warehouse	1978	2297667
7	239m W	Industrial Estate	1988	2306650
B	247m SE	Railway Station	1938	2314508
B	248m SE	Railway Station	1946	2309915
B	248m SE	Railway Station	1904	2304375
D	285m NW	Unspecified Pit	1901	2310364
8	290m E	Corn Windmill	1901	2298425
D	294m W	Unspecified Pit	1884	2306277
D	297m W	Unspecified Pit	1946	2304451
D	297m W	Unspecified Pit	1904	2313788
E	297m E	Gas Holder Station	1988	2301655
E	297m E	Unspecified Commercial/Industrial	1978	2300507
F	300m NE	Sawmills	1904	2300930
D	306m W	Unspecified Heap	1938	2302884
D	306m W	Unspecified Heap	1938	2302884
D	311m W	Unspecified Pit	1952	2314226
E	315m E	Unspecified Tank	1938	2310693
E	317m E	Gasometer	1904	2299872
E	320m E	Unspecified Tank	1952	2311781
E	322m E	Unspecified Tank	1978	2315465
E	322m E	Unspecified Tank	1988	2315465
F	360m NE	Unspecified Depot	1978	2305119
F	360m NE	Unspecified Depot	1988	2305119
9	360m N	Unspecified Warehouses	1978	2298430
I	360m SE	Unspecified Pit	1946	2309744
I	360m SE	Unspecified Pit	1904	2309587



ID	Location	Land Use	Date	Group ID
10	387m E	Corn Mill	1884	2300668
K	389m NE	Quay	1946	2308295
K	389m NE	Quay	1904	2311203
O	414m S	Unspecified Heap	1978	2315279
O	414m S	Unspecified Heap	1988	2315279
M	422m E	Unspecified Commercial/Industrial	1952	2302814
M	424m E	Gas Works	1884	2312263
M	424m E	Gas Works	1901	2309680
12	424m N	Unspecified Depot	1978	2307837
M	425m E	Unspecified Commercial/Industrial	1946	2310217
M	425m E	Gas Works	1904	2310779
M	425m E	Unspecified Commercial/Industrial	1938	2310217
K	427m E	Quay	1952	2310408
M	432m E	Quay	1978	2302981
M	432m E	Quay	1988	2302981
R	434m E	Malthouse	1978	2299647
M	436m E	Unspecified Tanks	1938	2305995
M	438m E	Unspecified Tanks	1946	2305995
M	438m E	Gasometer	1904	2312599
K	439m E	Quay	1978	2307852
K	439m E	Quay	1988	2307852
M	440m E	Gasometers	1901	2300544
M	441m E	Unspecified Tank	1884	2308720
M	442m E	Unspecified Tank	1952	2308720
M	446m E	Quay	1946	2309648
M	446m E	Quay	1904	2307274
M	447m E	Quay	1938	2303134
M	447m E	Quay	1938	2303134



ID	Location	Land Use	Date	Group ID
T	463m NE	Iron Works	1901	2307497
M	463m E	Gasometer	1884	2308662
M	464m E	Unspecified Tank	1952	2298713
K	464m NE	Quay	1938	2304916
K	464m NE	Quay	1938	2304916
U	473m E	Quay	1938	2305853
U	473m E	Quay	1938	2305853
U	474m E	Malthouse	1946	2312818
U	474m E	Malthouses	1901	2311666
U	474m E	Malthouse	1904	2315672
U	477m E	Malthouses	1884	2312948
U	482m E	Quay	1978	2308199
U	482m E	Unspecified Works	1988	2298838
T	494m NE	Iron Works	1884	2309138
14	498m NW	Cuttings	1901	2313141

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

94

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

Features are displayed on the Past land use - un-grouped map on **page 23**

ID	Location	Land Use	Date	Group ID
A	30m W	Unspecified Tank	1985	413354
A	30m W	Unspecified Tank	1990	413354
A	56m W	Unspecified Tank	1964	413401
A	56m W	Unspecified Tank	1955	413391
A	56m W	Unspecified Tank	1978	414790



ID	Location	Land Use	Date	Group ID
A	58m W	Unspecified Tank	1985	414618
A	58m W	Unspecified Tank	1990	414164
4	173m W	Unspecified Tank	1990	412708
E	303m E	Gas Holder Station	1986	413202
E	316m E	Unspecified Tank	1927	414267
E	324m E	Unspecified Tank	1958	414267
E	324m E	Gasholder	1968	413709
E	324m E	Gasholder	1949	413709
E	324m E	Gasholder	1976	414299
E	324m E	Gasholder	1949	414299
E	324m E	Gasholder	1967	414299
E	325m E	Gas Holder	1986	413207
F	332m NE	Unspecified Tank	1963	413693
F	332m NE	Unspecified Tank	1949	413693
F	332m NE	Unspecified Tank	1949	413693
F	338m NE	Unspecified Tank	1963	414279
F	338m NE	Unspecified Tank	1949	414935
F	338m NE	Unspecified Tank	1951	413461
F	338m NE	Unspecified Tank	1949	413814
F	339m NE	Unspecified Tank	1951	412769
F	344m NE	Unspecified Tank	1963	414070
F	344m NE	Unspecified Tank	1949	414070
F	344m NE	Unspecified Tank	1951	414070
F	344m NE	Unspecified Tank	1949	414070
J	373m E	Unspecified Tank	1958	414367
J	373m E	Unspecified Tank	1949	414000
J	374m E	Unspecified Tank	1949	413286
N	399m NE	Tanks	1996	413316



ID	Location	Land Use	Date	Group ID
N	400m NE	Tanks	1975	413316
N	400m NE	Tanks	1986	413316
N	400m NE	Tanks	1990	413316
N	400m NE	Tanks	1990	413316
11	402m N	Unspecified Tank	1980	412635
M	423m E	Gas Works	1887	413885
N	425m NE	Unspecified Tank	1996	414295
N	425m NE	Unspecified Tank	1975	414295
M	426m E	Gas Works	1883	413885
N	426m NE	Unspecified Tank	1986	414295
N	426m NE	Unspecified Tank	1990	414295
N	426m NE	Unspecified Tank	1990	414295
P	426m NE	Unspecified Tank	1996	413973
Q	426m N	Tanks	1996	413160
Q	427m N	Unspecified Tank	1990	413362
Q	427m N	Unspecified Tank	1990	413362
P	427m NE	Unspecified Tank	1976	413682
P	428m NE	Unspecified Tank	1986	413359
P	428m NE	Unspecified Tank	1990	414856
M	429m E	Gas Works	1968	413667
M	429m E	Gas Works	1949	413667
M	429m E	Gas Works	1949	413899
M	429m E	Gas Works	1967	413667
M	431m E	Unspecified Tank	1990	413262
M	432m E	Unspecified Tank	1996	413262
Q	435m N	Unspecified Tank	1990	413429
Q	435m N	Unspecified Tank	1990	413429
M	438m E	Gasometers	1887	414528



ID	Location	Land Use	Date	Group ID
M	438m E	Tanks	1927	413652
M	441m E	Gasometers	1883	414035
Q	441m N	Unspecified Tank	1986	414494
Q	441m N	Unspecified Tank	1975	414494
M	443m E	Tanks	1958	413652
M	443m E	Gasometers	1968	414035
M	443m E	Gasometers	1949	414035
M	443m E	Gasometer	1949	412859
M	443m E	Gasometers	1967	414666
M	444m E	Unspecified Tank	1968	413643
M	445m E	Unspecified Tank	1967	413643
R	445m E	Unspecified Tank	1968	413803
R	445m E	Unspecified Tank	1976	414729
R	445m E	Unspecified Tank	1967	414729
Q	449m N	Unspecified Tank	1978	412636
M	450m E	Tanks	1949	413214
M	450m E	Tanks	1949	413214
S	453m N	Unspecified Tank	1985	414976
S	453m N	Unspecified Tank	1980	414976
13	456m SE	Unspecified Tank	1927	412768
M	459m E	Unspecified Tank	1949	414258
M	459m E	Unspecified Tank	1968	414881
M	459m E	Unspecified Tank	1968	414844
M	459m E	Unspecified Tank	1949	414478
M	460m E	Unspecified Tank	1967	414844
M	460m E	Unspecified Tank	1967	413851
M	466m E	Gasometer	1949	412860
M	469m E	Unspecified Tank	1968	414942



ID	Location	Land Use	Date	Group ID
M	469m E	Unspecified Tank	1967	414942
Q	473m N	Unspecified Tank	1975	412637
Q	483m N	Unspecified Tank	1975	412638
W	484m E	Unspecified Tank	1927	414277
W	485m E	Unspecified Tank	1905	414640

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

65

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

Features are displayed on the Past land use - un-grouped map on **page 23**

ID	Location	Land Use	Date	Group ID
C	219m N	Electricity Substation	1978	294335
C	220m N	Electricity Substation	1985	294335
C	220m N	Electricity Substation	1990	294335
E	302m E	Gas Distribution Station	1976	295246
E	302m E	Gas Distribution Station	1996	293927
E	303m E	Gas Holder Station	1986	293494
E	303m E	Gas Distribution Station	1990	295246
G	308m N	Electricity Substation	1978	294601
G	309m N	Electricity Substation	1978	295162
G	309m N	Electricity Substation	1985	295162
G	309m N	Electricity Substation	1980	295162
D	313m NW	Electricity Substation	1985	294179
D	313m NW	Electricity Substation	1990	294179
E	324m E	Gasholder	1968	293865
E	324m E	Gasholder	1949	293865



ID	Location	Land Use	Date	Group ID
E	324m E	Gasholder	1976	295442
E	324m E	Gasholder	1949	295442
E	324m E	Gasholder	1967	295442
E	325m E	Gas Holder	1986	293492
H	326m W	Electricity Substation	1985	294722
H	326m W	Electricity Substation	1990	294722
H	327m W	Electricity Substation	1978	294722
M	398m E	Electricity Substation	1968	295041
M	399m E	Electricity Substation	1996	295041
M	399m E	Electricity Substation	1976	295041
M	399m E	Electricity Substation	1967	295041
M	399m E	Electricity Substation	1986	295041
M	399m E	Electricity Substation	1990	295041
F	419m NE	Electricity Substation	1986	295636
F	419m NE	Electricity Substation	1990	295636
F	419m NE	Electricity Substation	1990	295636
F	420m NE	Electricity Substation	1996	294042
M	423m E	Gas Works	1887	295789
M	426m E	Gas Works	1883	295789
M	429m E	Gas Works	1968	295767
M	429m E	Gas Works	1949	295767
M	429m E	Electricity Substation	1996	294847
M	429m E	Electricity Substation	1990	294847
M	429m E	Gas Works	1949	295767
M	429m E	Gas Works	1967	295767
M	438m E	Gasometers	1887	294610
M	439m E	Electricity Substation	1996	294338
M	440m E	Electricity Substation	1968	293801



ID	Location	Land Use	Date	Group ID
M	440m E	Electricity Substation	1976	293801
M	440m E	Electricity Substation	1949	293801
M	440m E	Electricity Substation	1967	293801
M	440m E	Electricity Substation	1949	293801
M	441m E	Gasometers	1883	294263
M	441m E	Electricity Substation	1986	293801
M	441m E	Electricity Substation	1990	293801
M	443m E	Gasometers	1968	294263
M	443m E	Gasometers	1949	294263
M	443m E	Gasometer	1949	293547
M	443m E	Gasometers	1967	294610
M	463m E	Electricity Substation	1968	295220
M	463m E	Electricity Substation	1986	295220
M	464m E	Electricity Substation	1976	295220
M	464m E	Electricity Substation	1967	295220
M	466m E	Gasometer	1949	293548
X	497m NE	Electricity Substation	1996	294583
X	498m NE	Electricity Substation	1986	294583
X	498m NE	Electricity Substation	1990	294583
X	498m NE	Electricity Substation	1990	294583
X	498m NE	Electricity Substation	1975	294583
X	498m NE	Electricity Substation	1968	294583

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

13

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

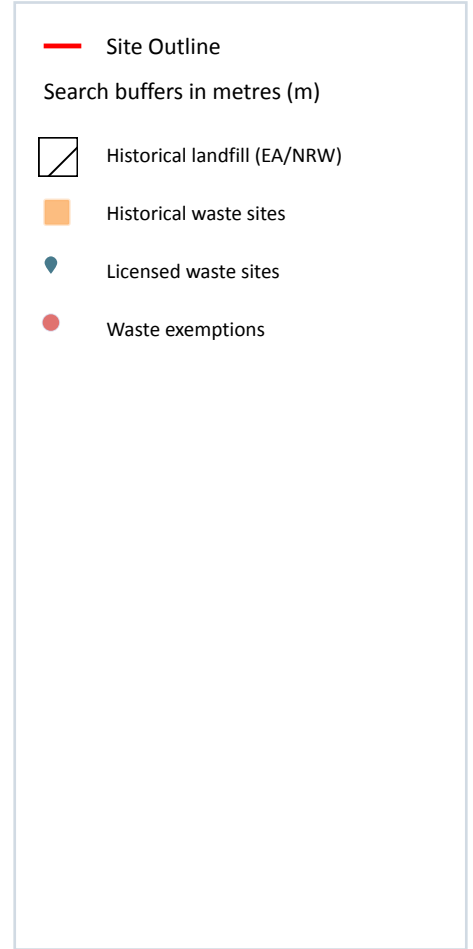
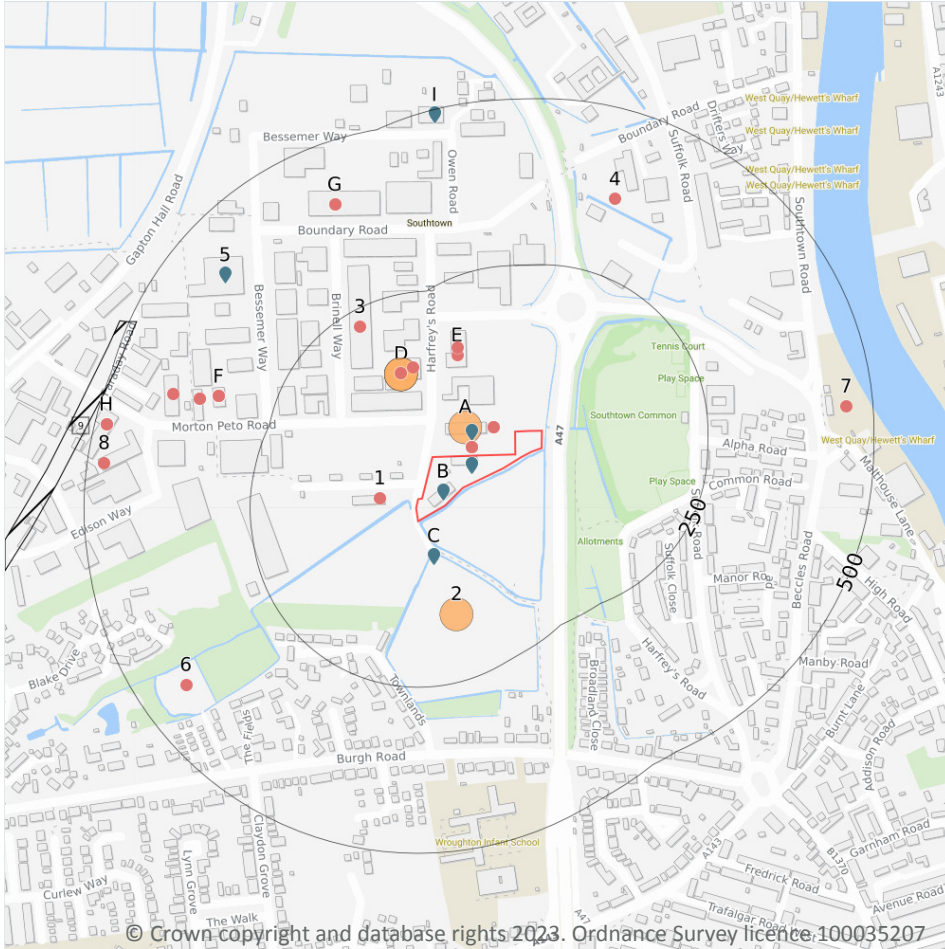
Features are displayed on the Past land use - un-grouped map on **page 23**

ID	Location	Land Use	Date	Group ID
F	349m NE	Garage	1996	86627
F	350m NE	Garage	1990	86907
F	350m NE	Garage	1990	86907
F	350m NE	Garage	1986	86745
L	390m NE	Garage	1990	86688
L	391m NE	Garage	1976	86965
L	391m NE	Garage	1967	86965
L	391m NE	Garage	1996	86589
L	392m NE	Garage	1968	87082
L	392m NE	Garage	1986	87082
V	480m NE	Garage	1968	87167
V	480m NE	Garage	1975	86656
V	499m NE	Garage	1968	87167

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

1

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

Features are displayed on the Waste and landfill map on **page 34**

ID	Location	Details		
9	489m NW	Site Address: Gapton Hall Site, Between Harfeys Road and Burgh Road, Great Yarmouth Licence Holder Address: -	Waste Licence: - Site Reference: WD 709a Waste Type: Inert, Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: County Council Licence Holder: Great Yarmouth Council First Recorded 30/06/1973 Last Recorded: 31/12/1974

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

3.5 Historical waste sites

Records within 500m

4

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

Features are displayed on the Waste and landfill map on **page 34**

ID	Location	Address	Further Details	Date
A	18m N	Site Address: East Coast Waste, Harfreys Road, Harfreys Industrial Estate, GREAT YARMOUTH, Norfolk, NR31 0LS	Type of Site: Waste Recycling Centre Planning application reference: 06/07/0901/F Description: Scheme comprises raise roof of waste recycling centre. An application (ref: 06/07/0901/F) for detailed planning permission was granted by Great Yarmouth B.C. Planning decision obtained Data source: Historic Planning Application Data Type: Point	-
D	108m NW	Site Address: Waste Recycling and Transfer, Harfreys Road, Harfreys Industrial Estate, Great Yarmouth, Norfolk, NR31 0LS	Type of Site: Waste Transfer (extension) Planning application reference: 06/17/0421/F Description: Scheme comprises installation of additional portable cabin (above one) with stairs to form two storey structure, extensions to concrete hardstanding (part retrospective). Data source: Historic Planning Application Data Type: Point	03/10/2017
D	108m NW	Site Address: Waste Recycling and Transfer S, Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS	Type of Site: Portable Waste Recycling Cabin (Extension) Planning application reference: 06/17/0421/SU Description: Scheme comprises installation of additional portable cabin (above one) with stairs to form two storey structure, extensions to concrete hardstanding (part retrospective). Data source: Historic Planning Application Data Type: Point	03/10/2017
2	126m S	Site Address: Harfreys Road, Industrial Site, GREAT YARMOUTH, Norfolk, NR30	Type of Site: Waste Transfer Station Planning application reference: 98/0011 Description: Improvements to works included 4 bulk storage tanks 2 x 5,000 gallons and 1 x 10,000 gallons and 1 x 12,000 gallons. Relocation of canopy tent and re-concreting of part of the yard with a new drainage system. Improvements to works included 4 bulk storage tanks 2 x 5,000 gallons and 1 x 10,000 gallons and 1 x 12,000 gallons. Relocation of canopy tent and re-concreting of part of the yard with a new drainage system. NEW INFORMATION: Detailed plans approved by Norfolk County Council on the 3rd March 1998. An application (ref: 98/0011) for Detailed Planning permission was granted by Great Yarmouth B.C. on 3rd March 1998. Data source: Historic Planning Application Data Type: Point	01/05/1998

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



3.6 Licensed waste sites

Records within 500m

17

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

Features are displayed on the Waste and landfill map on **page 34**

ID	Location	Details		
A	On site	Site Name: Folkes Plant And Aggregate Site Address: Folkes Plant And Aggregate, Harfrey's Road, Harfrey's Industrial Est, Great Yarmouth, Norfolk, NR31 0LS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FOL001 EPR reference: EA/EPR/FP3394NJ/A001 Operator: Folkes Plant & Aggregate Ltd Waste Management licence No: 71417 Annual Tonnage: 24999	Issue Date: 13/07/2005 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	On site	Site Name: Folkes Plant And Aggregate Site Address: Harfrey's Road, Harfrey's Industrial Est, Great Yarmouth, Norfolk, NR31 0LS Correspondence Address: W. A. S. Ltd, P O Box 151, Lowestoft, Suffolk, NR32 3ZQ	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FOL001 EPR reference: - Operator: Folkes Plant & Aggregate Limited Waste Management licence No: 71417 Annual Tonnage: 24999	Issue Date: 13/07/2005 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	On site	Site Name: East Coast Hafreys Transfer Station Site Address: Land Off Harfreys Road, Harfreys Indus Est, Great Yarmouth, Norfolk, NR31 0LS Correspondence Address: -	Type of Site: 75kte HCl Waste TS + treatment Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ECW001 EPR reference: EA/EPR/GB3009GG/V002 Operator: East Coast Waste Limited Waste Management licence No: 71417 Annual Tonnage: 74999	Issue Date: 13/07/2005 Effective Date: 23/04/2018 Modified: 19/06/2018 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
A	On site	Site Name: Folkes Transfer Station Site Address: Land Off Harfreys Road, Harfreys Indus Est, Great Yarmouth, Norfolk, NR31 9PY Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FOL001 EPR reference: EA/EPR/FP3394NJ/V002 Operator: Folkes Plant & Aggregates Limited Waste Management licence No: 71417 Annual Tonnage: 24999	Issue Date: 13/07/2005 Effective Date: - Modified: 22/10/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
A	On site	Site Name: East Coast Hafreys Transfer Station Site Address: Land Off Harfreys Road, Harfreys Indus Est, Great Yarmouth, Norfolk, NR31 0LS Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ECW001 EPR reference: EA/EPR/GB3009GG/V002 Operator: East Coast Waste Limited Waste Management licence No: 71417 Annual Tonnage: 74999	Issue Date: 13/07/2005 Effective Date: 23/04/2018 Modified: 19/06/2018 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
B	On site	Site Name: Great Yarmouth Site Address: Hafreys Industrial Estate, Hafreys Road, Great Yarmouth, Norfolk, NR31 0JR Correspondence Address: 74, Southdown Road, Great Yarmouth, Norfolk, NR31 0JR	Type of Site: Special Waste Transfer Station Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MRP001 EPR reference: - Operator: Clements P Waste Management licence No: 70532 Annual Tonnage: 0	Issue Date: 04/01/1990 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
B	On site	Site Name: East Coast Waste Limited Site Address: Harfreys Industrial Estate, Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: EAS013 EPR reference: EA/EPR/JB3908UV/T001 Operator: East Coast Waste Limited Waste Management licence No: 70532 Annual Tonnage: 62500	Issue Date: 04/01/1990 Effective Date: 19/01/2021 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
B	On site	Site Name: Great Yarmouth Site Address: Harfreys Industrial Estate, Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MRP001 EPR reference: EA/EPR/YP3299NB/A001 Operator: Clements Paul Waste Management licence No: 70532 Annual Tonnage: 62500	Issue Date: 04/01/1990 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	On site	Site Name: Great Yarmouth Site Address: Harfreys Industrial Estate, Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MRP001 EPR reference: EA/EPR/YP3299NB/A001 Operator: Clements Paul Waste Management licence No: 70532 Annual Tonnage: 62500	Issue Date: 04/01/1990 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
A	35m N	Site Name: W T Waste Site Address: W T Waste, Harfreys Road, Harfreys Ind Est, Great Yarmouth, Norfolk, NR31 0LS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: THU005 EPR reference: EA/EPR/CP3094NZ/V003 Operator: Thurtle Walter Waste Management licence No: 71429 Annual Tonnage: 25000	Issue Date: 08/04/2005 Effective Date: - Modified: 27/10/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
A	35m N	Site Name: W T Waste Site Address: W T Waste, Harfreys Road, Harfreys Ind Est, Great Yarmouth, Norfolk, NR31 0LS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: THU005 EPR reference: EA/EPR/CP3094NZ/V003 Operator: Thurtle Walter Waste Management licence No: 71429 Annual Tonnage: 25000	Issue Date: 08/04/2005 Effective Date: - Modified: 27/10/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
C	57m S	Site Name: Harfrey's Road Transfer Station Site Address: Hafrey's Road Transfer Station, Harfrey's Road, Townlands, Great Yarmouth, Norfolk, NR31 8JL Correspondence Address: -	Type of Site: Inert & excavation Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRE397 EPR reference: EA/EPR/EB3535AM/V002 Operator: E E Green & Son Ltd Waste Management licence No: 103802 Annual Tonnage: 74999	Issue Date: 23/01/2012 Effective Date: - Modified: 01/05/2015 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
C	57m S	Site Name: Harfrey's Road Transfer Station Site Address: Hafrey's Road Transfer Station, Harfrey's Road, Townlands, Great Yarmouth, Norfolk, NR31 8JL Correspondence Address: -	Type of Site: Inert & excavation Waste TS + treatment Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRE397 EPR reference: EA/EPR/EB3535AM/V002 Operator: E E Green & Son Ltd Waste Management licence No: 103802 Annual Tonnage: 74999	Issue Date: 23/01/2012 Effective Date: - Modified: 01/05/2015 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
5	415m NW	Site Name: Great Yarmouth Site Address: Bessemer Way, Hafreys Industrial Estate, Great Yarmouth, Norfolk, NR31 0LX Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TRA001 EPR reference: EA/EPR/YP3699NT/S002 Operator: Transmit Containers Ltd Waste Management licence No: 70534 Annual Tonnage: 432	Issue Date: 06/12/1990 Effective Date: - Modified: - Surrendered Date: Nov 14 2003 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
I	491m N	Site Name: Great Yarmouth Site Address: Unit 2, Bessemer Way, Hafreys Industrial Estate, Great Yarmouth, NR31 0LX Correspondence Address: Head Office, Coronation Road, Cressex, High Wycombe, HP12 3TZ	Type of Site: Special Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: UKW001 EPR reference: - Operator: U K Waste Management Ltd Waste Management licence No: 70505 Annual Tonnage: 0	Issue Date: 01/05/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
I	491m N	Site Name: Biffa Waste Services Ltd Site Address: Unit 2, Bessemer Way, Hafreys Industrial Estate, Great Yarmouth, Norfolk, NR31 0LX Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: UKW003 EPR reference: EA/EPR/KP3898VU/V002 Operator: Biffa Waste Services Ltd Waste Management licence No: 70505 Annual Tonnage: 4999	Issue Date: 01/05/1992 Effective Date: - Modified: 02/04/2012 Surrendered Date: 0 Expiry Date: - Cancelled Date: - Status: Modified
I	491m N	Site Name: Great Yarmouth Waste Management Resource Centre Site Address: Unit 2, Bessemer Way, Harfreys Industrial Est., Great Yarmouth, Norfolk, NR31 0LX Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AUG012 EPR reference: EA/EPR/ZP3637RM/V002 Operator: Augean North Sea Services Limited Waste Management licence No: 70505 Annual Tonnage: 4999	Issue Date: 01/05/1992 Effective Date: 19/04/2016 Modified: 19/11/2018 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

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

3.7 Waste exemptions

Records within 500m

37

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

Features are displayed on the Waste and landfill map on **page 34**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	12m N	EAST COAST WASTE LTD, EUROCENTRE, NORTH RIVER ROAD, GREAT YARMOUTH, NR30 1TE	WEX270798	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	12m N	HARFREYS ROAD, GREAT YARMOUTH, NR31 0LS	WEX295848	Using waste exemption	Not on a Farm	Use of waste in construction
A	12m N	HARFREYS ROAD, GREAT YARMOUTH, NR31 0LS	WEX254410	Storing waste exemption	Not on a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
A	12m N	HARFREYS ROAD, GREAT YARMOUTH, NR31 0LS	WEX160673	Using waste exemption	Not on a Farm	Use of waste in construction
A	12m N	EAST COAST WASTE LTD, EUROCENTRE, NORTH RIVER ROAD, GREAT YARMOUTH, NR30 1TE	WEX130765	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	12m N	HARFREYS ROAD, GREAT YARMOUTH, NR31 0LS	WEX113408	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	33m NE	HARFREYS ROAD, GREAT YARMOUTH, NR31 0LS	WEX190936	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	33m NE	HARFREYS ROAD, GREAT YARMOUTH, NR31 0LS	WEX318742	Storing waste exemption	Not on a Farm	Storage of waste in a secure place
1	57m W	EAST COAST WASTE LTD, FIRST MARSH, HARFREYS ROAD, GREAT YARMOUTH, NR31 0LS	WEX247103	Using waste exemption	Not on a farm	Use of waste in construction
D	135m NW	Harfreys Road Harfreys Industrial Estate NR31 0LS	EPR/JF0636VE /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
D	135m NW	Harfreys Road Harfreys Industrial Estate NR31 0LS	EPR/WF0602S N/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
D	137m NW	East Coast Waste Ltd, First Marsh, Harfreys Road, Great Yarmouth, NR31 0LS	WEX104570	Using waste exemption	Not on a farm	Use of waste in construction
E	144m N	Harfreys Road Recycling Facility, Harfreys Road, Harfreys Industrial Estate, Great Yarmouth, NR31 0JL	WEX256988	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	154m N	Harfreys Road Recycling Facility, Harfreys Road, Harfreys Industrial Estate, Great Yarmouth, NR31 0JL	WEX116264	Storing waste exemption	Not on a farm	Storage of waste in a secure place
3	224m NW	Newey & Eyre Ltd Brinell Way Great Yarmouth NR31 0LU	EPR/YF0937RH /A001	Treating waste exemption	Non-Agricultural Waste Only	Crushing waste fluorescent tubes
F	335m W	Unit 11, Morton peto road, Great Yarmouth, NR310LT	WEX270739	Treating waste exemption	Not on a farm	Recovery of scrap metal
F	335m W	Unit 11, Morton peto road, Great Yarmouth, NR310LT	WEX270739	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)



ID	Location	Site	Reference	Category	Sub-Category	Description
F	335m W	Unit 11, Morton Peto Road, Great Yarmouth, NR31 0LT	WEX229958	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
F	335m W	Unit 11, Morton Peto Road, Great Yarmouth, NR31 0LT	WEX229958	Treating waste exemption	Not on a farm	Recovery of scrap metal
F	335m W	Unit 11, Morton Peto Road, Great Yarmouth, NR31 0LT	WEX229958	Storing waste exemption	Not on a farm	Storage of waste in a secure place
F	335m W	East Anglian Copper Recycling, UNIT 11, MORTON PETO ROAD, GREAT YARMOUTH, NR31 0LT	WEX094079	Treating waste exemption	Not on a farm	Recovery of scrap metal
F	335m W	East Anglian Copper Recycling, UNIT 11, MORTON PETO ROAD, GREAT YARMOUTH, NR31 0LT	WEX094079	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
F	362m W	FLAMESKILL HOUSE, MORTON PETO ROAD, GREAT YARMOUTH, NR31 0LT	WEX302318	Storing waste exemption	Not on a Farm	Storage of waste in a secure place
F	362m W	FLAMESKILL HOUSE, MORTON PETO ROAD, GREAT YARMOUTH, NR31 0LT	WEX286921	Storing waste exemption	Not on a farm	Storage of waste in a secure place
4	365m NE	-	WEX254268	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
F	402m W	Flameskill Limited, Flameskill House, Morton Peto Road, Great Yarmouth, NR31 0LT	WEX168073	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	407m NW	HANOVER HOUSE UNIT G2-G4, BOUNDARY ROAD, GREAT YARMOUTH, NR31 0LY	WEX239982	Disposing of waste exemption	Not on a farm	Burning waste in the open
G	407m NW	HANOVER HOUSE UNIT G2-G4, BOUNDARY ROAD, GREAT YARMOUTH, NR31 0LY	WEX097301	Disposing of waste exemption	Not on a farm	Burning waste in the open

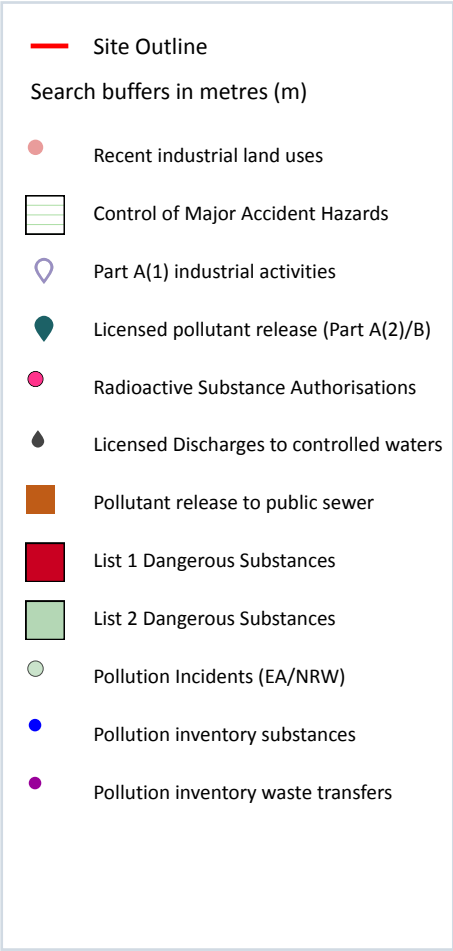
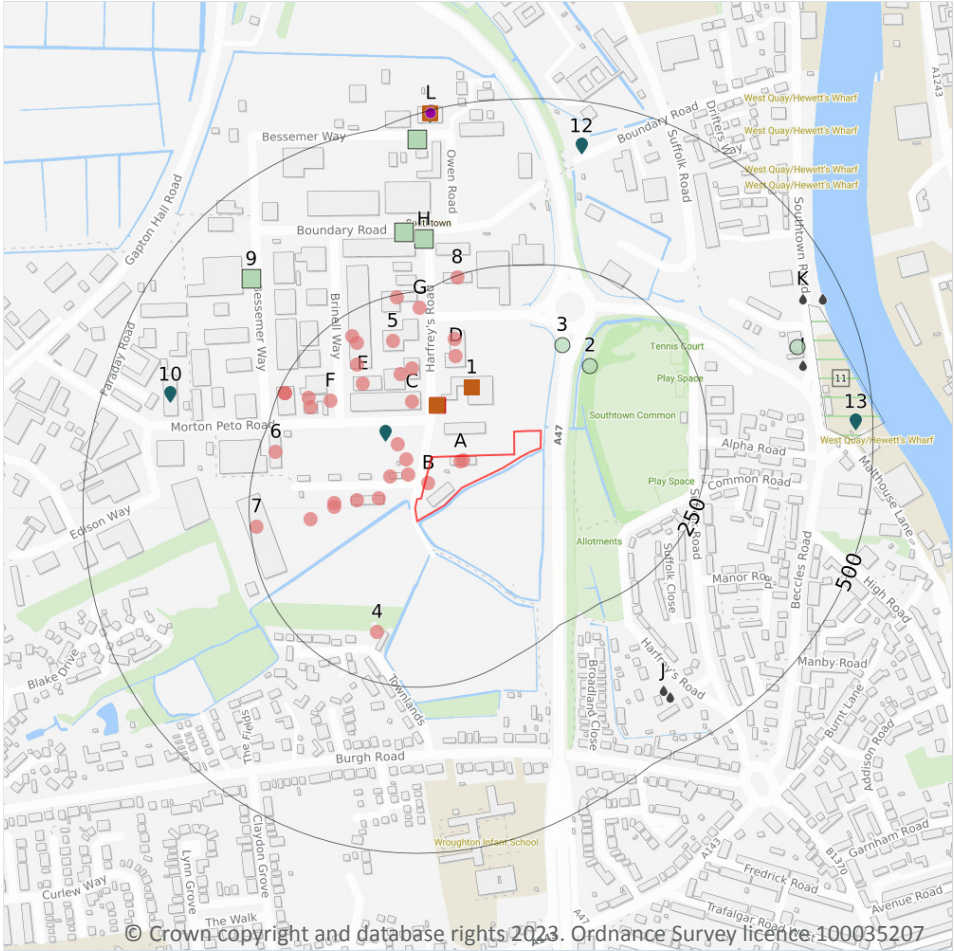


ID	Location	Site	Reference	Category	Sub-Category	Description
6	428m SW	158 Burgh Road GREAT YARMOUTH Norfolk NR31 8AX	EPR/BF0309PJ /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
7	459m E	ASCO UK Ltd Gas House Quay Malthouse Lane Great Yarmouth Norfolk NR31 0HL	EPR/VF0906CF /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Recovery of scrap metal
8	475m W	UNIT 11, MORTON PETO ROAD, GREAT YARMOUTH, NR31 0LT	WEX149789	Storing waste exemption	Not on a farm	Storage of waste in a secure place
H	483m W	UNIT 11, MORTON PETO ROAD, GREAT YARMOUTH, NR31 0LT	WEX211722	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
H	483m W	UNIT 11, MORTON PETO ROAD, GREAT YARMOUTH, NR31 0LT	WEX211722	Treating waste exemption	Not on a farm	Recovery of scrap metal
H	483m W	UNIT 11, MORTON PETO ROAD, GREAT YARMOUTH, NR31 0LT	WEX211722	Storing waste exemption	Not on a farm	Storage of waste in a secure place
H	483m W	UNIT 11, MORTON PETO ROAD, GREAT YARMOUTH, NR31 0LT	WEX067259	Storing waste exemption	Not on a farm	Storage of waste in a secure place
H	483m W	UNIT 11, MORTON PETO ROAD, GREAT YARMOUTH, NR31 0LT	WEX067259	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
H	483m W	UNIT 11, MORTON PETO ROAD, GREAT YARMOUTH, NR31 0LT	WEX067259	Treating waste exemption	Not on a farm	Recovery of scrap metal

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 **34**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 46**

ID	Location	Company	Address	Activity	Category
A	On site	Aquaterra Energy	Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS	Special Purpose Machinery and Equipment	Industrial Products
A	On site	East Coast Waste	East Coast Waste, Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS	Construction and Tool Hire	Hire Services

ID	Location	Company	Address	Activity	Category
B	On site	Recycling Business	Norfolk, NR31	Recycling Centres	Infrastructure and Facilities
B	27m W	Electricity Sub Station	Norfolk, NR31	Electrical Features	Infrastructure and Facilities
B	37m W	Tank	Norfolk, NR31	Tanks (Generic)	Industrial Features
B	53m W	Tank	Norfolk, NR31	Tanks (Generic)	Industrial Features
B	54m W	C & H Quickmix	Morton Peto Road, Great Yarmouth, Norfolk, NR31 0LT	Concrete Products	Industrial Products
B	57m W	J W Munnings Ltd	1 Munnings Court, Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS	Construction and Tool Hire	Hire Services
B	88m W	Hubble	2 Munnings Court, Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS	General Construction Supplies	Industrial Products
C	89m NW	S P P Digital Ltd	Spp Digital, Morton Peto Road, Bradwell, Norfolk, NR31 0LT	Published Goods	Industrial Products
B	122m W	East Coast Insulations Ltd	Munnings Court, Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS	Recycling, Reclamation and Disposal	Recycling Services
B	122m W	Dabbrook Engineering Ltd	Munnings Court, Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS	Electrical and Electronic Engineers	Engineering Services
C	133m NW	Seabed Scour Control Systems Ltd	Units A and C, Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS	Ropes, Nets and Cordage	Industrial Products
C	137m NW	Marineserv UK Ltd	Units A and C, Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS	Marine Engineers and Services	Engineering Services
D	144m N	L G Perfect	Harfreys Road, Great Yarmouth, Norfolk, NR31 0JL	Vehicle Repair, Testing and Servicing	Repair and Servicing
E	152m NW	Survitech Service & Distribution Ltd	Unit 16 The Breydon Centre, Brinell Way, Great Yarmouth, Norfolk, NR31 0LU	Vehicle Repair, Testing and Servicing	Repair and Servicing
B	159m W	Mast	Norfolk, NR31	Telecommunications Features	Infrastructure and Facilities
D	165m N	E E Green & Son Ltd	Jubilee Works, Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS	Construction and Tool Hire	Hire Services



ID	Location	Company	Address	Activity	Category
F	174m NW	D N V GI	Cooke House, Brinell Way, Great Yarmouth, Norfolk, NR31 0LT	Marine Engineers and Services	Engineering Services
4	178m SW	Pumping Station	Norfolk, NR31	Water Pumping Stations	Industrial Features
E	179m NW	Softstart UK Ltd	Unit 14 The Breydon Centre, Brinell Way, Great Yarmouth, Norfolk, NR31 0LU	Measurement and Inspection Equipment	Industrial Products
5	184m NW	A T A M Group Ltd	Unit B, Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS	Civil Engineers	Engineering Services
F	196m W	S M S Auto Care Ltd	Units 2 to 3 Cooke House, Morton Peto Road, Great Yarmouth, Norfolk, NR31 0LT	Vehicle Repair, Testing and Servicing	Repair and Servicing
F	206m NW	Applus	Unit 1 Suite A and B Cooke House, Brinell Way, Great Yarmouth, Norfolk, NR31 0LU	Special Purpose Machinery and Equipment	Industrial Products
E	206m NW	Ses Fabrication	Unit 11, The Breydon Centre, Brinell Way, Great Yarmouth, Norfolk, NR31 0LU	Vehicle Repair, Testing and Servicing	Repair and Servicing
E	218m NW	Controlled Repair Instruments Ltd	Unit 9-11, Brinell Way, Great Yarmouth, Norfolk, NR31 0LU	Seals, Tapes, Taps and Valves	Industrial Products
6	224m W	Scantech Offshore	Scantech House, Morton Peto Road, Great Yarmouth, Norfolk, NR31 0LT	Special Purpose Machinery and Equipment	Industrial Products
G	225m N	Electricity Sub Station	Norfolk, NR31	Electrical Features	Infrastructure and Facilities
7	240m W	D S V Solutions Ltd	D S V Road Ltd, Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS	Container and Storage	Transport, Storage and Delivery
F	241m NW	M Durrant Transport Ltd	Unit 2, Bessemer Way, Great Yarmouth, Norfolk, NR31 0LX	Concrete Products	Industrial Products
F	241m NW	Rentair Offshore	Unit 2, Bessemer Way, Great Yarmouth, Norfolk, NR31 0LX	Access Equipment	Industrial Products
F	241m NW	Augean North Sea Services	Unit 2, Bessemer Way, Great Yarmouth, Norfolk, NR31 0LX	Waste Storage, Processing and Disposal	Infrastructure and Facilities
G	246m N	C & M Hydraulics	Da Vinci House, Harfreys Road, Gorleston, Great Yarmouth, Norfolk, NR31 0LS	Hydraulic Engineers	Engineering Services
8	248m N	Noritake Itron	Vantage House, Harfreys Road, Great Yarmouth, Norfolk, NR31 0LS	Electrical Components	Industrial Products



This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m **0**

Open, closed, under development and obsolete petrol stations.

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 **1**

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

Features are displayed on the Current industrial land use map on **page 46**

ID	Location	Company	Address	Operational status	Tier
11	426m E	Asco UK Limited	Asco UK Limited, Gas House Quay, Southtown Road, Great Yarmouth, Norfolk, NR30 3LX	Historical NIHHS Site	-

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

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

21

Records of Part A(1) 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 46**

ID	Location	Details	
L	495m N	Operator: AUGEAN NORTH SEA SERVICES LIMITED Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/ZP3637RM Process: ASSOCIATED PROCESS Permit Number: UP3031JE Original Permit Number: ZP3637RM	EPR Reference: - Issue Date: 19/11/2018 Effective Date: 19/11/2018 Last date noted as effective: 01/12/2022 Status: EFFECTIVE

ID	Location	Details	
L	495m N	Operator: AUGEAN NORTH SEA SERVICES LIMITED Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/ZP3637RM Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: UP3031JE Original Permit Number: ZP3637RM	EPR Reference: - Issue Date: 19/11/2018 Effective Date: 19/11/2018 Last date noted as effective: 01/12/2022 Status: EFFECTIVE
L	495m N	Operator: BIFFA WASTE SERVICES LTD Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/RP3636SR Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BLENDING OR MIXING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: JP3336EE Original Permit Number: RP3636SR	EPR Reference: - Issue Date: 15/01/2014 Effective Date: 15/01/2014 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
L	495m N	Operator: BIFFA WASTE SERVICES LTD Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/RP3636SR Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: JP3336EE Original Permit Number: RP3636SR	EPR Reference: - Issue Date: 15/01/2014 Effective Date: 15/01/2014 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
L	495m N	Operator: AUGEAN NORTH SEA SERVICES LIMITED Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/ZP3637RM Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BLENDING OR MIXING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: ZP3637RM Original Permit Number: ZP3637RM	EPR Reference: - Issue Date: 28/04/2016 Effective Date: 28/04/2016 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
L	495m N	Operator: AUGEAN NORTH SEA SERVICES LIMITED Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/ZP3637RM Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BLENDING OR MIXING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: UP3031JE Original Permit Number: ZP3637RM	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 03/12/2018 Status: DETERMINATION



ID	Location	Details	
L	495m N	Operator: AUGEAN NORTH SEA SERVICES LIMITED Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/ZP3637RM Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: ZP3637RM Original Permit Number: ZP3637RM	EPR Reference: - Issue Date: 28/04/2016 Effective Date: 28/04/2016 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
L	495m N	Operator: BIFFA WASTE SERVICES LTD Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/RP3636SR Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D Permit Number: RP3636SR Original Permit Number: RP3636SR	EPR Reference: - Issue Date: 29/06/2006 Effective Date: 29/06/2006 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
L	495m N	Operator: AUGEAN NORTH SEA SERVICES LIMITED Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/ZP3637RM Process: ASSOCIATED PROCESS Permit Number: ZP3637RM Original Permit Number: ZP3637RM	EPR Reference: - Issue Date: 28/04/2016 Effective Date: 28/04/2016 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
L	495m N	Operator: BIFFA WASTE SERVICES LTD Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/RP3636SR Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: JP3336EE Original Permit Number: RP3636SR	EPR Reference: - Issue Date: 15/01/2014 Effective Date: 15/01/2014 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
L	495m N	Operator: BIFFA WASTE SERVICES LTD Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/RP3636SR Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: JP3336EE Original Permit Number: RP3636SR	EPR Reference: - Issue Date: 15/01/2014 Effective Date: 15/01/2014 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
L	495m N	Operator: BIFFA WASTE SERVICES LTD Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/RP3636SR Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D Permit Number: RP3636SR Original Permit Number: RP3636SR	EPR Reference: - Issue Date: 29/06/2006 Effective Date: 29/06/2006 Last date noted as effective: 01/12/2022 Status: SUPERCEDED



ID	Location	Details	
L	495m N	Operator: BIFFA WASTE SERVICES LTD Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/RP3636SR Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: JP3336EE Original Permit Number: RP3636SR	EPR Reference: - Issue Date: 15/01/2014 Effective Date: 15/01/2014 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
L	495m N	Operator: BIFFA WASTE SERVICES LTD Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/RP3636SR Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D Permit Number: RP3636SR Original Permit Number: RP3636SR	EPR Reference: - Issue Date: 29/06/2006 Effective Date: 29/06/2006 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
L	495m N	Operator: BIFFA WASTE SERVICES LTD Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/RP3636SR Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: RP3636SR Original Permit Number: RP3636SR	EPR Reference: - Issue Date: 29/06/2006 Effective Date: 29/06/2006 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
L	495m N	Operator: BIFFA WASTE SERVICES LTD Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/RP3636SR Process: ASSOCIATED PROCESS Permit Number: JP3336EE Original Permit Number: RP3636SR	EPR Reference: - Issue Date: 15/01/2014 Effective Date: 15/01/2014 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
L	495m N	Operator: AUGEAN NORTH SEA SERVICES LIMITED Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/ZP3637RM Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: UP3031JE Original Permit Number: ZP3637RM	EPR Reference: - Issue Date: 19/11/2018 Effective Date: 19/11/2018 Last date noted as effective: 01/12/2022 Status: EFFECTIVE
L	495m N	Operator: AUGEAN NORTH SEA SERVICES LIMITED Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/ZP3637RM Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: UP3031JE Original Permit Number: ZP3637RM	EPR Reference: - Issue Date: 19/11/2018 Effective Date: 19/11/2018 Last date noted as effective: 01/12/2022 Status: EFFECTIVE



ID	Location	Details	
L	495m N	Operator: AUGEAN NORTH SEA SERVICES LIMITED Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/ZP3637RM Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: UP3031JE Original Permit Number: ZP3637RM	EPR Reference: - Issue Date: 19/11/2018 Effective Date: 19/11/2018 Last date noted as effective: 01/12/2022 Status: EFFECTIVE
L	495m N	Operator: AUGEAN NORTH SEA SERVICES LIMITED Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/ZP3637RM Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: ZP3637RM Original Permit Number: ZP3637RM	EPR Reference: - Issue Date: 28/04/2016 Effective Date: 28/04/2016 Last date noted as effective: 01/12/2022 Status: SUPERCEDED
L	495m N	Operator: AUGEAN NORTH SEA SERVICES LIMITED Installation Name: GREAT YARMOUTH WM RESOURCE CENTRE EPR/ZP3637RM Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: ZP3637RM Original Permit Number: ZP3637RM	EPR Reference: - Issue Date: 28/04/2016 Effective Date: 28/04/2016 Last date noted as effective: 01/12/2022 Status: SUPERCEDED

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

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

Records within 500m	5
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Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 46**

ID	Location	Address	Details	
B	78m NW	C & H Quickmix Ltd, Morton Peto Road, Great Yarmouth, Norfolk, NR31 0LT	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

ID	Location	Address	Details	
10	403m W	Coastground Ltd, Morton Peto Road, Great Yarmouth, Norfolk, NR31 0LT	Process: Metal Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
12	432m N	Cemex UK Materials Ltd, Boundary Road, NR31 0FB	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
13	474m E	CEBO (UK) Ltd, Gas House Quay North, Malthouse Lane, Gorleston, Norfolk, NR31 0GY	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
L	493m N	UK Waste Management, Bessemer Way, Great Yarmouth, Norfolk, NR31 0LX	Process: Waste Oil Burner 0.4 MW Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

1

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

Features are displayed on the Current industrial land use map on **page 46**

ID	Location	Address	Details	
L	495m N	Tube Care Inspection Ltd, Bessemer Way, harfeys Industrial Estate, Great Yarmouth, Norfolk, NR31 0LX	Operator: Tube Care Inspection Ltd Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1). Permission number: BS0329 Date of approval: 20/05/2002	Effective from: 20/05/2002 Last date of update: 01/01/2015 Status: Revoked/cancelled

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 46**



ID	Location	Address	Details	
I	405m E	GT YARMOUTH CORPORATION, BOUNDARY ROAD	Effluent Type: SEWAGE DISCHARGES - UNSPECIFIED - WATER COMPANY Permit Number: AW4TS721X Permit Version: 1 Receiving Water: River Yare	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 09/07/1971 Effective Date: 09/07/1971 Revocation Date: 16/02/1998
J	409m SE	ATCHIN TAN, HARFREYS ROAD, GORLESTON, GT.YARMOUTH, NORFOLK	Effluent Type: UNSPECIFIED Permit Number: PRELF03747 Permit Version: 1 Receiving Water: -	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 30/10/1990 Effective Date: 30/10/1990 Revocation Date: 01/10/1996
J	423m SE	HARFREYS ROAD, GT YARMOUTH, NORFOLK	Effluent Type: UNSPECIFIED Permit Number: PR4LF268 Permit Version: 1 Receiving Water: Soakaway	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 27/09/1985 Effective Date: 27/09/1985 Revocation Date: 01/10/1996
K	440m NE	SOUTHTOWN COMMON OUTFALL DRAINAGE S, GREAT YARMOUTH, NR31	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: AW4TS348X Permit Version: 1 Receiving Water: River Yare	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 25/01/1963 Effective Date: 25/01/1963 Revocation Date: 07/06/1991
K	467m NE	SOUTHTOWN/COBHAM OUTFALL, SOUTHTOWN ROAD, GREAT YARMOUTH, NORFOLK, NR31 0LF	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: AEETS03293/12171 Permit Version: 1 Receiving Water: R.YARE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 21/02/2003 Effective Date: 27/01/2003 Revocation Date: 01/04/2005
K	467m NE	SOUTHTOWN/COBHAM OUTFALL, SOUTHTOWN ROAD, GREAT YARMOUTH, NORFOLK, NR31 0LF	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: AEETS03293/12171 Permit Version: 1 Receiving Water: R.YARE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 21/02/2003 Effective Date: 27/01/2003 Revocation Date: 01/04/2005
K	467m NE	SOUTHTOWN/COBHAM OUTFALL, SOUTHTOWN ROAD, GREAT YARMOUTH, NORFOLK, NR31 0LF	Effluent Type: SEWAGE DISCHARGES - UNSPECIFIED - WATER COMPANY Permit Number: AW4TS1387 Permit Version: 1 Receiving Water: River Yare T	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 14/10/1987 Effective Date: 14/10/1987 Revocation Date: 22/03/2002



ID	Location	Address	Details	
K	467m NE	SOUTHTOWN/COBHAM OUTFALL, SOUTHTOWN ROAD, GREAT YARMOUTH, NORFOLK, NR31 0LF	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: AEETS12171 Permit Version: 1 Receiving Water: TIDAL RIVER YARE	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 15/10/1999 Effective Date: 15/10/1999 Revocation Date: 31/03/2005
K	467m NE	SOUTHTOWN/COBHAM OUTFALL, SOUTHTOWN ROAD, GREAT YARMOUTH, NORFOLK, NR31 0LF	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: AEETS12171 Permit Version: 1 Receiving Water: TIDAL RIVER YARE	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 15/10/1999 Effective Date: 15/10/1999 Revocation Date: 31/03/2005
K	467m NE	SOUTHTOWN/COBHAM OUTFALL, SOUTHTOWN ROAD, GREAT YARMOUTH, NORFOLK, NR31 0LF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: AEETS12171 Permit Version: 2 Receiving Water: TIDAL RIVER YARE	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 24/03/2005 Effective Date: 01/04/2005 Revocation Date: -
K	467m NE	SOUTHTOWN/COBHAM OUTFALL, SOUTHTOWN ROAD, GREAT YARMOUTH, NORFOLK, NR31 0LF	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: AEETS12171 Permit Version: 2 Receiving Water: TIDAL RIVER YARE	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 24/03/2005 Effective Date: 01/04/2005 Revocation Date: -

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

3

Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on **page 46**



ID	Location	Address	Details	
C	77m NW	WEATHERFORD UK LIMITED, HARFREY'S ROAD, HARFREY'S IND EST, GREAT YARMOUTH, NORFOLK, NR31 0LS	Permission reference: CA3653 Local Authority: GREAT YARMOUTH BOROUGH COUNCIL First received date: 01/07/2010	Last received date: 01/01/2018 Status: EFFECTIVE
1	92m N	Weatherford UK Ltd, HARFREYS ROAD, HARFREYS IND ESTATE, HARFREYS IND EST, GREAT YARMOUTH, NORFOLK, NR30 2RA	Permission reference: SCE0127C2 Local Authority: NORFOLK First received date: 01/01/2014	Last received date: 01/01/2018 Status: EFFECTIVE
L	495m N	BIFFA WASTE SERVICES LTD, BESSEMER WAY, HARFEYS IND EST, GREAT YARMOUTH, NORFOLK, NR31 0LX	Permission reference: BL8830 Local Authority: GREAT YARMOUTH BOROUGH COUNCIL First received date: 01/06/2003	Last received date: 01/01/2018 Status: EFFECTIVE

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

4.16 List 1 Dangerous Substances

Records within 500m

1

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.

Features are displayed on the Current industrial land use map on **page 46**

ID	Location	Name	Status	Receiving Water	Authorised Substances
C	77m NW	Weatherford Uk Limited	Not Active	Na	Mercury (other), Cadmium

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

4.17 List 2 Dangerous Substances

Records within 500m

4

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 46**

ID	Location	Name	Status	Receiving Water	Authorised Substances
H	320m N	Great Yarmouth Cardboard Box Company	Not Active	Na	pH
H	340m N	U K Waste Management Limited	Active	North Sea	Chromium, Copper, Lead, Nickel, Zinc
9	381m NW	Superior Linen Service Ltd	Not Active	Na	pH



ID	Location	Name	Status	Receiving Water	Authorised Substances
L	463m N	Edeco Petroleum Services Ltd	Not Active	Na	pH

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	3
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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 46**

ID	Location	Details	
2	122m NE	Incident Date: 23/03/2002 Incident Identification: 67348 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
3	132m NE	Incident Date: 17/09/2003 Incident Identification: 190491 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
1	406m E	Incident Date: 22/08/2003 Incident Identification: 184276 Pollutant: Specific Waste Materials:Specific Waste Materials Pollutant Description: Tyres:Vehicles and Vehicle Parts	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	1
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The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

Features are displayed on the Current industrial land use map on **page 46**

ID: L, Location: 496m N, Permit: ZP3637RM
 Operator: Augean North Sea Services Limited
 Activity: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT
 Address: Great Yarmouth Waste Management Resource Centre Unit 2 Bessemer Way Harfreys Industrial Estate Norfolk NR31 0LX
 Sector: Hazardous Waste, Sub-sector: Hazardous Waste
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Benzene	1000kg	Below Reporting Threshold
Air	Non-methane volatile organic compounds (NMVOCs)	10000kg	Below Reporting Threshold
Air	Asbestos	1kg	Below Reporting Threshold

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

4.20 Pollution inventory waste transfers

Records within 500m	1
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The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

Features are displayed on the Current industrial land use map on **page 46**

ID: L, Location: 496m N, Permit: ZP3637RM
 Operator: Augean North Sea Services Limited
 Activity: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT
 Address: Great Yarmouth Waste Management Resource Centre Unit 2 Bessemer Way Harfreys Industrial Estate Norfolk NR31 0LX
 Sector: Hazardous Waste, Sub-sector: Hazardous Waste
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	2.24	Absolute Value	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	1

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R9	Oil e-refining or other reuses of oil	40.612	Absolute Value	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	1
R9	Oil e-refining or other reuses of oil	9.99	Absolute Value	13 07 01	fuel oil and diesel	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	3.2	Absolute Value	13 07 01	fuel oil and diesel	1
D10	Incineration on Land	104.24	Absolute Value	16 07 09	wastes containing other dangerous substances	1
D8	Biological treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbers D1 to D12	220.55	Absolute Value	16 10 01	aqueous liquid wastes containing dangerous substances	1
D9	Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbers D1 to D12 (eg evaporation, drying, calcination, etc.)	366.42	Absolute Value	16 10 01	aqueous liquid wastes containing dangerous substances	1
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.08	Absolute Value	16 10 01	aqueous liquid wastes containing dangerous substances	1
R1	Use principally as a fuel or other means to generate energy	23	Absolute Value	16 10 01	aqueous liquid wastes containing dangerous substances	1
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	143.23	Absolute Value	16 10 01	aqueous liquid wastes containing dangerous substances	1



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	121.28	Absolute Value	16 10 01	aqueous liquid wastes containing dangerous substances	1
D8	Biological treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbers D1 to D12	1855.93	Absolute Value	16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01	0
D9	Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbers D1 to D12 (eg evaporation, drying, calcination, etc.)	31.19	Absolute Value	16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01	0
D14	Repackaging prior to submission to any of the operations numbered D1 to D13	7	Absolute Value	16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01	0
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	1.68	Absolute Value	17 02 04	glass, plastic and wood containing or contaminated with dangerous substances	1
R4	Recycling/reclamation of metals and metal compounds	0.5	Absolute Value	17 04 01	copper, bronze, brass	0
R4	Recycling/reclamation of metals and metal compounds	13.2	Absolute Value	17 04 05	iron and steel	0
R4	Recycling/reclamation of metals and metal compounds	0.97	Absolute Value	17 04 11	cables other than those mentioned in 17 04 10	0
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	4.5	Absolute Value	17 06 01	insulation materials containing asbestos	1
D1	Deposit into or onto land (eg landfill, etc.)	26.42	Absolute Value	17 06 05	construction materials containing asbestos	1



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	9.2	Absolute Value	17 06 05	construction materials containing asbestos	1
D14	Repackaging prior to submission to any of the operations numbered D1 to D13	185	Absolute Value	19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	0
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	33	Absolute Value	19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	0
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	4.08	Absolute Value	20 01 01	paper and cardboard	0
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	9.5	Absolute Value	20 01 01	paper and cardboard	0
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.5	Absolute Value	20 01 21	fluorescent tubes and other mercury-containing waste	1
R4	Recycling/reclamation of metals and metal compounds	0.284	Absolute Value	20 01 23	discarded equipment containing chlorofluorocarbons	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.895	Absolute Value	20 01 23	discarded equipment containing chlorofluorocarbons	1
R9	Oil e-refining or other reuses of oil	1.535	Absolute Value	20 01 25	edible oil and fat	0



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	1.21	Absolute Value	20 01 25	edible oil and fat	0
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.62	Absolute Value	20 01 27	paint, inks, adhesives and resins containing dangerous substances	1
D10	Incineration on Land	0.093	Absolute Value	20 01 29	detergents containing dangerous substances	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.462	Absolute Value	20 01 33	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries	1
R4	Recycling/reclamation of metals and metal compounds	3.398	Absolute Value	20 01 35	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components (6)	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.88	Absolute Value	20 01 35	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components (6)	1
R4	Recycling/reclamation of metals and metal compounds	0.057	Absolute Value	20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	0
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	4.025	Absolute Value	20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	0
R4	Recycling/reclamation of metals and metal compounds	68.7	Absolute Value	20 01 40	metals	0
D14	Repackaging prior to submission to any of the operations numbered D1 to D13	10.833	Absolute Value	20 03 01	mixed municipal waste	0



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	61.9	Absolute Value	20 03 01	mixed municipal waste	0
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	1.78	Absolute Value	20 03 07	bulky waste	0
R9	Oil e-refining or other reuses of oil	1	Absolute Value	13 07 03	other fuels (including mixtures)	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	13.29	Absolute Value	13 07 03	other fuels (including mixtures)	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	21.02	Absolute Value	15 01 10	packaging containing residues of or contaminated by dangerous substances	1
D10	Incineration on Land	0.025	Absolute Value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	1
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	3.1	Absolute Value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	44.766	Absolute Value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	1



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D9	Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (eg evaporation, drying, calcination, etc.)	1	Absolute Value	15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	0
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.205	Absolute Value	15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	0
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	1	Absolute Value	15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	0
D14	Repackaging prior to submission to any of the operations numbered D1 to D13	0.38	Absolute Value	16 01 03	end-of-life tyres	0
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	6.85	Absolute Value	16 01 07	oil filters	1
R4	Recycling/reclamation of metals and metal compounds	0.237	Absolute Value	16 02 11	discarded equipment containing chlorofluorocarbons, HCFC, HFC	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.203	Absolute Value	16 02 11	discarded equipment containing chlorofluorocarbons, HCFC, HFC	1
R4	Recycling/reclamation of metals and metal compounds	0.106	Absolute Value	16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	0
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.4	Absolute Value	16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	0



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	7.594	Absolute Value	16 03 03	inorganic wastes containing dangerous substances	1
D9	Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numberes D1 to D12 (eg evaporation, drying, calcination, etc.)	0.2	Absolute Value	16 03 03	inorganic wastes containing dangerous substances	1
D10	Incineration on Land	0.915	Absolute Value	16 03 03	inorganic wastes containing dangerous substances	1
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.02	Absolute Value	16 03 03	inorganic wastes containing dangerous substances	1
D9	Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numberes D1 to D12 (eg evaporation, drying, calcination, etc.)	19.105	Absolute Value	16 03 04	inorganic wastes other than those mentioned in 16 03 03	0
D10	Incineration on Land	0.052	Absolute Value	16 03 04	inorganic wastes other than those mentioned in 16 03 03	0
D10	Incineration on Land	0.45	Absolute Value	16 03 05	organic wastes containing dangerous substances	1
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.17	Absolute Value	16 03 05	organic wastes containing dangerous substances	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.04	Absolute Value	16 03 05	organic wastes containing dangerous substances	1



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D10	Incineration on Land	0.05	Absolute Value	16 05 04	gases in pressure containers (including halons) containing dangerous substances	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	2.451	Absolute Value	16 05 04	gases in pressure containers (including halons) containing dangerous substances	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	3.174	Absolute Value	16 05 05	gases in pressure containers other than those mentioned in 16 05 04	0
D10	Incineration on Land	0.06	Absolute Value	16 05 06	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	1
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.07	Absolute Value	16 05 06	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.004	Absolute Value	16 05 06	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	1
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.033	Absolute Value	16 05 07	discarded inorganic chemicals consisting of or containing dangerous substances	1
D10	Incineration on Land	0.005	Absolute Value	16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08	0
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	2.58	Absolute Value	16 06 01	lead batteries	1



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.8	Absolute Value	16 06 02	Ni-Cd batteries	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.071	Absolute Value	16 06 04	alkaline batteries (except 16 06 03)	0
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.157	Absolute Value	16 06 05	other batteries and accumulators	0
D9	Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (eg evaporation, drying, calcination, etc.)	104.05	Absolute Value	01 05 06	drilling muds and other drilling wastes containing dangerous substances	1
D13	Blending or mixing prior to submission to any of the operators numbered D1 to D12	84.3	Absolute Value	01 05 06	drilling muds and other drilling wastes containing dangerous substances	1
D14	Repackaging prior to submission to any of the operations numbered D1 to D13	26.77	Absolute Value	01 05 06	drilling muds and other drilling wastes containing dangerous substances	1
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	15.64	Absolute Value	01 05 06	drilling muds and other drilling wastes containing dangerous substances	1
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.03	Absolute Value	06 01 02	hydrochloric acid	1
D10	Incineration on Land	2.58	Absolute Value	06 01 04	phosphoric and phosphorous acid	1



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.205	Absolute Value	06 01 06	other acids	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.54	Absolute Value	07 01 04	other organic solvents, washing liquids and mother liquors	1
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	1.12	Absolute Value	08 01 11	waste paint and varnish containing organic solvents or other dangerous substances	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	10.346	Absolute Value	08 01 11	waste paint and varnish containing organic solvents or other dangerous substances	1
D9	Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (eg evaporation, drying, calcination, etc.)	1	Absolute Value	08 01 12	waste paint and varnish other than those mentioned in 08 01 11	0
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	2	Absolute Value	12 01 07	mineral-based machining oils free of halogens (except emulsions and solutions)	1
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	2.6	Absolute Value	12 01 09	machining emulsions and solutions free of halogens	1
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	94.556	Absolute Value	12 01 17	waste blasting material other than those mentioned in 12 01 16	0



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.81	Absolute Value	08 01 13	sludges from paint or varnish containing organic solvents or other dangerous substances	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.025	Absolute Value	08 03 12	waste ink containing dangerous substances	1
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.86	Absolute Value	08 04 09	waste adhesives and sealants containing organic solvents or other dangerous substances	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.389	Absolute Value	08 04 09	waste adhesives and sealants containing organic solvents or other dangerous substances	1
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.02	Absolute Value	08 05 01	waste isocyanates	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.165	Absolute Value	08 05 01	waste isocyanates	1
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.2	Absolute Value	09 01 02	water-based offset plate developer solutions	1
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	10	Absolute Value	20 01 38	wood other than that mentioned in 20 01 37	0

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



4.21 Pollution inventory radioactive waste

Records within 500m

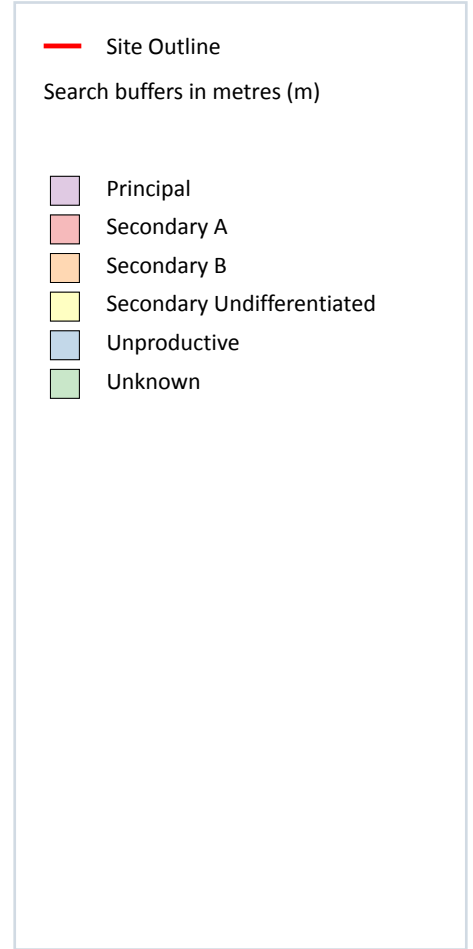
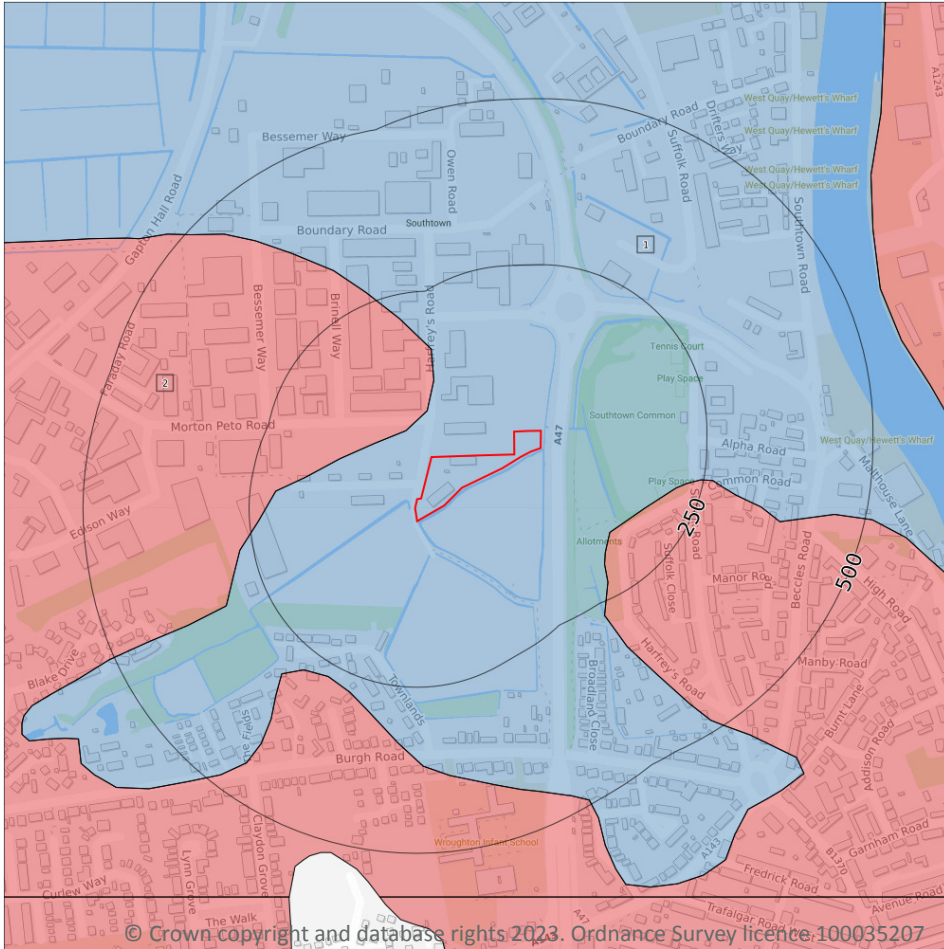
0

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

2

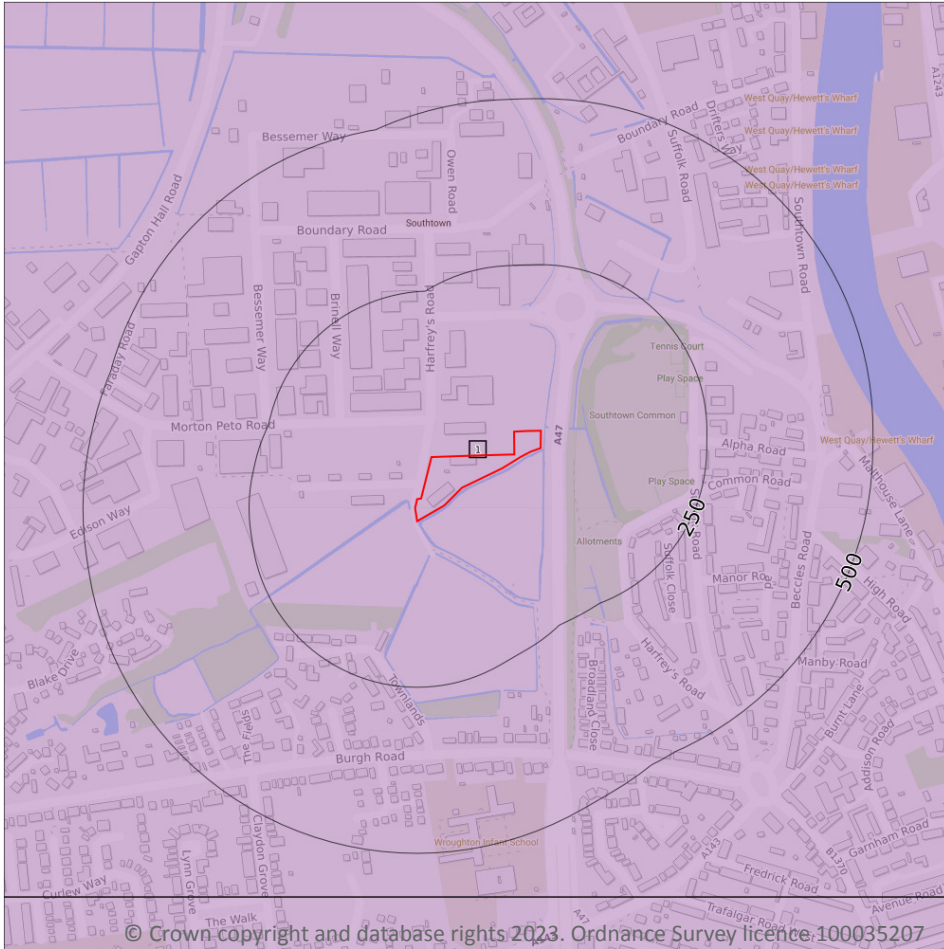
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 73**

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	55m 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

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

1

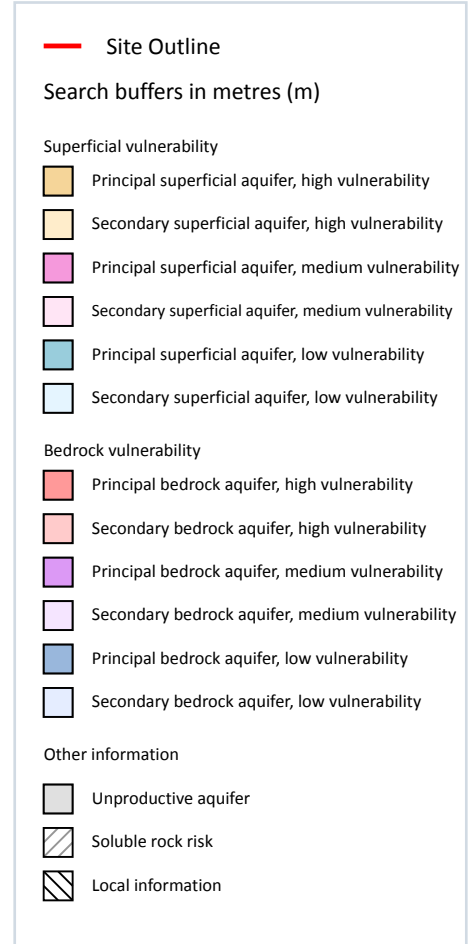
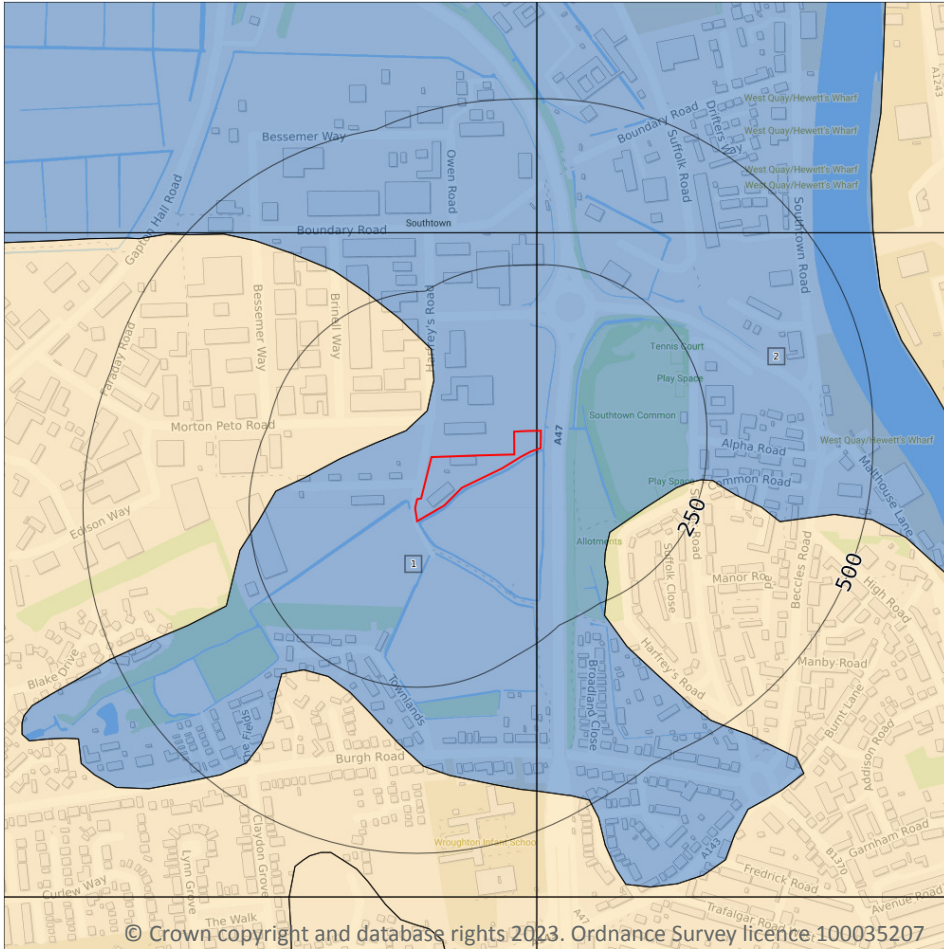
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 74**

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

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

Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

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

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

Features are displayed on the Groundwater vulnerability map on **page 75**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Intergranular
2	On site	Summary Classification: Principal bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Low Aquifer type: Principal Flow mechanism: Intergranular

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
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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.

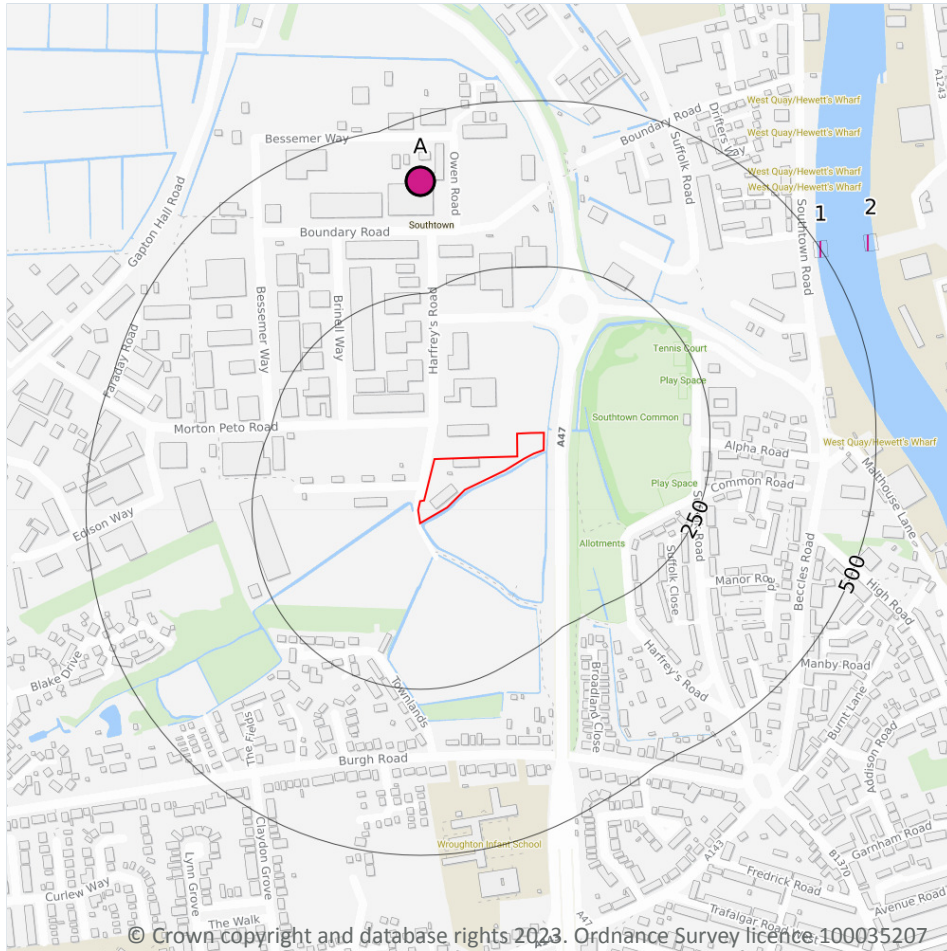
5.5 Groundwater vulnerability- local information

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



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5.6 Groundwater abstractions

Records within 2000m

4

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 77**

ID	Location	Details	
A	406m N	Status: Historical Licence No: AN/034/0015/020 Details: Laundry Use Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELLPOINTS AT THE LAUNDRY, PORTLAND LANE, GREAT YARMOUTH Data Type: Point Name: Camplings Limited Easting: 651820 Northing: 306080	Annual Volume (m ³): 60000 Max Daily Volume (m ³): 210 Original Application No: - Original Start Date: 01/12/2016 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/12/2016 Version End Date: -
A	406m N	Status: Active Licence No: AN/034/0015/020 Details: Laundry Use Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELLPOINTS AT 20 OWEN RD, HAFREYS INDUSTRIAL ESTATE Data Type: Point Name: Camplings Limited Easting: 651820 Northing: 306080	Annual Volume (m ³): 60,000 Max Daily Volume (m ³): 210 Original Application No: NPS/WR/026074 Original Start Date: 01/12/2016 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 09/05/2017 Version End Date: -
1	485m NE	Status: Active Licence No: AN/034/0015/024 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WEST COFFERDAM A Data Type: Poly4 Name: Northstone NI Limited Easting: 652411 Northing: 305989	Annual Volume (m ³): 1,261,441 Max Daily Volume (m ³): 3,456 Original Application No: NPS/WR/033369 Original Start Date: - Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 26/02/2021 Version End Date: -
2	555m NE	Status: Active Licence No: AN/034/0015/024 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: GROUND WATER SOURCE OF SUPPLY Point: EAST COFFERDAM B Data Type: Poly4 Name: Northstone NI Limited Easting: 652487 Northing: 305999	Annual Volume (m ³): 1,261,441 Max Daily Volume (m ³): 3,456 Original Application No: NPS/WR/033369 Original Start Date: - Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 26/02/2021 Version End Date: -

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



5.7 Surface water abstractions

Records within 2000m

1

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 77**

ID	Location	Details	
-	1169m NE	Status: Historical Licence No: AN/034/0015/013 Details: Hydraulic Testing Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER YARE AT BERTH 28, GREAT YARMOUTH Data Type: Line Name: INTERSERVE CONSTRUCTION LIMITED Easting: 652372 Northing: 306914	Annual Volume (m ³): 4000 Max Daily Volume (m ³): 100 Original Application No: - Original Start Date: 16/12/2013 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 16/12/2013 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

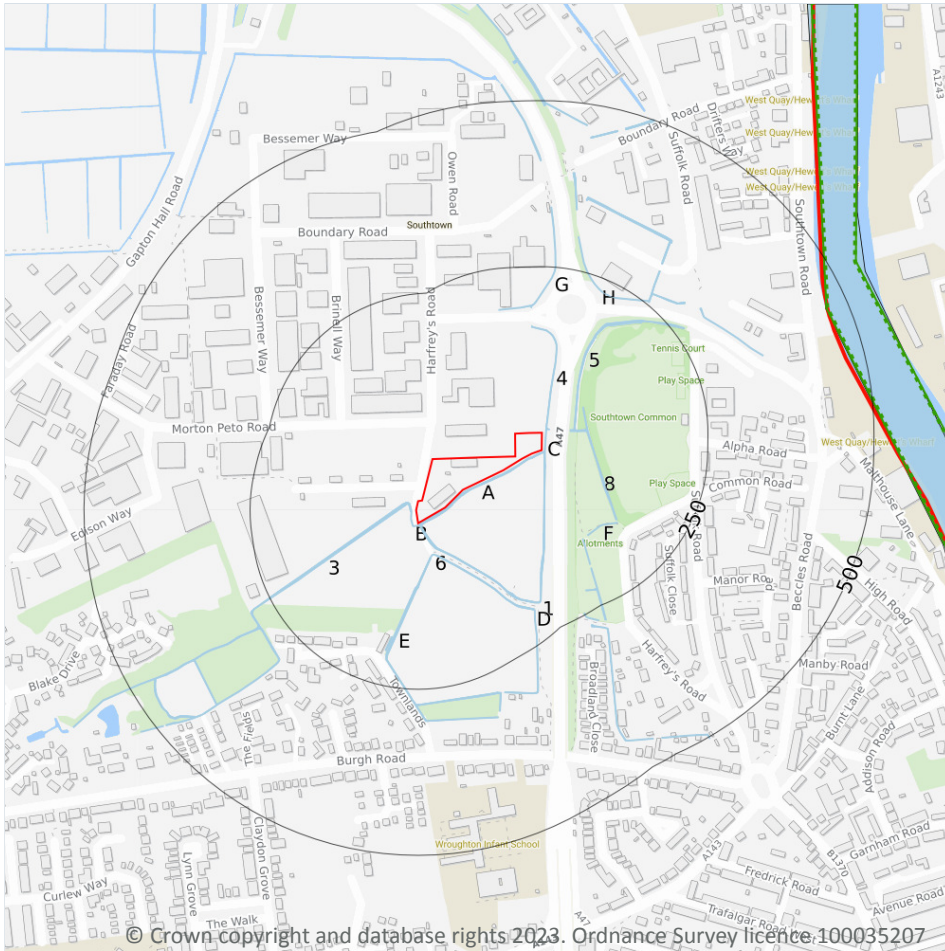
Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.



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

26

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 81**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	2m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
B	3m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
1	4m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	4m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	7m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	7m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
4	8m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	8m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	42m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	48m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	48m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	52m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	54m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	55m S	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
8	67m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	67m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	144m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	146m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	175m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	187m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	192m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	219m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	225m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	229m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	236m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	246m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.



6.2 Surface water features

Records within 250m

10

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 81**

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 81**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	Coastal Catchment	Not part of a river WB catchment	14	Waveney	Broadland Rivers

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

6.4 WFD Surface water bodies

Records identified

0

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.

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



6.5 WFD Groundwater bodies

Records on site	1
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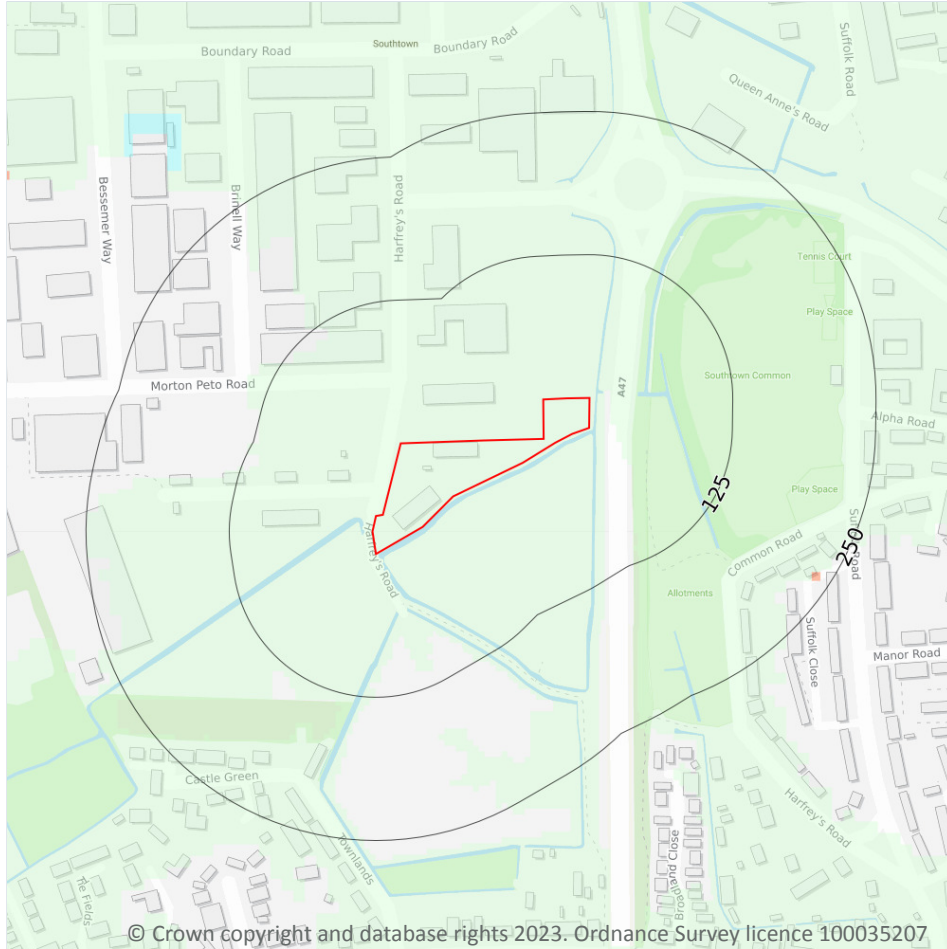
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 81**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Broadland Rivers Chalk & Crag	<u>GB40501G400300</u>	Poor	Poor	Poor	2019

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

1

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).

Features are displayed on the River and coastal flooding map on **page 86**

Distance	Flood risk category
On site	Very Low
0 - 50m	Very Low

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

7.2 Historical Flood Events

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

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

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

7.3 Flood Defences

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

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

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

7.4 Areas Benefiting from Flood Defences

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

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

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

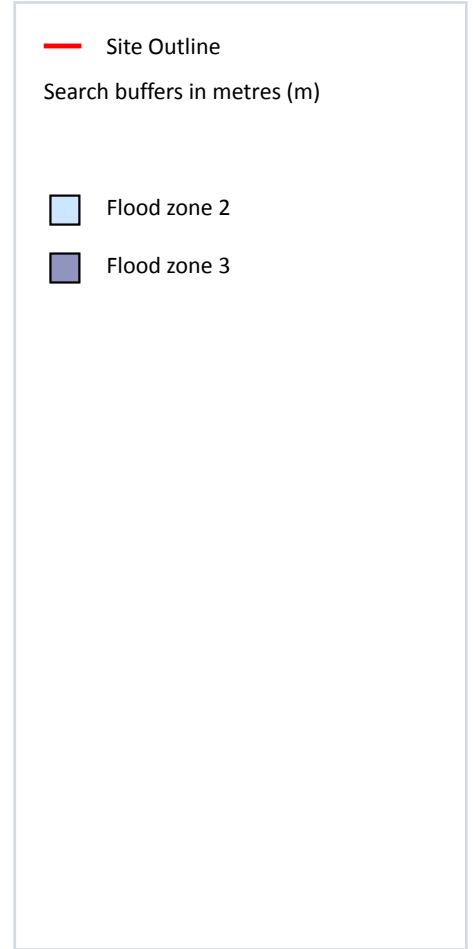
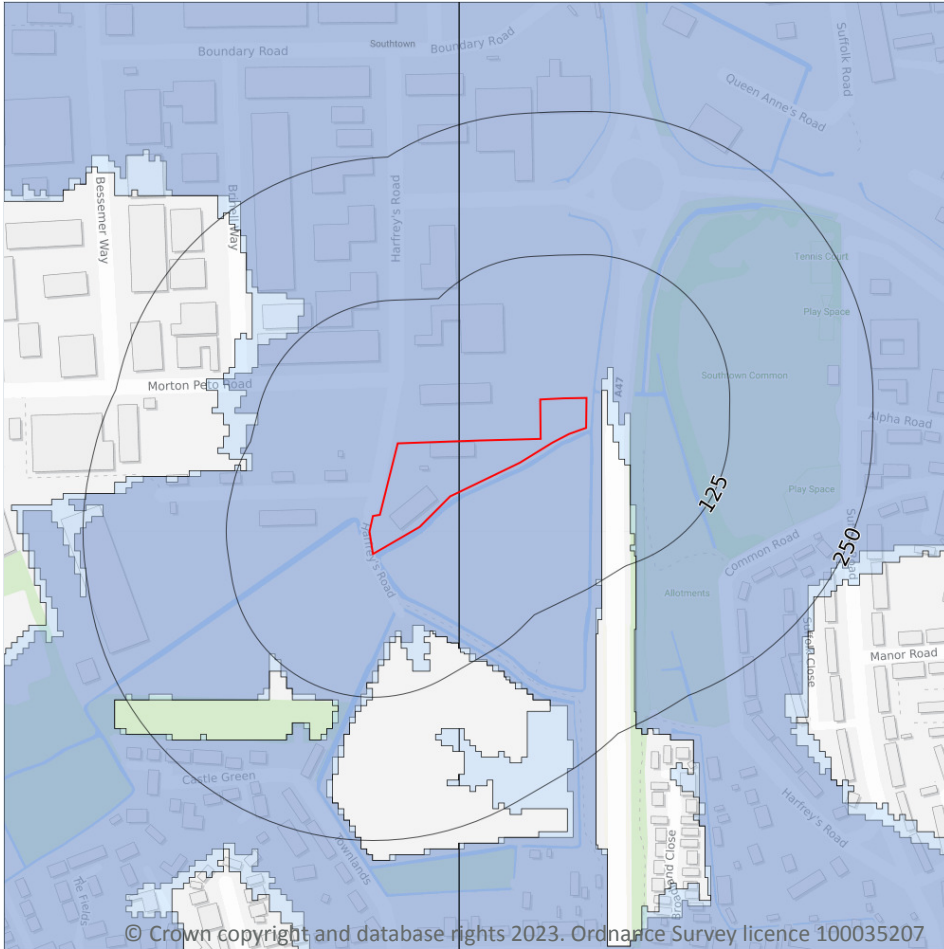
7.5 Flood Storage Areas

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

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

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

River and coastal flooding - Flood Zones



7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on **page 86**

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

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

7.7 Flood Zone 3

Records within 50m

1

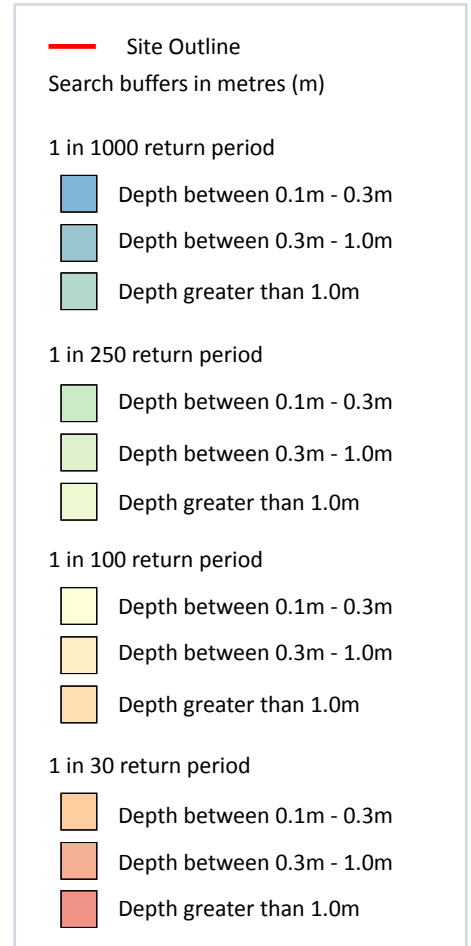
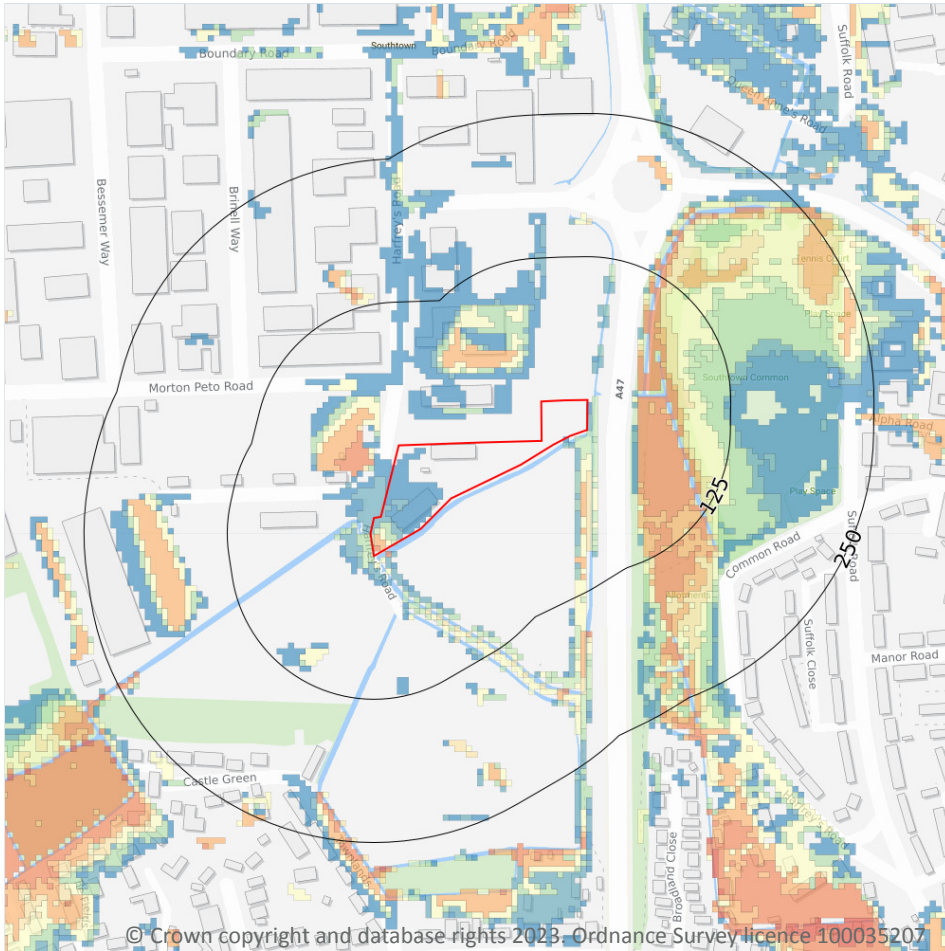
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 86**

Location	Type
On site	Zone 3 - (Fluvial /Tidal Models)

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

8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 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 90**

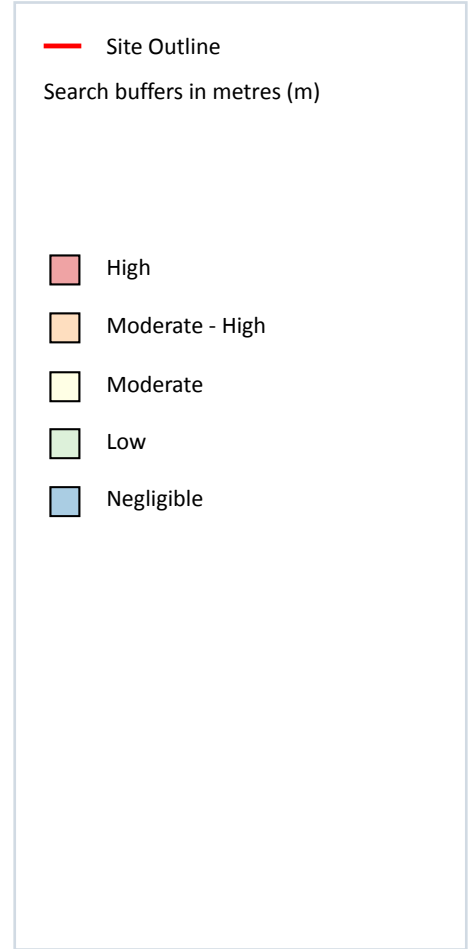
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	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 Ambiental Risk Analytics.

9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

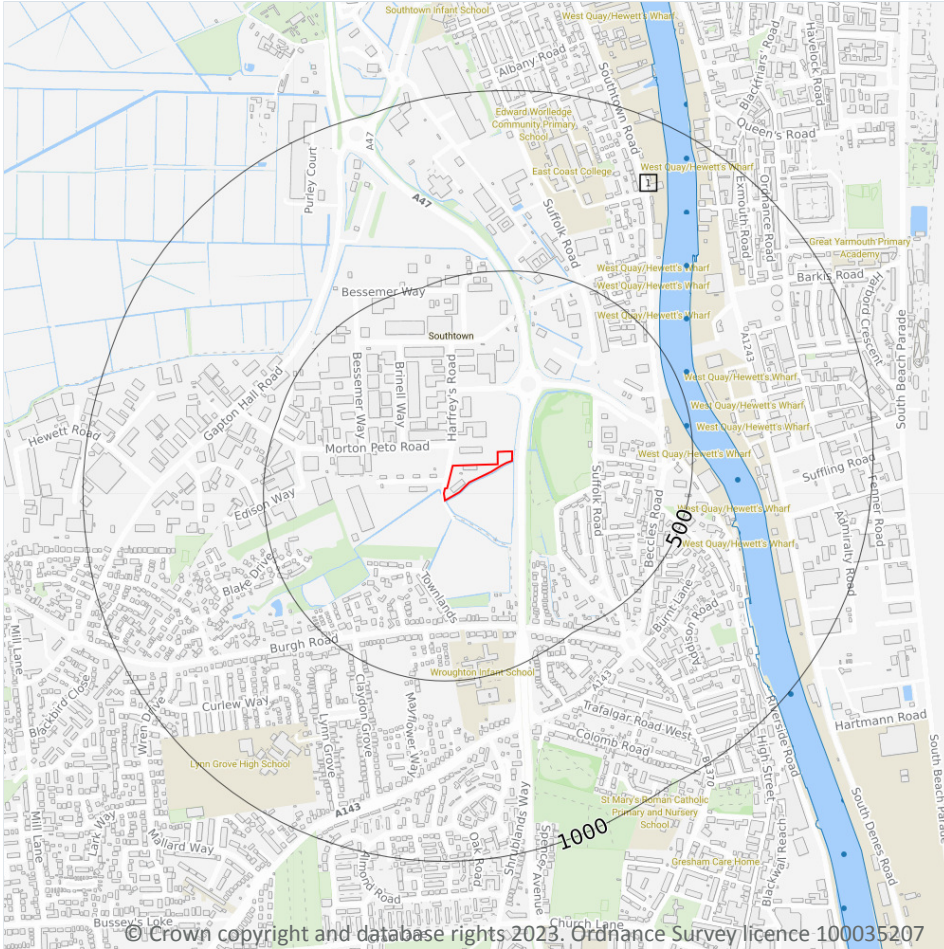
Moderate

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

Features are displayed on the Groundwater flooding map on **page 92**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

1

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.

Features are displayed on the Environmental designations map on **page 93**

ID	Location	Name	Features of interest	Habitat description	Data source
-	1259m E	Southern North Sea	Harbour porpoise.	Marine areas, Sea inlets	Natural England

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

10.4 Special Protection Areas (SPA)

Records within 2000m

2

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.

Features are displayed on the Environmental designations map on **page 93**

ID	Location	Name	Species of interest	Habitat description	Data source
1	464m E	Outer Thames Estuary	Red-throated diver; Common tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes; Marine areas, Sea inlets	Natural England
-	1648m SE	Outer Thames Estuary	Red-throated diver; Common tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes; Marine areas, Sea inlets	Natural England

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



10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

0

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.

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

0

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

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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



10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

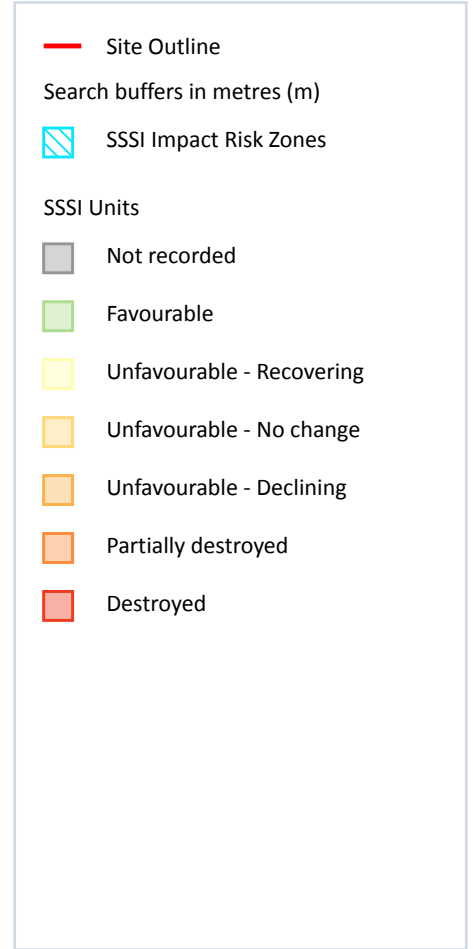
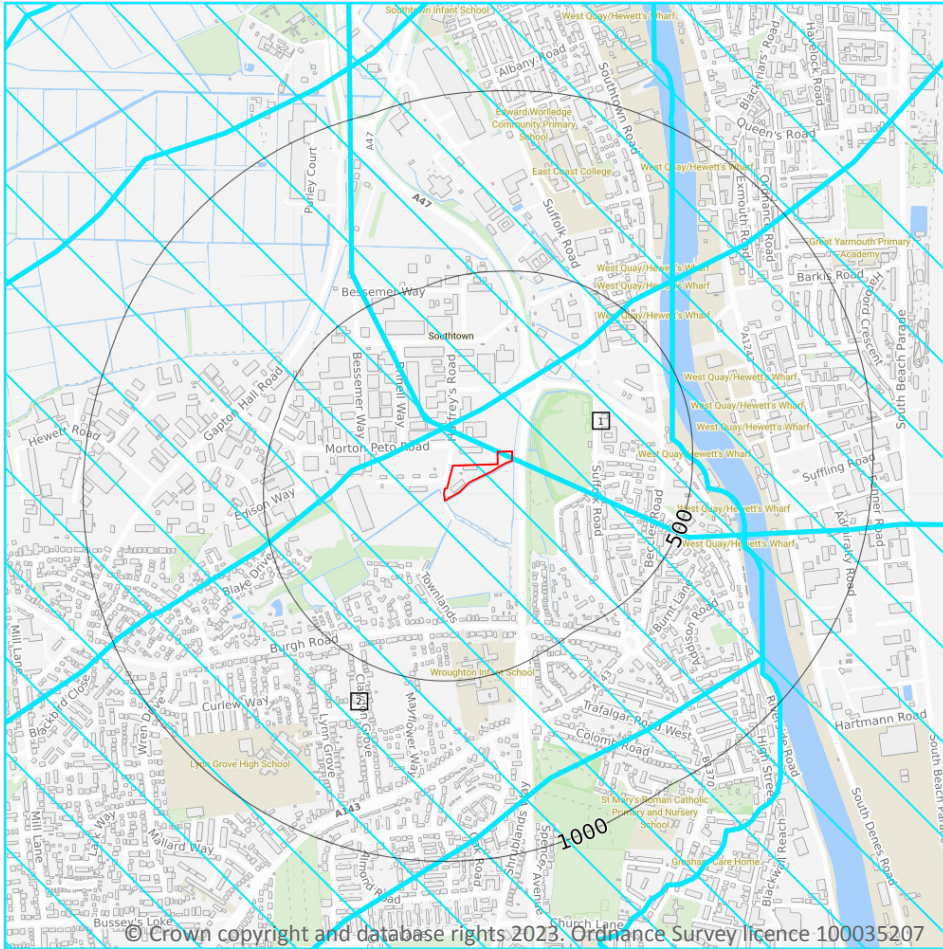
2

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

Location	Name	Type	NVZ ID	Status
On site	Norwich Crag and Gravels	Groundwater	79	Existing
280m N	Norwich Crag and Gravels	Groundwater	79	Existing

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

SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site

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 98**

ID	Location	Type of developments requiring consultation
1	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>Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.</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>Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha.</p> <p>Residential - Residential development of 50 units or more.</p> <p>Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas.</p> <p>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t).</p> <p>Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p> <p>Notes: Strategic solutions for recreational impacts are in place. please contact your local planning authority as they have the information to advise on specific requirements.</p>
2	On site	<p>All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures.</p> <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>Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines.</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>Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha.</p> <p>Residential - Residential development of 10 units or more.</p> <p>Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units.</p> <p>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t).</p> <p>Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p> <p>Notes: Strategic solutions for recreational impacts are in place. please contact your local planning authority as they have the information to advise on specific requirements.</p>

This data is sourced from Natural England.



10.18 SSSI Units

Records within 2000m

0

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

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



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

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

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

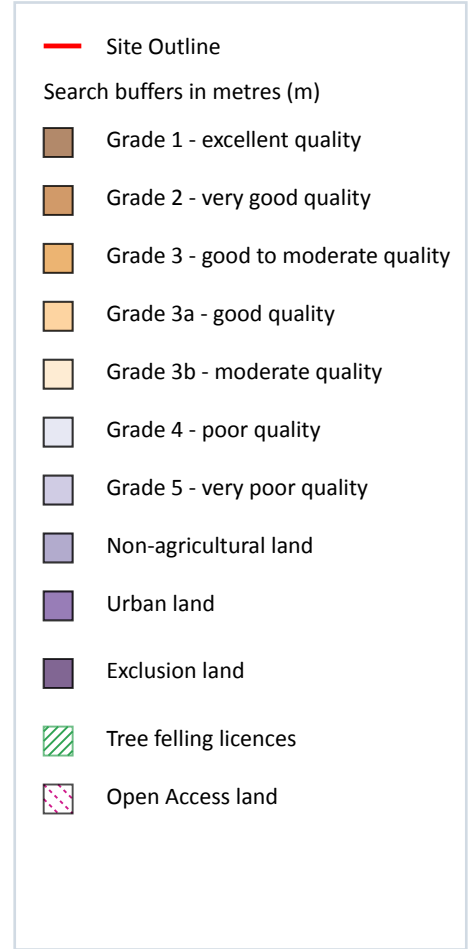
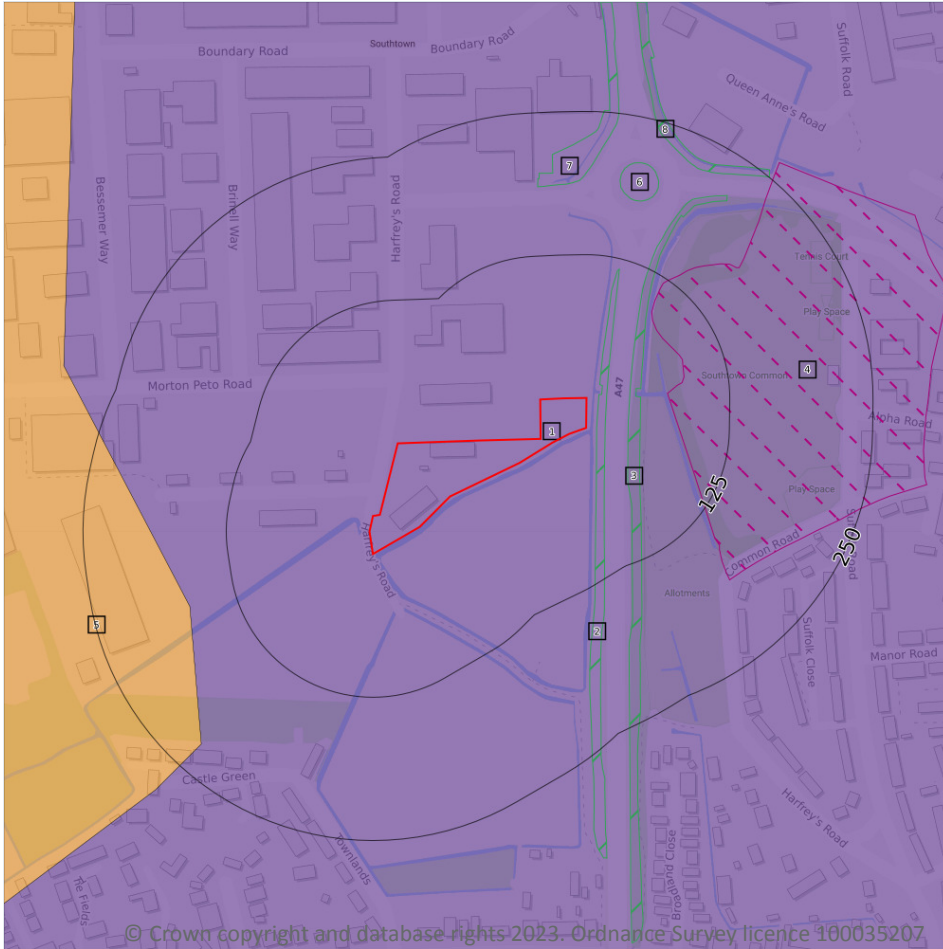
0

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

2

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

Features are displayed on the Agricultural designations map on **page 103**

ID	Location	Classification	Description
1	On site	Urban	-
5	166m SW	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.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

1

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

Features are displayed on the Agricultural designations map on **page 103**

ID	Location	Name	Classification	Other relevant legislation
4	71m E	Southtown Common	Section 15 Land	1899 CA

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

12.3 Tree Felling Licences

Records within 250m

5

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.

Features are displayed on the Agricultural designations map on **page 103**

ID	Location	Description	Reference	Application date
2	9m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-
3	37m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-
6	177m NE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
7	186m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-
8	223m NE	Selective Fell/Thin (Unconditional)	018/366/15-16	-

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

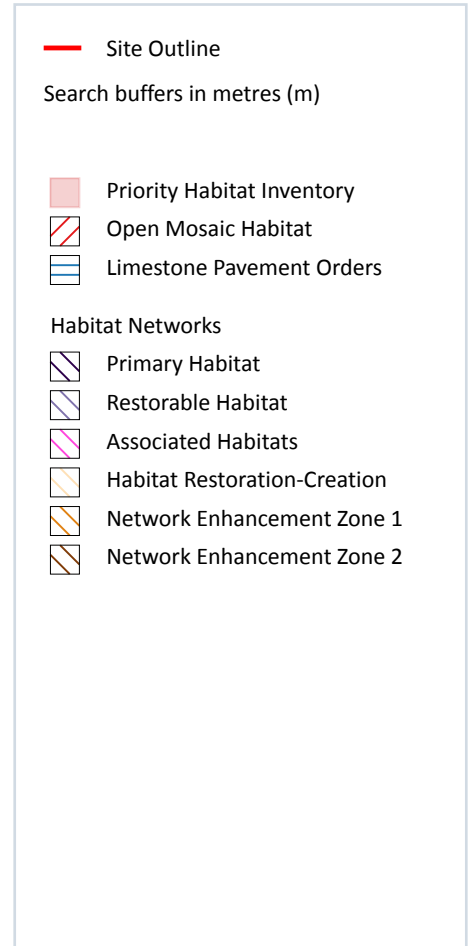
Records within 250m

0

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

This data is sourced from Natural England.

13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

1

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

Features are displayed on the Habitat designations map on **page 106**

ID	Location	Main Habitat	Other habitats
2	210m SW	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	1
----------------------------	----------

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.

Features are displayed on the Habitat designations map on **page 106**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	On site	NLUD Ref: 261800199	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

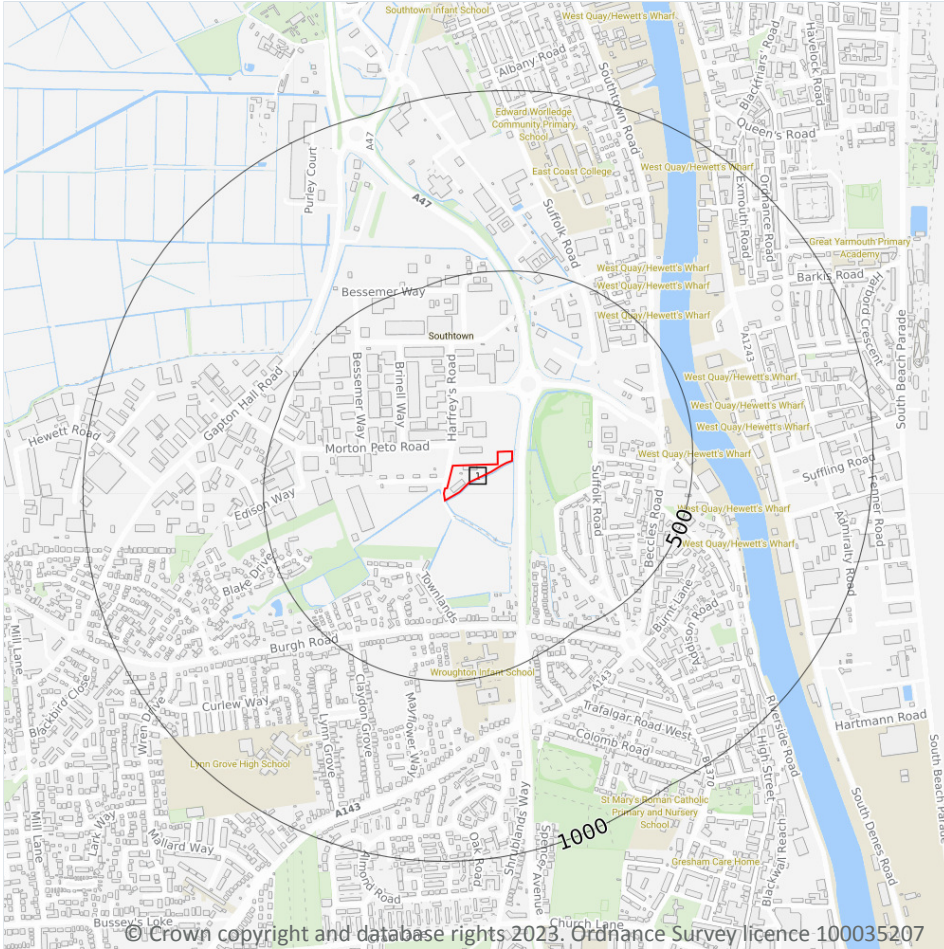
13.4 Limestone Pavement Orders

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

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



— Site Outline
 Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 108**

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

This data is sourced from the British Geological Survey.



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

14.2 Artificial and made ground (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

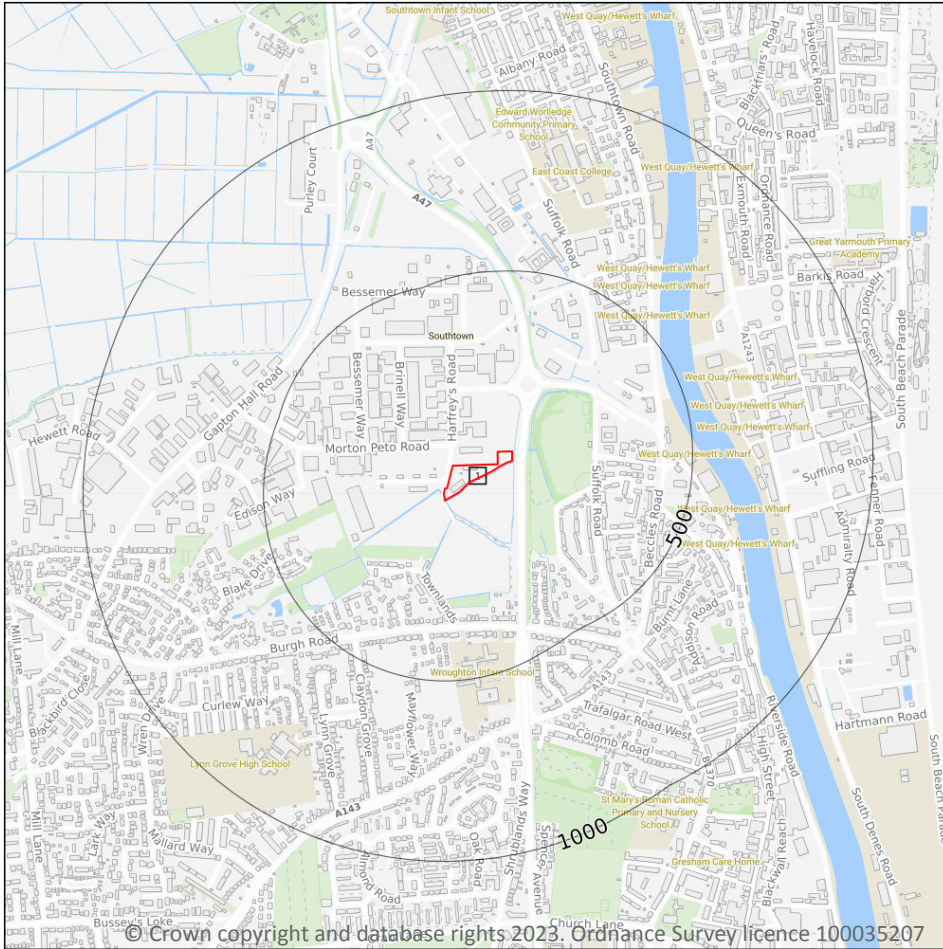
0

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

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
 Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

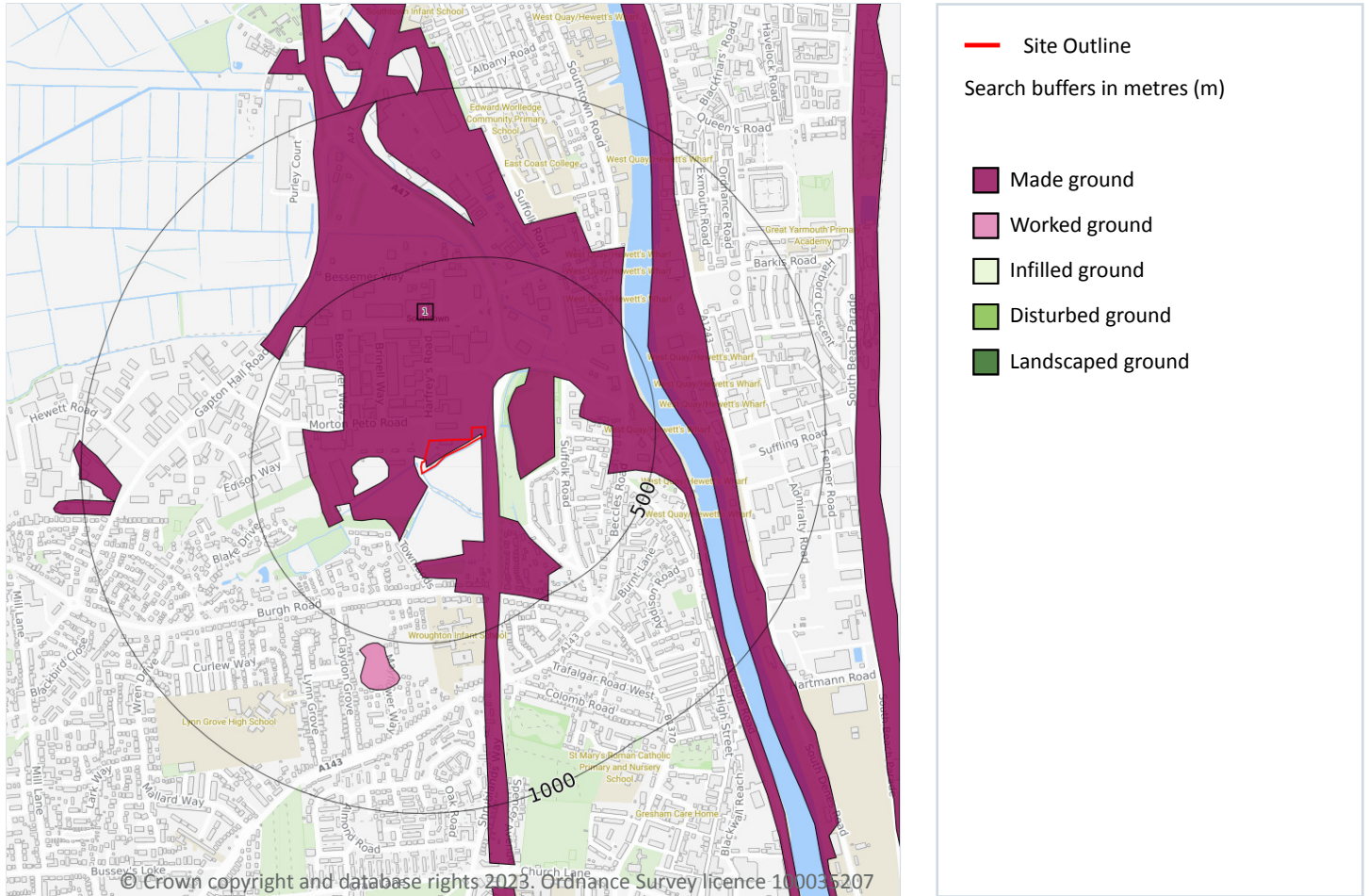
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 112**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	EW162_great_yarmouth_v4

This data is sourced from the British Geological Survey.



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



15.2 Artificial and made ground (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 113**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

1

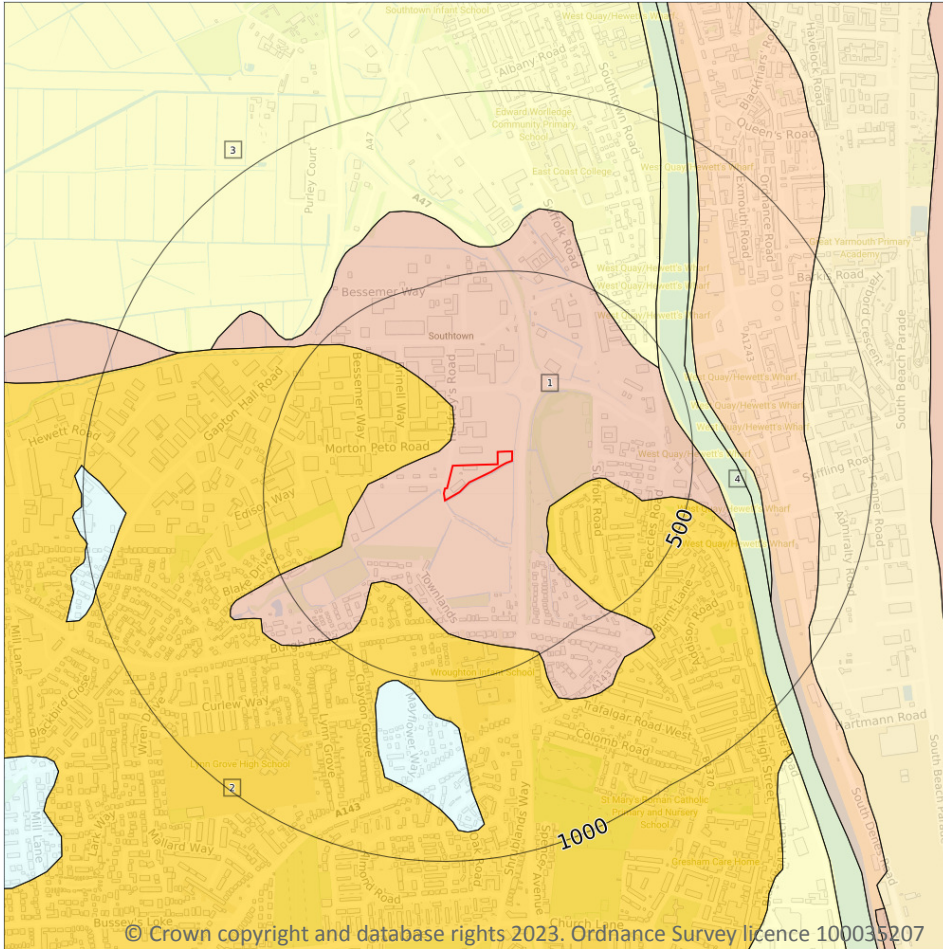
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).


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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
-  Landslip (50k)
- Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

4

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 115**

ID	Location	LEX Code	Description	Rock description
1	On site	BRYD-P	BREYDON FORMATION	PEAT
2	55m NW	HPGL-S	HAPPISBURGH GLACIGENIC FORMATION	SAND
3	443m NE	BRYD-XCZ	BREYDON FORMATION	CLAY AND SILT
4	454m NE	TRD-XCZ	TIDAL RIVER OR CREEK DEPOSITS	CLAY AND SILT



This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

1

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

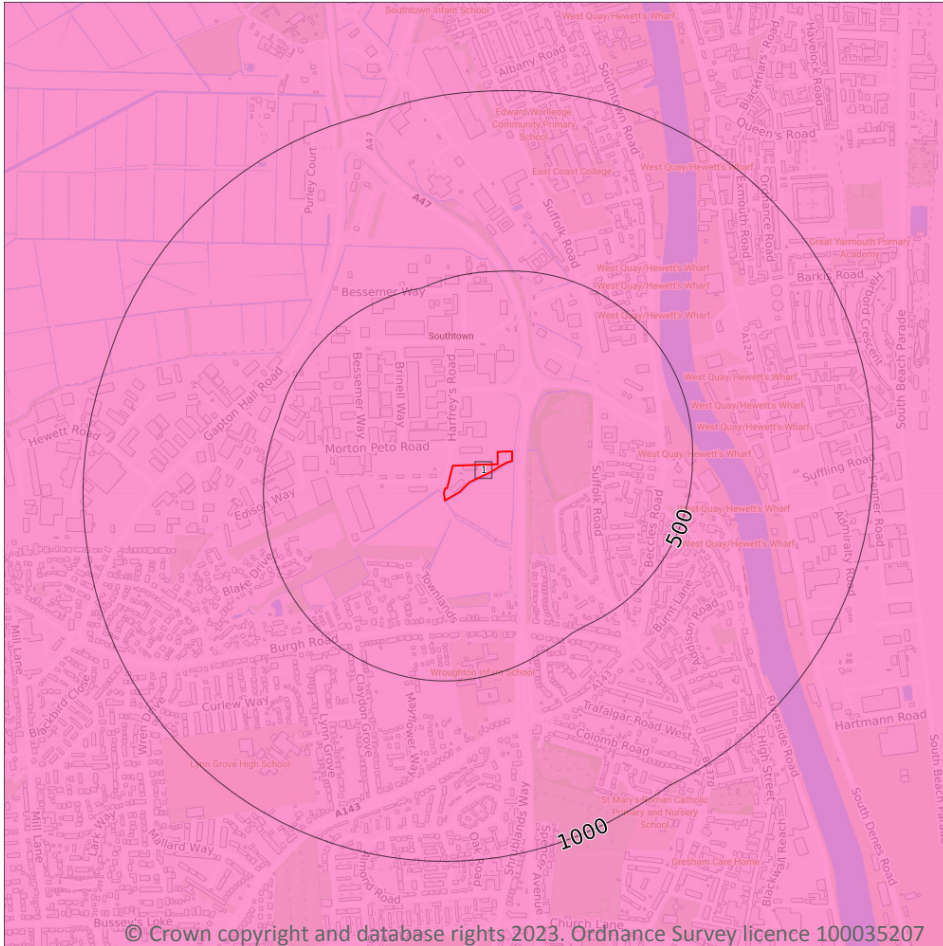
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



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

15.8 Bedrock geology (50k)

Records within 500m

1

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 117**

ID	Location	LEX Code	Description	Rock age
1	On site	CRAG-XSV	CRAG GROUP - SAND AND GRAVEL	-

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

1

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

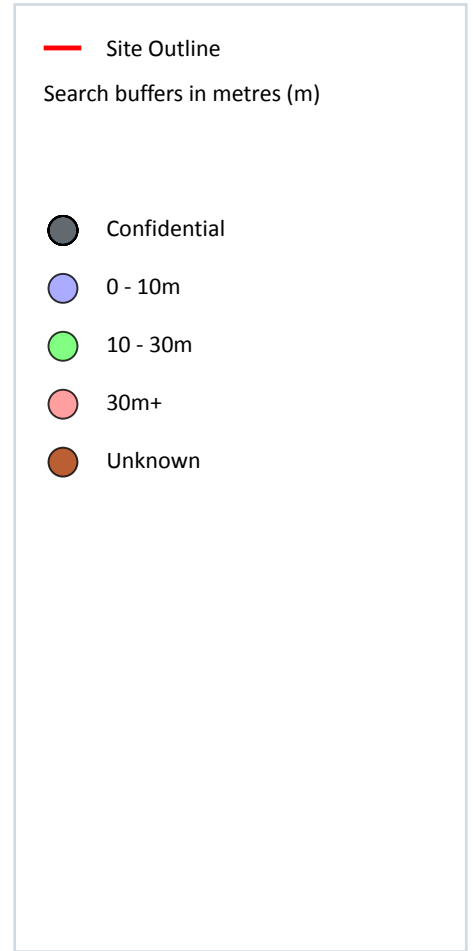
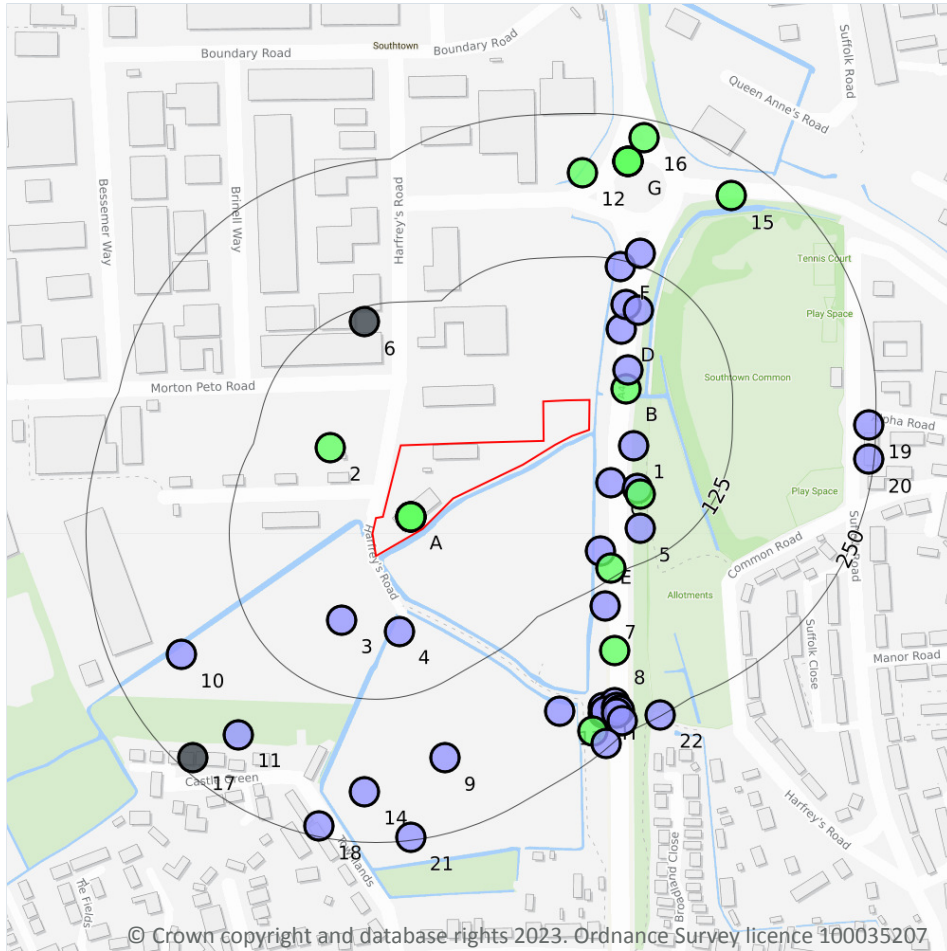
0

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



16 Boreholes



16.1 BGS Boreholes

Records within 250m

52

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

Features are displayed on the Boreholes map on **page 119**

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	651850 305600	HARFREYS RD GT YARMOUTH 1	20.0	N	520455
A	On site	651850 305600	HARFREYS RD GT YARMOUTH 4	20.0	N	520458
A	On site	651850 305600	HARFREYS RD GT YARMOUTH 2	20.0	N	520456

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	651850 305600	HARFREYS RD GT YARMOUTH 3	20.0	N	520457
B	33m NE	652038 305712	A12/A47 GORLESTON RELIEF RD REPORT	14.3	N	519918
1	42m E	652045 305662	A47 GORLESTON RELIEF ROAD	7.8	N	519573
B	43m NE	652040 305728	A47 GORLESTON RELIEF ROAD	6.2	N	519576
C	50m E	652025 305630	A47/A12 GORLESTON RELIEF ROAD	9.5	N	519563
2	59m W	651780 305660	GT YAR BOR CNCL A12 WESTERN BY PASS	10.7	N	519757
3	63m SW	651790 305510	HARFREYS FARM GT YARMOUTH 13	7.7	N	520503
C	66m E	652048 305625	A47 GORLESTON RELIEF ROAD	8.0	N	519574
D	68m NE	652034 305764	A47/A12 GORLESTON RELIEF ROAD	7.05	N	519564
4	69m S	651840 305500	HARFREYS FARM GT YARMOUTH 1	9.0	N	520491
C	71m E	652050 305620	A12 GORLESTON RELIEF RD GT YAR S BY PASS	12.0	N	519917
D	89m NE	652038 305785	A12 GORLESTON RELIEF RD GT YAR S BY PASS	2.3	N	519906
D	89m NE	652049 305780	A47 GORLESTON RELIEF ROAD	6.2	N	519575
5	97m E	652050 305590	A47/A12 GORLESTON RELIEF ROAD	5.0	N	519571
E	100m SE	652016 305570	A47 GORLESTON RELIEF ROAD	6.1	N	519572
6	112m NW	651810 305770	HARFREYS ROAD GRT YARMOUTH 1	-	Y	N/A
E	117m SE	652025 305555	A12 GORLESTON RELIEF RD GT YAR S BY PASS	14.7	N	519916
F	119m NE	652033 305818	A47 GORLESTON RELIEF ROAD	5.0	N	519577
F	135m NE	652050 305830	A47 GORLESTON RELIEF ROAD	4.5	N	519578
7	143m SE	652020 305522	A47/A12 GORLESTON RELIEF ROAD	6.2	N	519562
8	181m SE	652028 305483	A12 GORLESTON RELIEF RD GT YAR S BY PASS CPT 129	12.3	N	519915
9	186m S	651880 305390	HARFREYS FARM GT YARMOUTH 2	9.0	N	520492
10	190m SW	651650 305480	HARFREYS FARM GT YARMOUTH 8	7.9	N	520498
11	197m SW	651700 305410	HARFREYS FARM GT YARMOUTH 7	6.5	N	520497
12	198m N	652000 305900	YARMOUTH	18.6	N	12846759
13	199m S	651980 305430	HARFREYS FARM GT YARMOUTH 3	8.0	N	520493
14	206m S	651810 305360	HARFREYS FARM GT YARMOUTH 12	6.4	N	520502
G	211m NE	652040 305910	CENTRAL ELECTRICITY BOARD GREAT YARMOUTH	16.76	N	520538

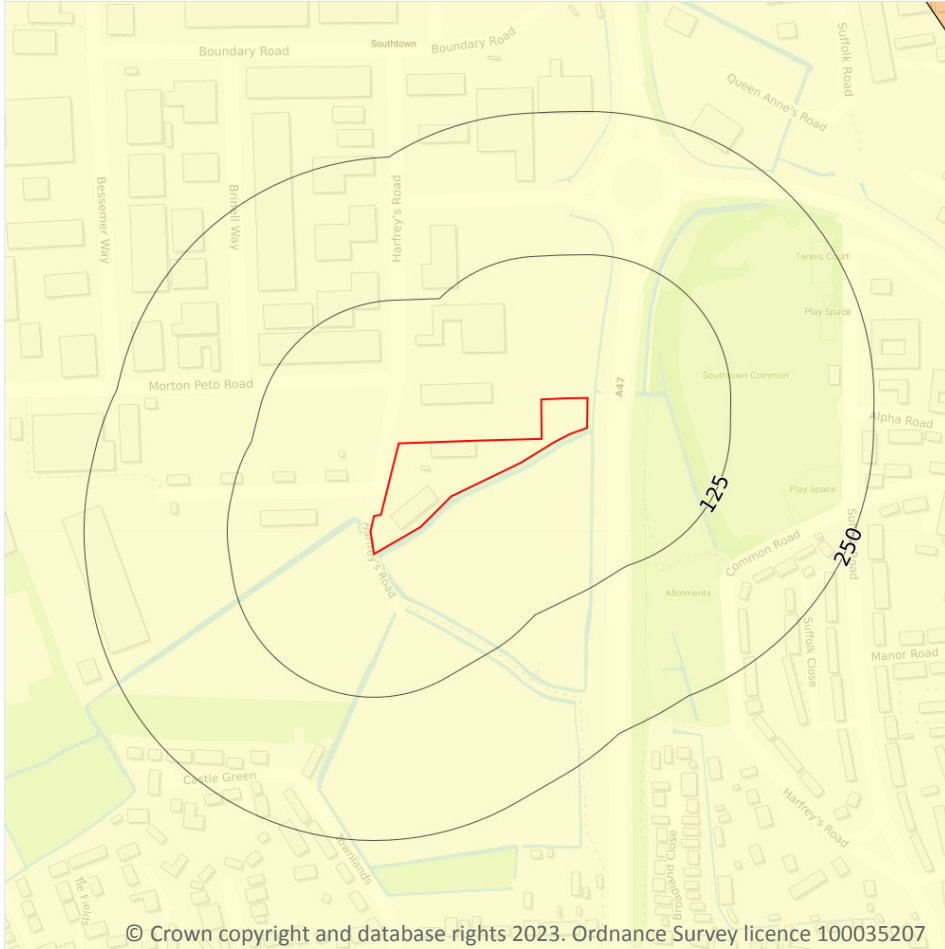


ID	Location	Grid reference	Name	Length	Confidential	Web link
G	211m NE	652040 305910	GORING CEB GREAT YARMOUTH	20.12	N	519543
G	211m NE	652040 305910	CENTRAL ELECTRICITY BOARD GREAT YARMOUTH	17.67	N	520558
G	211m NE	652040 305910	CENTRAL ELECTRICITY BOARD GREAT YARMOUTH	20.11	N	520537
15	217m NE	652130 305880	A12 GT YARMOUTH WESTERN BY-PASS 318	15.0	N	520004
H	221m SE	652018 305434	A47/A12 GORLESTON RELIEF ROAD	0.6	N	519569
H	222m SE	652028 305438	A12/A47 GORLESTON RELIEF RD REPORT	1.5	N	519920
H	225m SE	652018 305429	A47/A12 GORLESTON RELIEF ROAD	10.0	N	519570
H	225m SE	652020 305430	GT YAR BOR CNCL A12 WESTERN BY PASS DKM2	6.4	N	519756
H	226m SE	652030 305434	A12 GORLESTON RELIEF RD GT YAR S BY PASS	0.8	N	519905
H	230m SE	652032 305431	A12/A47 GORLESTON RELIEF RD REPORT	1.8	N	519919
H	231m SE	652030 305429	A12/A47 GORLESTON RELIEF RD REPORT	1.8	N	519933
H	231m SE	652009 305413	A12 GORLESTON RELIEF RD GT YAR S BY PASS	13.7	N	519914
16	234m NE	652054 305931	A12 GT YAR W BY PASS DOT REPORT	17.0	N	519960
17	238m SW	651660 305390	BURGH ROAD GORLESTON TP 2	-	Y	N/A
H	239m SE	652035 305422	A12 GORLESTON RELIEF RD GT YAR S BY PASS	4.3	N	519904
18	241m S	651770 305330	HARFREYS FARM GT YARMOUTH 6	6.4	N	520496
19	244m E	652250 305680	SUFFOLK ROAD 26	7.62	N	519863
20	246m E	652250 305650	GREAT YARMOUTH NO 5	7.62	N	519514
H	247m SE	652021 305402	A12/A47 GORLESTON RELIEF RD REPORT	2.0	N	519930
21	248m S	651850 305320	HARFREYS FARM GT YARMOUTH 11	6.7	N	520501
22	249m SE	652068 305427	A12/A47 GORLESTON RELIEF RD REPORT	8.05	N	519921

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m

1

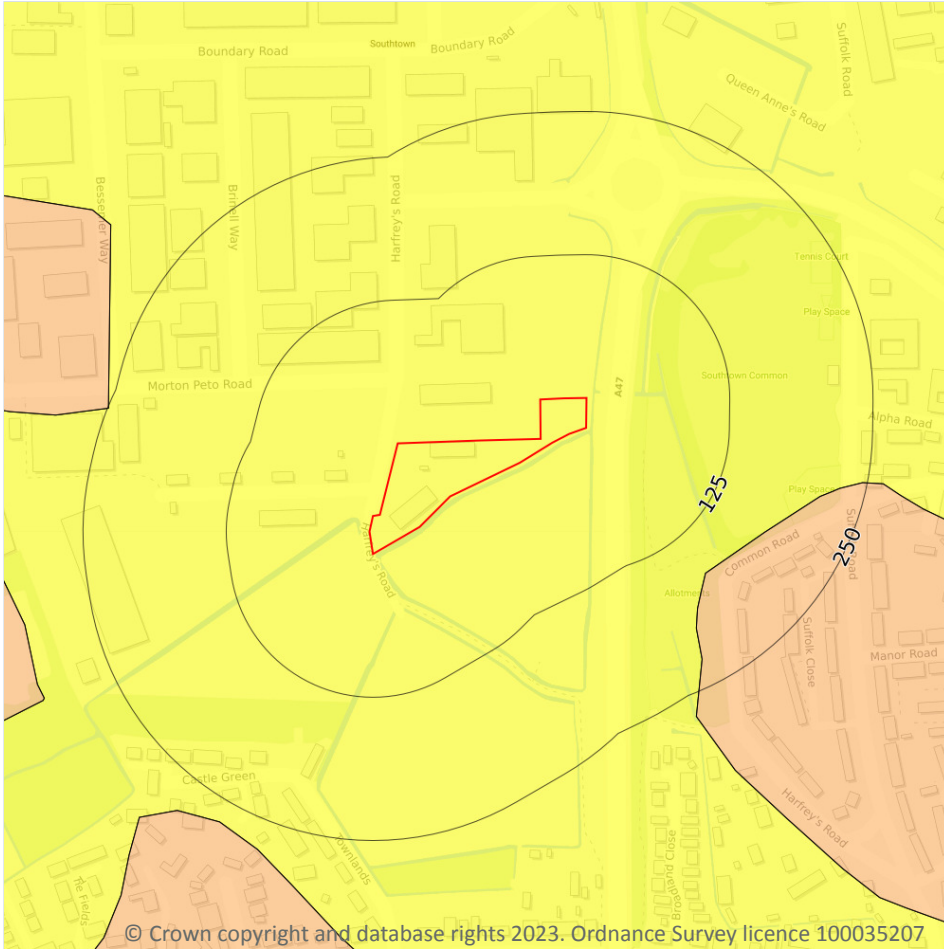
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 122**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



— Site Outline
 Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m

1

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

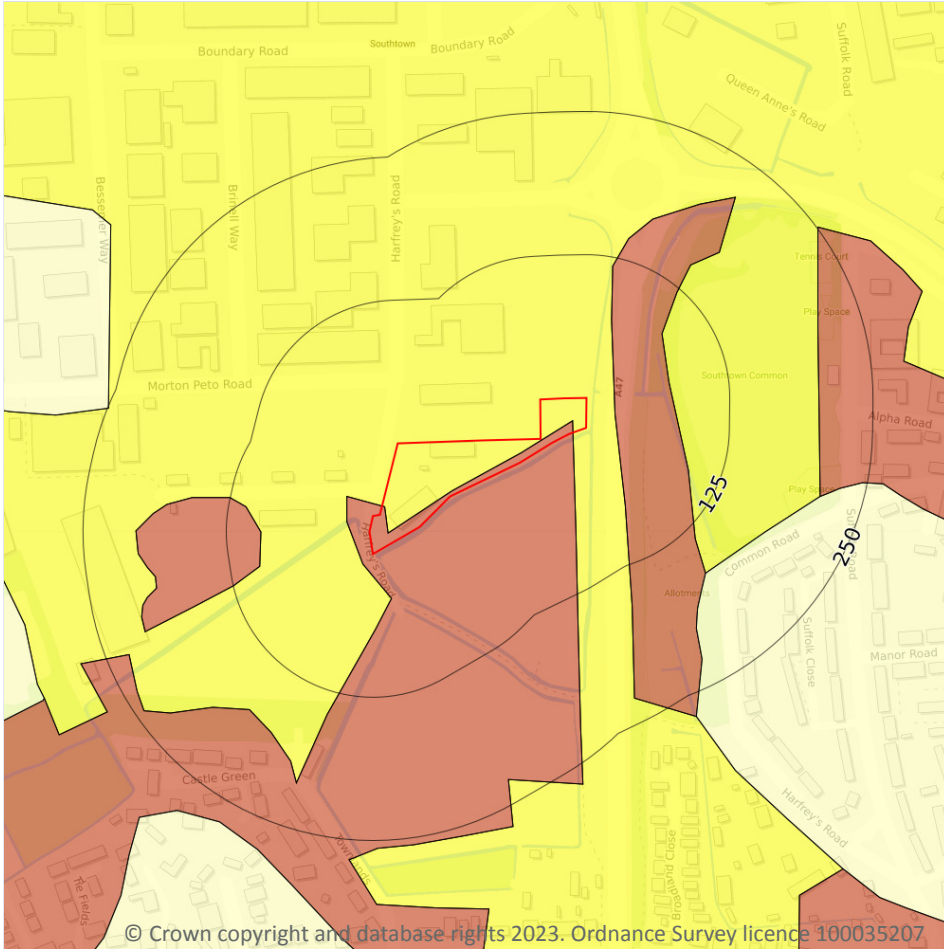
Features are displayed on the Natural ground subsidence - Running sands map on **page 123**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m

3

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

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

Location	Hazard rating	Details
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.
On site	High	Highly compressible strata present. Significant constraint on land use depending on thickness.

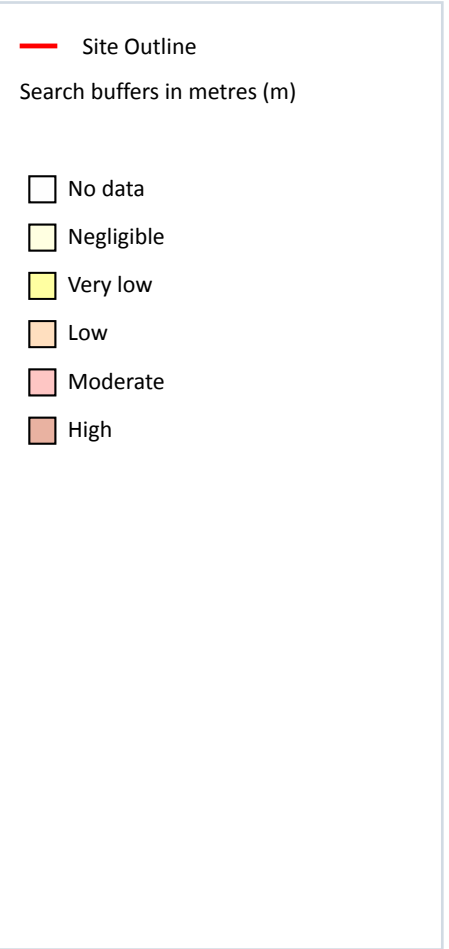
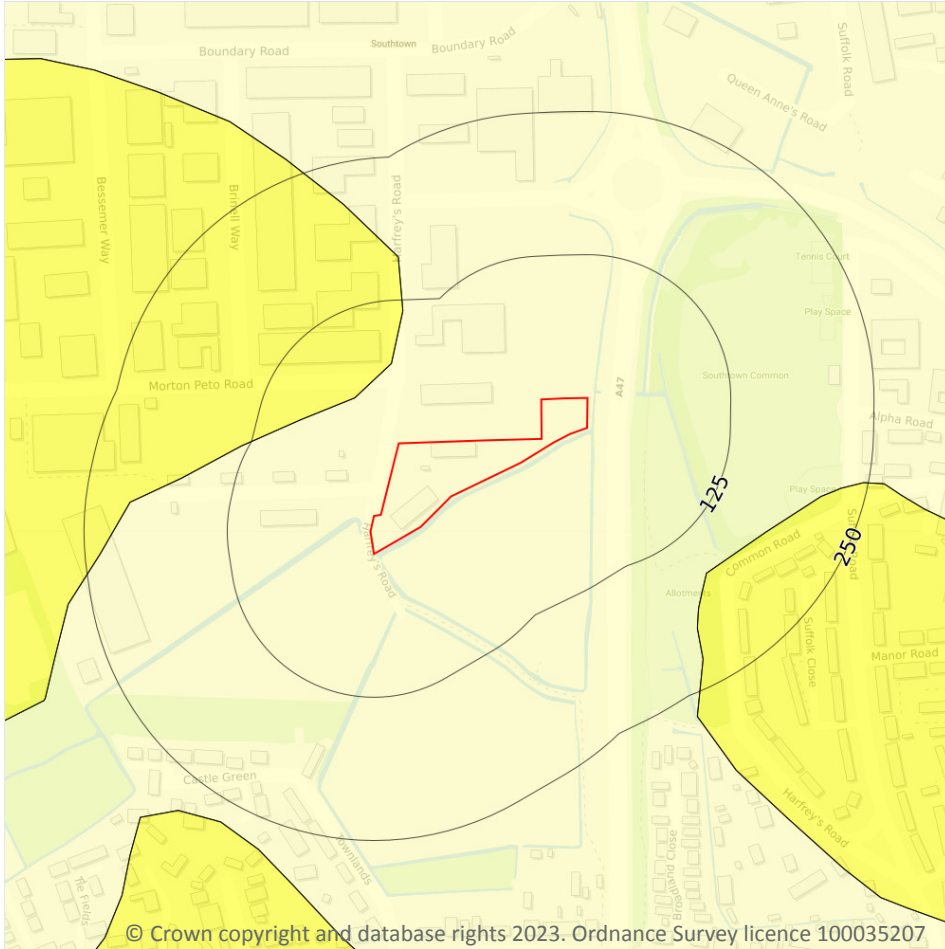


Location	Hazard rating	Details
24m NE	High	Highly compressible strata present. Significant constraint on land use depending on thickness.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

1

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

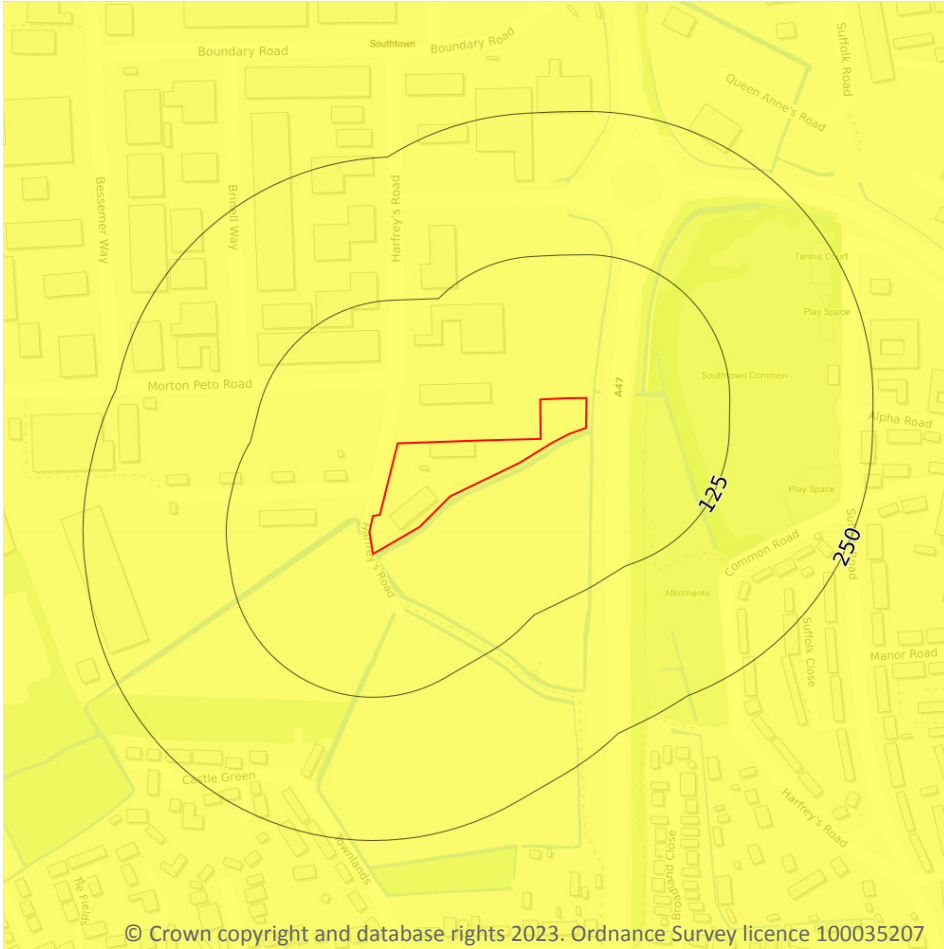
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 126**

Location	Hazard rating	Details
----------	---------------	---------

On site **Negligible** **Deposits with potential to collapse when loaded and saturated are believed not to be present.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Landslides map on **page 127**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

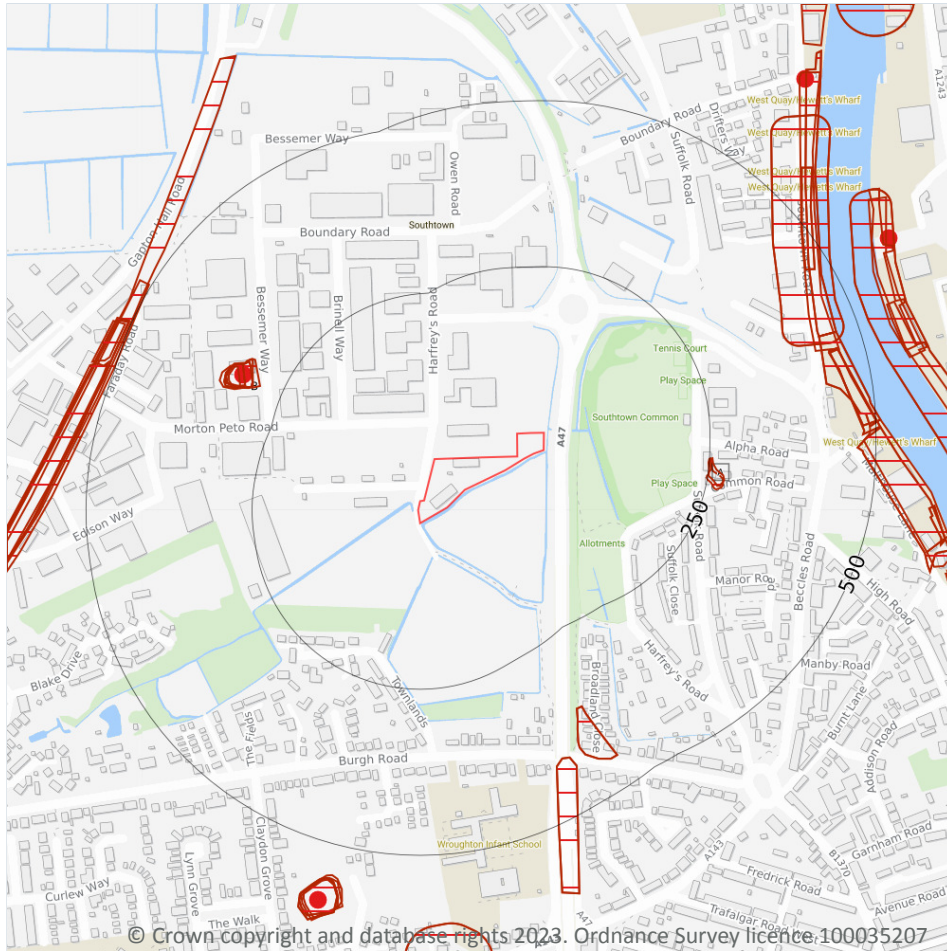
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 128**

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



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

18.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

1

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 130**

ID	Location	Details	Description
B	315m NW	Name: Harfrey's Farm Pit Address: GREAT YARMOUTH, Norfolk Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

1

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 130**

ID	Location	Land Use	Year of mapping	Mapping scale
A	249m E	Pond	1901	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

0

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

This data is sourced from Ordnance Survey/Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

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

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site

0

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

This data is sourced from the Coal Authority.



18.10 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

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

18.11 Gypsum areas

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

This data is sourced from British Gypsum.

18.12 Tin mining

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

This data is sourced from Groundsure.

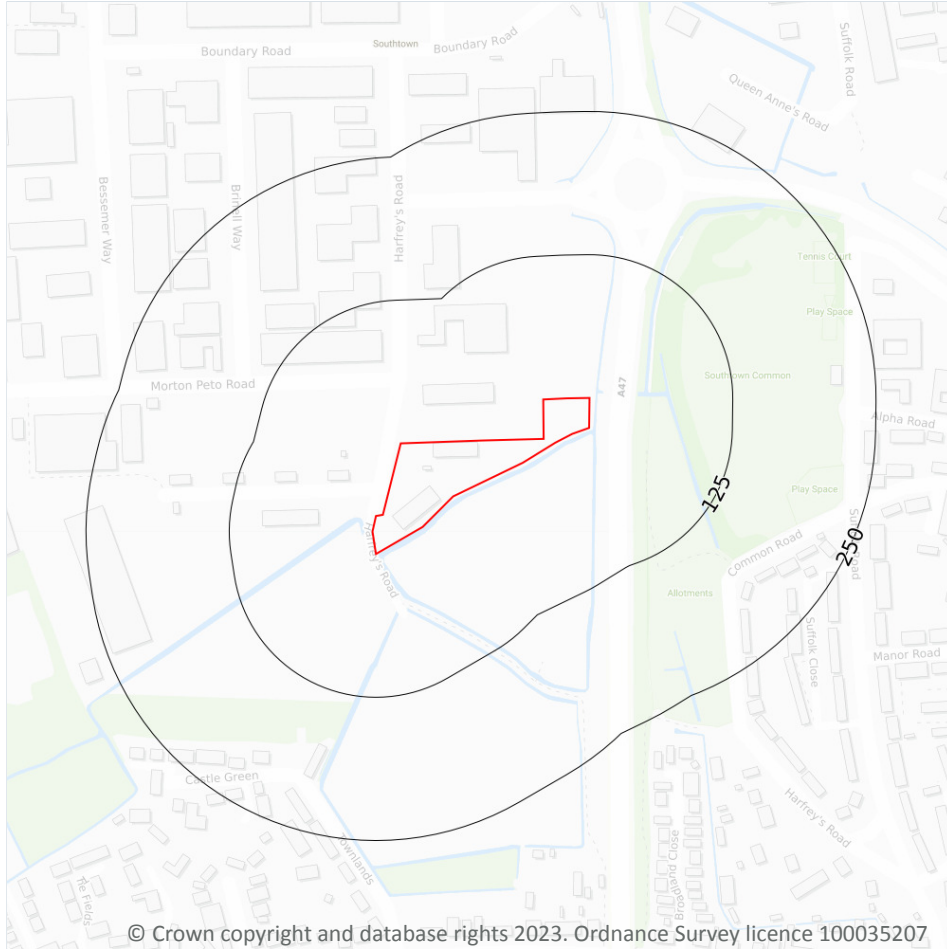
18.13 Clay mining

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

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

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

19 Radon



— Site Outline
 Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site

1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

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

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



This data is sourced from the British Geological Survey and UK Health Security Agency.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

2

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

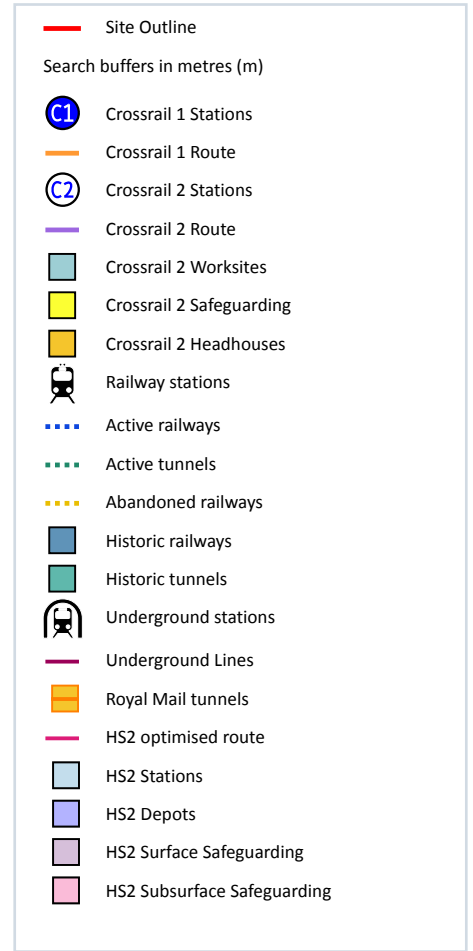
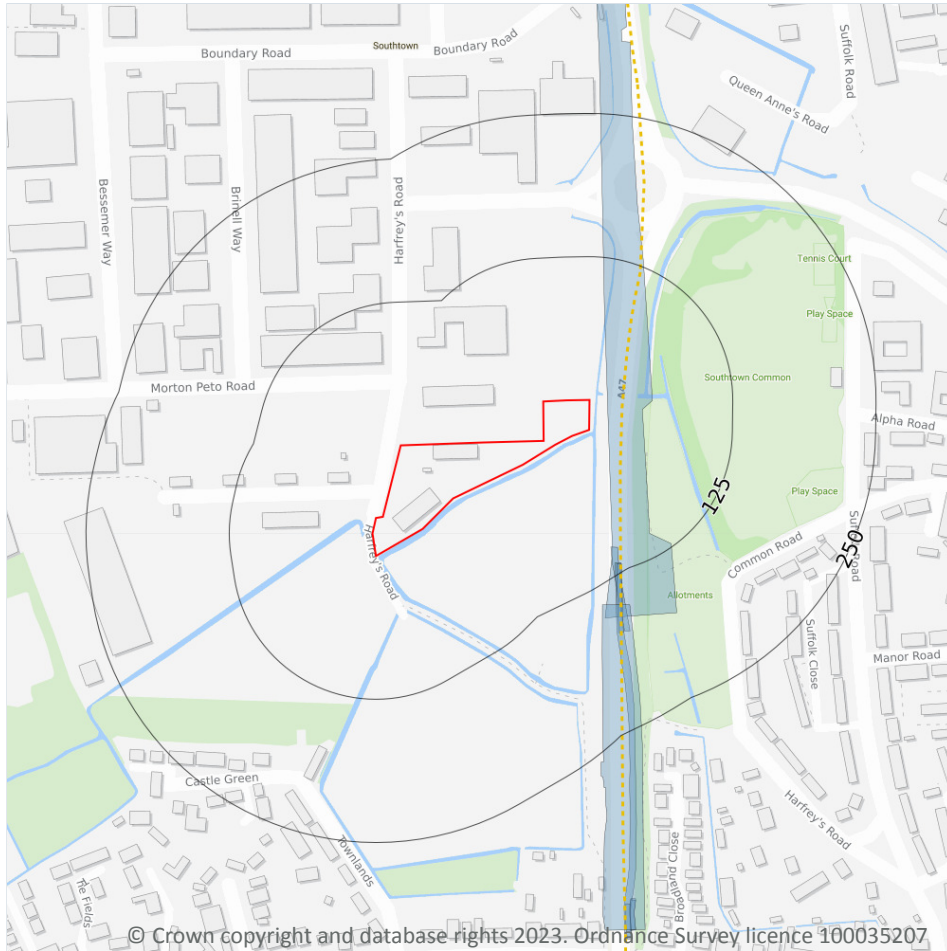
0

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

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

5

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

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

Location	Land Use	Year of mapping	Mapping scale
16m NE	Railway	1946	-
102m SE	Railway Sidings	1958	2500
115m SE	Railway Sidings	1927	2500
117m SE	Railway Sidings	1905	2500
141m SE	Railway Sidings	1938	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.



21.6 Historical railways

Records within 250m

2

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

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

Location	Description
28m E	Abandoned
120m NE	Dismantled

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.



21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 ltd.



Data providers

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

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