



Appendix C

Environmental Data

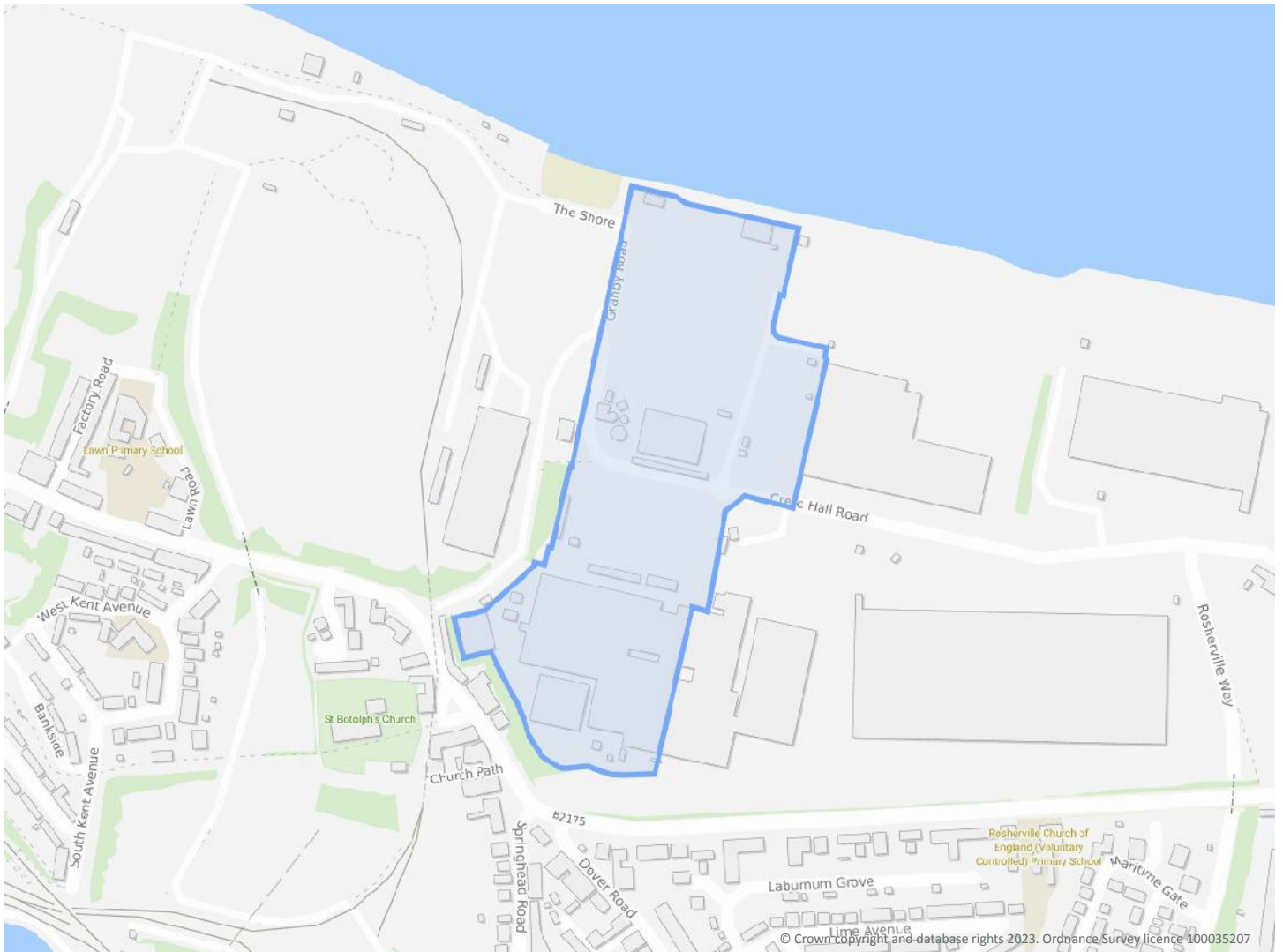
TANK 249M FROM KIMBERLY CLARK LTD, NORTHFLEET MILL, CRETE HALL ROAD 23M FROM UNNAMED ROAD, CRETE HALL ROAD, NORTHFLEET, GRAVESEND, DA11 9AD

Order Details

Date: 10/05/2023
Your ref: G_22_049_PONo203
Our Ref: GS-KHL-FVQ-DA4-TKD

Site Details

Location: 562676 174415
Area: 10.14 ha
Authority: [Gravesham Borough Council](#) ↗



Summary of findings

[p. 2 >](#)

Aerial image

[p. 8 >](#)

OS MasterMap site plan

N/A: >10ha

groundsure.com/insightuserguide ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
13 >	1.1 >	Historical industrial land uses >	80	56	155	350	-
37 >	1.2 >	Historical tanks >	14	1	21	59	-
40 >	1.3 >	Historical energy features >	1	1	36	25	-
43 >	1.4 >	Historical petrol stations >	0	0	0	0	-
43 >	1.5 >	Historical garages >	0	1	1	4	-
44 >	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
45 >	2.1 >	Historical industrial land uses >	114	66	218	463	-
76 >	2.2 >	Historical tanks >	19	1	32	88	-
82 >	2.3 >	Historical energy features >	2	1	50	34	-
85 >	2.4 >	Historical petrol stations >	0	0	0	0	-
85 >	2.5 >	Historical garages >	0	2	3	5	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
87 >	3.1 >	Active or recent landfill >	0	0	0	0	-
87 >	3.2 >	Historical landfill (BGS records) >	1	0	0	0	-
88 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	0	2	-
88 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	3	-
89 >	3.5 >	Historical waste sites >	0	0	0	0	-
89 >	3.6 >	Licensed waste sites >	0	0	0	5	-
91 >	3.7 >	Waste exemptions >	1	4	10	2	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
94 >	4.1 >	Recent industrial land uses >	10	4	23	-	-
96 >	4.2 >	Current or recent petrol stations >	0	0	0	0	-
97 >	4.3 >	Electricity cables >	0	9	18	7	-
99 >	4.4 >	Gas pipelines >	0	0	0	0	-
100 >	4.5 >	Sites determined as Contaminated Land >	0	0	0	0	-



100	>	4.6	>	Control of Major Accident Hazards (COMAH)	>	0	0	0	0	-
100	>	4.7	>	Regulated explosive sites	>	0	0	0	0	-
100	>	4.8	>	Hazardous substance storage/usage	>	1	0	0	0	-
101	>	4.9	>	Historical licensed industrial activities (IPC)	>	0	0	2	0	-
101	>	4.10	>	Licensed industrial activities (Part A(1))	>	3	0	9	1	-
103	>	4.11	>	Licensed pollutant release (Part A(2)/B)	>	0	0	1	1	-
104	>	4.12	>	Radioactive Substance Authorisations	>	0	0	0	0	-
104	>	4.13	>	Licensed Discharges to controlled waters	>	0	2	7	6	-
106	>	4.14	>	Pollutant release to surface waters (Red List)	>	0	0	0	0	-
106	>	4.15	>	Pollutant release to public sewer	>	0	0	0	0	-
106	>	4.16	>	List 1 Dangerous Substances	>	0	0	4	1	-
107	>	4.17	>	List 2 Dangerous Substances	>	0	0	1	0	-
107	>	4.18	>	Pollution Incidents (EA/NRW)	>	1	2	10	3	-
109	>	4.19	>	Pollution inventory substances	>	0	0	2	0	-
111	>	4.20	>	Pollution inventory waste transfers	>	0	0	1	0	-
115	>	4.21	>	Pollution inventory radioactive waste	>	0	0	0	0	-
Page	Section	Hydrogeology			On site	0-50m	50-250m	250-500m	500-2000m	
116	>	5.1	>	Superficial aquifer	Identified (within 500m)					
118	>	5.2	>	Bedrock aquifer	Identified (within 500m)					
120	>	5.3	>	Groundwater vulnerability	Identified (within 50m)					
121	>	5.4	>	Groundwater vulnerability- soluble rock risk	Identified (within 0m)					
122	>	5.5	>	Groundwater vulnerability- local information	Identified (within 0m)					
123	>	5.6	>	Groundwater abstractions	2	0	5	8	25	
133	>	5.7	>	Surface water abstractions	0	0	0	0	1	
133	>	5.8	>	Potable abstractions	0	0	0	0	4	
135	>	5.9	>	Source Protection Zones	5	4	0	1	-	
135	>	5.10	>	Source Protection Zones (confined aquifer)	0	0	0	0	-	
Page	Section	Hydrology			On site	0-50m	50-250m	250-500m	500-2000m	
136	>	6.1	>	Water Network (OS MasterMap)	0	0	0	-	-	



136 >	6.2 >	Surface water features >	0	0	0	-	-
137 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
137 >	6.4 >	WFD Surface water bodies >	0	1	0	-	-
138 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
139 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
140 >	7.2 >	Historical Flood Events >	0	0	0	-	-
140 >	7.3 >	Flood Defences >	1	1	0	-	-
140 >	7.4 >	Areas Benefiting from Flood Defences >	1	0	0	-	-
141 >	7.5 >	Flood Storage Areas >	0	0	0	-	-
142 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
143 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
144 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
146 >	9.1 >	Groundwater flooding >	High (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
147 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	7
148 >	10.2 >	Conserved wetland sites (Ramsar sites) >	0	0	0	0	0
148 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	0	0	0
148 >	10.4 >	Special Protection Areas (SPA) >	0	0	0	0	0
149 >	10.5 >	National Nature Reserves (NNR) >	0	0	0	0	0
149 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	0
149 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	0
149 >	10.8 >	Biosphere Reserves >	0	0	0	0	0
150 >	10.9 >	Forest Parks >	0	0	0	0	0
150 >	10.10 >	Marine Conservation Zones >	0	0	0	0	0
150 >	10.11 >	Green Belt >	0	0	0	0	2
150 >	10.12 >	Proposed Ramsar sites >	0	0	0	0	0



151 >	10.13 >	Possible Special Areas of Conservation (pSAC) >	0	0	0	0	0
151 >	10.14 >	Potential Special Protection Areas (pSPA) >	0	0	0	0	0
151 >	10.15 >	Nitrate Sensitive Areas >	0	0	0	0	0
151 >	10.16 >	Nitrate Vulnerable Zones >	0	0	1	0	0
153 >	10.17 >	SSSI Impact Risk Zones >	2	-	-	-	-
155 >	10.18 >	SSSI Units >	0	0	0	0	16
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
163 >	11.1 >	World Heritage Sites >	0	0	0	-	-
164 >	11.2 >	Area of Outstanding Natural Beauty >	0	0	0	-	-
164 >	11.3 >	National Parks >	0	0	0	-	-
164 >	11.4 >	Listed Buildings >	0	4	7	-	-
165 >	11.5 >	Conservation Areas >	0	1	0	-	-
165 >	11.6 >	Scheduled Ancient Monuments >	0	0	0	-	-
166 >	11.7 >	Registered Parks and Gardens >	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
167 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
168 >	12.2 >	Open Access Land >	0	0	0	-	-
168 >	12.3 >	Tree Felling Licences >	0	0	0	-	-
168 >	12.4 >	Environmental Stewardship Schemes >	0	0	0	-	-
168 >	12.5 >	Countryside Stewardship Schemes >	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
169 >	13.1 >	Priority Habitat Inventory >	4	2	3	-	-
170 >	13.2 >	Habitat Networks >	0	0	1	-	-
170 >	13.3 >	Open Mosaic Habitat >	0	0	2	-	-
171 >	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
172 >	14.1 >	10k Availability >	Identified (within 500m)				
173 >	14.2 >	Artificial and made ground (10k) >	2	1	2	8	-
175 >	14.3 >	Superficial geology (10k) >	1	1	0	4	-

176 >	14.4 >	Landslip (10k) >	0	0	0	0	-
177 >	14.5 >	Bedrock geology (10k) >	1	0	3	1	-
178 >	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
179 >	15.1 >	50k Availability >	Identified (within 500m)				
180 >	15.2 >	Artificial and made ground (50k) >	2	1	2	8	-
181 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
182 >	15.4 >	Superficial geology (50k) >	1	1	0	3	-
183 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
183 >	15.6 >	Landslip (50k) >	0	0	0	0	-
183 >	15.7 >	Landslip permeability (50k) >	None (within 50m)				
184 >	15.8 >	Bedrock geology (50k) >	1	0	3	0	-
185 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
185 >	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
186 >	16.1 >	BGS Boreholes >	4	5	28	-	-
Page	Section	Natural ground subsidence >					
189 >	17.1 >	Shrink swell clays >	Low (within 50m)				
190 >	17.2 >	Running sands >	Moderate (within 50m)				
192 >	17.3 >	Compressible deposits >	High (within 50m)				
194 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
195 >	17.5 >	Landslides >	Very low (within 50m)				
197 >	17.6 >	Ground dissolution of soluble rocks >	Low (within 50m)				
Page	Section	Mining, ground workings and natural cavities >	On site	0-50m	50-250m	250-500m	500-2000m
199 >	18.1 >	Natural cavities >	0	0	1	4	-
200 >	18.2 >	BritPits >	1	0	2	7	-
202 >	18.3 >	Surface ground workings >	58	28	131	-	-
210 >	18.4 >	Underground workings >	0	4	1	13	7
211 >	18.5 >	Historical Mineral Planning Areas >	0	1	1	3	-



212 >	18.6 >	Non-coal mining >	1	0	1	0	0
212 >	18.7 >	Mining cavities >	1	1	1	1	0
213 >	18.8 >	JPB mining areas >	None (within 0m)				
213 >	18.9 >	Coal mining >	None (within 0m)				
213 >	18.10 >	Brine areas >	None (within 0m)				
213 >	18.11 >	Gypsum areas >	None (within 0m)				
214 >	18.12 >	Tin mining >	None (within 0m)				
214 >	18.13 >	Clay mining >	None (within 0m)				
Page	Section	Radon >					
215 >	19.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
217 >	20.1 >	BGS Estimated Background Soil Chemistry >	4	1	-	-	-
217 >	20.2 >	BGS Estimated Urban Soil Chemistry >	0	0	-	-	-
218 >	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
219 >	21.1 >	Underground railways (London) >	0	0	0	-	-
219 >	21.2 >	Underground railways (Non-London) >	0	0	0	-	-
220 >	21.3 >	Railway tunnels >	0	1	0	-	-
220 >	21.4 >	Historical railway and tunnel features >	30	32	70	-	-
225 >	21.5 >	Royal Mail tunnels >	0	0	0	-	-
225 >	21.6 >	Historical railways >	0	0	3	-	-
226 >	21.7 >	Railways >	0	5	6	-	-
226 >	21.8 >	Crossrail 1 >	0	0	0	0	-
226 >	21.9 >	Crossrail 2 >	0	0	0	0	-
227 >	21.10 >	HS2 >	0	0	0	0	-

Recent aerial photograph



Capture Date: 31/05/2021

Site Area: 10.14ha



Recent site history - 2018 aerial photograph



Capture Date: 01/09/2018

Site Area: 10.14ha



Recent site history - 2014 aerial photograph

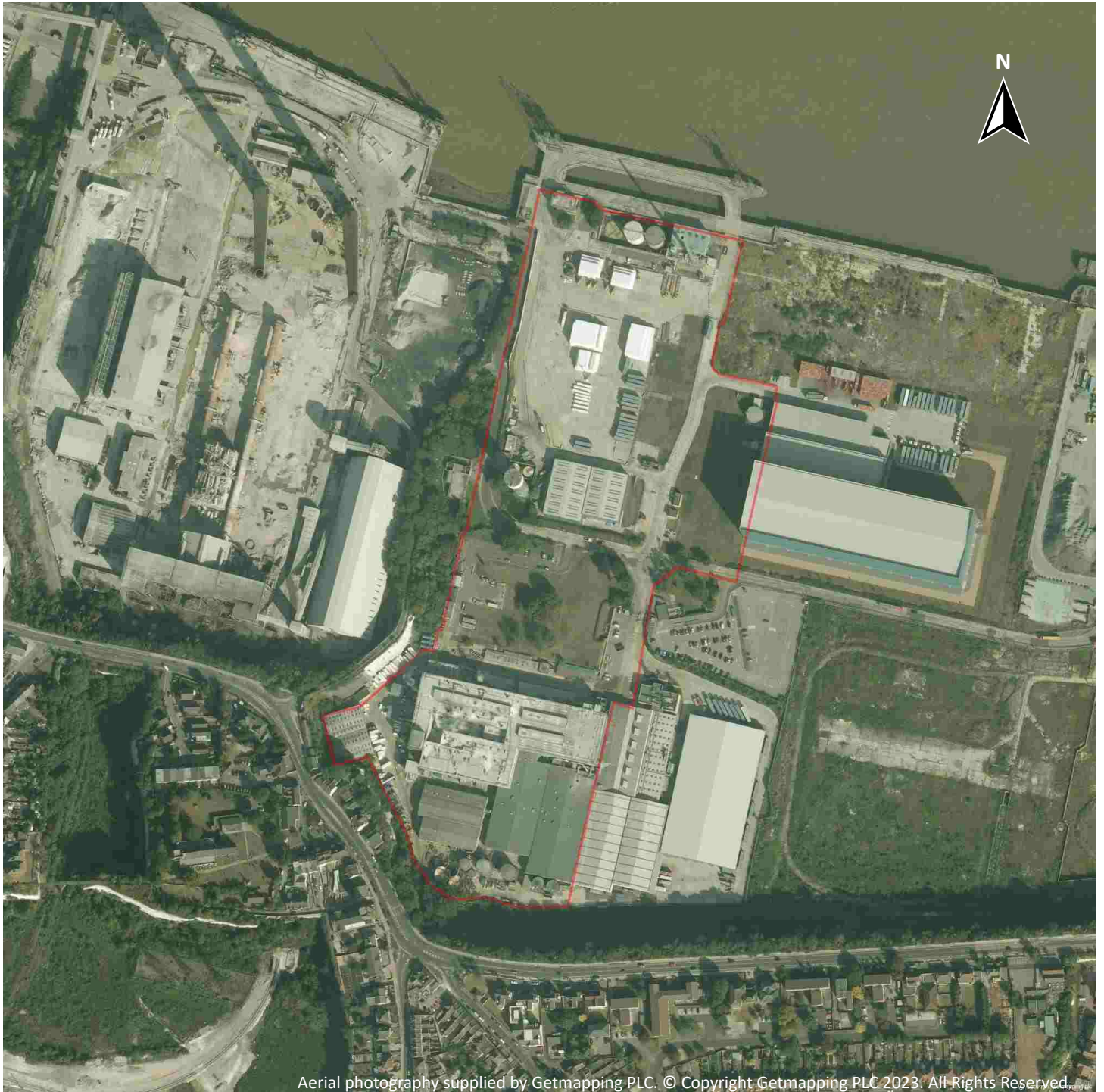


Capture Date: 31/07/2014

Site Area: 10.14ha



Recent site history - 2009 aerial photograph

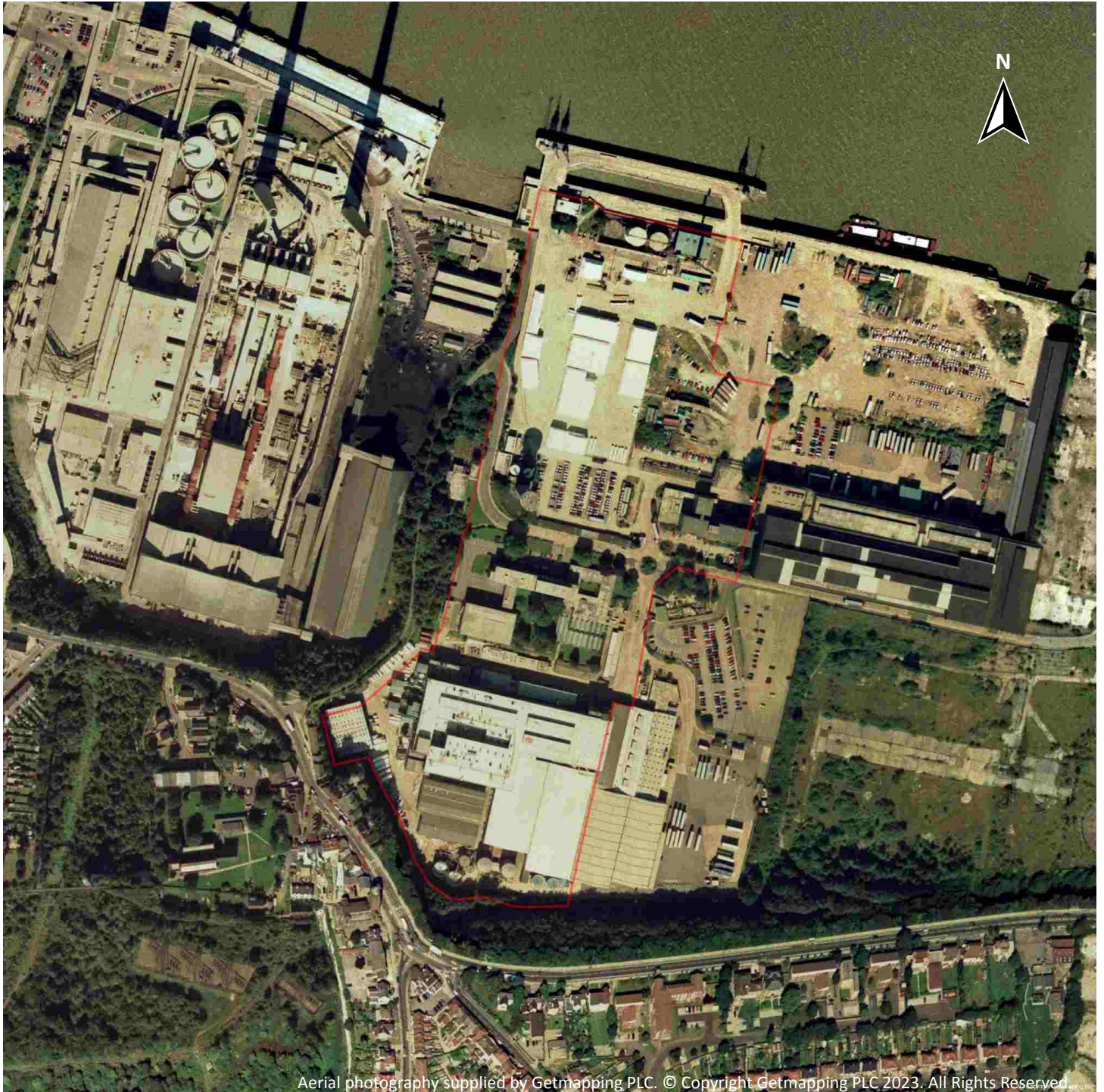


Capture Date: 27/09/2009

Site Area: 10.14ha



Recent site history - 1999 aerial photograph

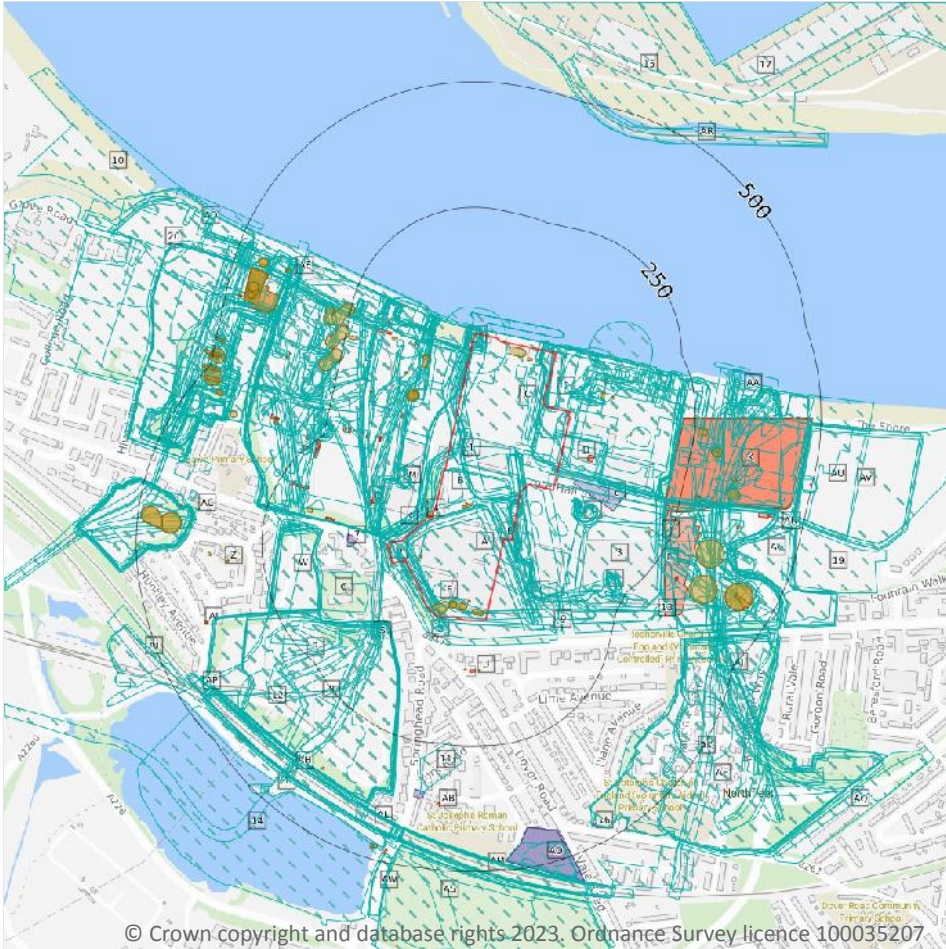


Capture Date: 03/09/1999

Site Area: 10.14ha



1 Past land use



Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

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1.1 Historical industrial land uses

Records within 500m **641**

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

Features are displayed on the Past land use map on [page 13](#) >

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Tank	1966 - 1990	2253261



ID	Location	Land use	Dates present	Group ID
2	On site	Tramway Sidings	1938	2259493
3	On site	Disused Cement Works	1938 - 1946	2263565
A	On site	Unspecified Commercial/Industrial	1966	2131133
A	On site	Paper Mill	1990	2163242
A	On site	Brick Works	1895	2173447
A	On site	Brick Works	1888 - 1923	2178411
A	On site	Unspecified Mills	1971 - 1977	2206547
B	On site	Unspecified Ground Workings	1946	2134370
B	On site	Unspecified Heap	1955	2137192
B	On site	Unspecified Tank	1888	2155360
B	On site	Railway Sidings	1888	2180279
B	On site	Railway Sidings	1898	2193616
B	On site	Railway Sidings	1895	2202854
B	On site	Railway Sidings	1907	2212158
B	On site	Railway Sidings	1865	2219488
B	On site	Brick Works	1923	2265241
B	On site	Tramway Sidings	1916	2272871
B	On site	Railway Sidings	1898	2279934
B	On site	Railway Sidings	1895	2284631
C	On site	Unspecified Ground Workings	1955	2134371
C	On site	Dock Yard	1865	2135653
C	On site	Unspecified Warehouse	1990	2138636
C	On site	Unspecified Mills	1955	2139422
C	On site	Unspecified Foundry	1895	2140137
C	On site	Unspecified Factory	1865	2151044
C	On site	Disused Dock	1923	2164754
C	On site	Disused Dockyard	1895	2175883
C	On site	Disused Dockyard	1888	2176821



ID	Location	Land use	Dates present	Group ID
C	On site	Old Dock	1888	2182299
C	On site	Tramway Sidings	1932	2183788
C	On site	Paper Mill	1946	2187262
C	On site	Disused Dockyard	1916	2188060
C	On site	Old Dock	1895	2202877
C	On site	Disused Dockyard	1895	2206513
C	On site	Unspecified Tanks	1966 - 1990	2218498
C	On site	Old Dock	1907	2236667
C	On site	Unspecified Foundry	1898	2238796
C	On site	Railway Sidings	1971	2256057
C	On site	Old Dock	1916 - 1923	2257119
C	On site	Paper Mill	1932 - 1938	2260367
C	On site	Unspecified Mill	1966 - 1977	2273577
C	On site	Railway Sidings	1977	2275768
C	On site	Old Dock	1895 - 1898	2276300
C	On site	Disused Dockyard	1898	2288867
C	On site	Disused Dockyard	1907	2290228
C	On site	Tramway Sidings	1946	2295288
D	On site	Unspecified Heap	1916	2137179
D	On site	Mineral Railway Sidings	1955 - 1966	2240800
E	On site	Unspecified Heap	1865	2137193
E	On site	Unspecified Ground Workings	1888	2195293
E	On site	Unspecified Ground Workings	1898	2202804
E	On site	Unspecified Heap	1938	2237069
E	On site	Unspecified Heap	1895	2250110
E	On site	Unspecified Heap	1955	2284324
E	On site	Unspecified Heap	1938	2291476
E	On site	Unspecified Ground Workings	1946	2292333



ID	Location	Land use	Dates present	Group ID
F	On site	Unspecified Heap	1865	2137194
F	On site	Unspecified Tank	1966	2155361
F	On site	Rifle Range	1865	2164820
F	On site	Unspecified Tanks	1990	2218516
F	On site	Unspecified Tanks	1971 - 1977	2236011
G	On site	Railway Sidings	1938	2182970
G	On site	Unspecified Wharves	1898	2194823
G	On site	Unspecified Wharf	1955 - 1966	2203811
G	On site	Unspecified Wharves	1888	2225973
G	On site	Railway Sidings	1938	2235239
G	On site	Unspecified Foundry	1888 - 1895	2257006
G	On site	Unspecified Wharf	1865	2261188
G	On site	Cement Works	1938	2264284
G	On site	Unspecified Wharves	1938	2267097
G	On site	Tramway Sidings	1923	2289529
H	On site	Unspecified Pit	1955 - 1977	2200393
H	On site	Smithy	1888	2262861
H	On site	Smithy	1898	2265865
I	On site	Unspecified Ground Workings	1932	2202051
I	On site	Railway Sidings	1865	2254252
J	On site	Unspecified Ground Workings	1938	2230096
J	On site	Unspecified Ground Workings	1916	2271894
J	On site	Unspecified Ground Workings	1938	2277015
C	1m NE	Cuttings	1865	2129957
G	2m N	Unspecified Works	1971	2224509
G	2m N	Unspecified Works	1990	2245584
G	2m N	Unspecified Works	1977	2249897
C	3m NE	Unspecified Wharf	1955	2258935



ID	Location	Land use	Dates present	Group ID
G	3m N	Portland Cement Works	1938	2142882
G	3m N	Cement Works	1916	2201048
G	8m N	Unspecified Wharves	1907	2235374
H	8m SW	Smithy	1895	2167463
G	11m N	Unspecified Wharves	1946	2203805
H	12m SW	Smithy	1895	2167464
G	12m N	Unspecified Tank	1865	2155385
G	12m N	Unspecified Wharves	1932	2230920
G	13m SW	Railway Sidings	1971	2198214
H	13m SW	Tunnel	1971	2204151
H	13m SW	Tunnel	1990	2206369
G	13m SW	Railway Sidings	1990	2189766
G	14m N	Cement Works	1895	2199577
G	14m N	Cement Works	1907	2212428
E	16m SE	Lime Kilns	1865	2137927
G	21m SW	Unspecified Commercial/Industrial	1932 - 1938	2189289
K	21m SW	Tunnels	1865	2164893
G	22m N	Cement Works	1888 - 1898	2199361
G	22m SW	Tramway Sidings	1932	2172445
K	22m SW	Tunnels	1865	2164895
G	23m SW	Railway Sidings	1907	2233255
G	23m SW	Railway Sidings	1895	2273890
E	23m SE	Unspecified Heap	1865	2137191
G	24m SW	Unspecified Works	1990	2226028
G	24m SW	Unspecified Works	1977	2276056
G	26m N	Unspecified Wharves	1923	2140515
C	26m NE	Chimney	1971	2238457
C	27m NE	Unspecified Ground Workings	1907	2227237



ID	Location	Land use	Dates present	Group ID
C	27m NE	Unspecified Ground Workings	1895	2274503
C	28m NE	Unspecified Ground Workings	1888	2201011
G	30m SW	Tramway Sidings	1923	2200679
G	30m SW	Cement Works	1923	2222770
G	31m SW	Cement Works	1888	2207749
G	31m SW	Railway Sidings	1888	2211643
C	31m NE	Unspecified Ground Workings	1898	2273898
C	32m NE	Unspecified Ground Workings	1895	2244711
G	33m SW	Tramway Sidings	1946	2217156
C	36m NE	Unspecified Ground Workings	1916	2186884
G	36m SW	Railway Sidings	1898	2232282
G	38m SW	Tramway Sidings	1916	2281823
D	40m E	Unspecified Tank	1946	2155352
L	42m E	Unspecified Heap	1938	2190527
L	44m E	Unspecified Ground Workings	1938	2243098
L	44m E	Unspecified Heap	1932 - 1938	2247467
L	45m E	Unspecified Heap	1907	2171451
L	45m E	Unspecified Ground Workings	1946	2218651
L	45m E	Unspecified Heap	1895	2284571
L	47m E	Unspecified Ground Workings	1916	2226673
G	47m SW	Railway Sidings	1895	2182495
L	49m SE	Unspecified Heap	1865	2137190
L	49m E	Unspecified Ground Workings	1898	2255009
L	50m E	Unspecified Heap	1955	2228430
M	51m W	Unspecified Heap	1888	2290781
L	51m E	Unspecified Ground Workings	1888 - 1895	2279092
L	51m E	Unspecified Ground Workings	1865	2181299
L	55m E	Unspecified Heap	1923	2278695



ID	Location	Land use	Dates present	Group ID
M	57m W	Unspecified Heap	1895 - 1907	2191624
M	60m W	Unspecified Heap	1938	2242810
M	61m W	Unspecified Heap	1916	2261428
M	61m W	Unspecified Heap	1932	2214003
M	61m W	Unspecified Heap	1946	2264641
M	61m W	Unspecified Heap	1938	2247659
8	62m E	Railway Sidings	1971	2196674
N	62m E	Unspecified Works	1971 - 1977	2282059
G	63m W	Railway Sidings	1977	2247460
M	64m W	Unspecified Heap	1895	2251794
I	64m S	Unspecified Heap	1955	2257578
I	64m S	Unspecified Heap	1946	2256100
O	65m SW	Grave Yard	1865	2145773
C	67m NE	Unspecified Wharf	1966 - 1990	2269518
I	67m S	Unspecified Heap	1938	2238615
I	69m S	Unspecified Heap	1938	2258960
I	74m S	Unspecified Heap	1888	2194788
G	75m N	Unspecified Wharves	1888	2257888
G	75m N	Unspecified Wharves	1895	2256295
G	79m N	Unspecified Wharves	1898	2269488
G	80m N	Unspecified Wharf	1955	2251318
G	81m NW	Unspecified Tank	1932	2231785
G	81m NW	Unspecified Tank	1907	2243257
P	82m SW	Chalk Pit	1938	2201799
P	83m SW	Unspecified Disused Pit	1977 - 1990	2185472
P	83m SW	Burial Ground	1977	2242377
G	83m N	Wharves	1916	2143216
G	83m NW	Railway Sidings	1938	2262245



ID	Location	Land use	Dates present	Group ID
G	83m N	Railway Sidings	1938	2216955
G	83m N	Unspecified Wharves	1938	2224983
P	83m SW	Chalk Pit	1916	2206811
G	84m NW	Unspecified Tank	1946	2226120
G	84m NW	Unspecified Tank	1938	2178127
P	84m SW	Chalk Pit	1895 - 1898	2264989
G	85m NW	Unspecified Tank	1955	2222567
P	85m SW	Chalk Pit	1907	2228865
P	85m SW	Tramway Sidings	1907	2269038
P	86m SW	Chalk Pit	1938	2226835
P	86m SW	Old Chalk Pit	1938 - 1946	2169483
P	86m SW	Burial Ground	1955 - 1966	2214742
P	87m SW	Chalk Pit	1923	2255946
C	88m E	Unspecified Pit	1865	2126206
R	89m SW	Tramway Sidings	1923 - 1946	2210284
C	90m NE	Chimney	1966	2261280
N	92m SE	Unspecified Works	1990	2202868
P	92m SW	Chalk Pit	1895	2265909
P	93m SW	Old Chalk Pit	1932	2195684
S	95m SW	Railway Sidings	1895	2234406
T	95m SW	Tramway Sidings	1938	2193577
P	99m SW	Chalk Pit	1888	2260049
S	99m SW	Railway Sidings	1888	2229381
V	101m SE	Unspecified Heap	1955	2203412
G	102m W	Mineral Railway Sidings	1966	2164032
S	102m SW	Railway Sidings	1898	2196400
S	102m SW	Railway Sidings	1898	2239648
P	105m SW	Tramway Sidings	1916	2216135



ID	Location	Land use	Dates present	Group ID
G	108m NW	Unspecified Wharves	1888	2228901
P	111m SW	Mineral Railway Sidings	1966	2164033
C	118m E	Unspecified Pit	1865	2126205
G	120m NW	Unspecified Ground Workings	1955 - 1966	2193520
G	122m NW	Unspecified Ground Workings	1932	2214691
G	123m NW	Unspecified Heap	1938	2281542
G	126m NW	Unspecified Wharves	1938	2188799
9	128m SE	Unspecified Heap	1946 - 1955	2226084
W	132m W	Old Chalk Pit	1888 - 1895	2201073
W	132m W	Old Chalk Pit	1895	2194464
G	133m NW	Unspecified Ground Workings	1938	2251848
V	133m SE	Unspecified Ground Workings	1888 - 1895	2240550
G	133m NW	Unspecified Tank	1971	2155384
G	133m NW	Chimney	1977 - 1990	2214577
W	135m W	Unspecified Disused Pit	1977 - 1990	2214208
W	135m W	Old Chalk Pit	1898	2174323
W	137m W	Unspecified Pit	1923	2275681
W	138m W	Unspecified Pit	1955 - 1966	2175080
G	145m W	Unspecified Ground Workings	1865	2134372
G	148m W	Unspecified Pit	1955 - 1966	2248034
G	155m NW	Unspecified Wharves	1898	2173374
G	159m W	Railway Sidings	1895	2221164
G	159m NW	Unspecified Wharves	1932	2233409
G	159m W	Unspecified Commercial/Industrial	1946	2177592
V	161m SE	Unspecified Ground Workings	1932	2224506
G	163m W	Railway Sidings	1888	2212090
G	164m NW	Unspecified Wharf	1865	2288737
G	164m NW	Tramway Sidings	1865	2229224



ID	Location	Land use	Dates present	Group ID
G	170m W	Railway Sidings	1898	2231608
G	170m W	Railway Sidings	1898	2232469
G	179m W	Unspecified Heaps	1955 - 1966	2268760
G	182m W	Tunnel	1971	2151567
G	183m W	Cement Works	1938	2260164
G	184m NW	Unspecified Wharves	1946	2213252
10	189m NW	Unspecified Wharf	1895	2270164
G	190m NW	Tramway Sidings	1865	2178519
G	193m W	Railway Sidings	1888	2190216
G	194m NW	Unspecified Works	1955 - 1966	2196647
G	196m W	Brick Works	1895	2213430
V	197m SE	Unspecified Pit	1865	2126202
G	198m W	Railway Sidings	1895 - 1898	2200731
G	199m NW	Brick Works	1895	2211016
G	199m NW	Cement Works	1907	2271974
V	199m SE	Unspecified Heap	1923 - 1938	2200919
V	199m SE	Unspecified Heap	1938	2262977
X	201m E	Cement Works	1916	2172745
V	203m SE	Unspecified Ground Workings	1898	2236289
V	203m SE	Unspecified Ground Workings	1898	2265691
V	203m SE	Unspecified Heap	1895	2274163
V	203m SE	Unspecified Heap	1946	2284826
X	204m E	Cement Works	1907	2178945
V	206m SE	Unspecified Heap	1907	2277284
G	207m NW	Unspecified Tank	1971	2155386
G	207m NW	Chimney	1977 - 1990	2276814
G	207m W	Unspecified Ground Workings	1865	2134373
X	208m E	Cement Works	1923	2261569



ID	Location	Land use	Dates present	Group ID
G	211m W	Unspecified Pit	1895	2126199
N	213m E	White Lead Works	1895	2178157
G	217m W	Gravel Pit	1966	2139095
G	217m W	Refuse Heap	1955	2213837
X	218m E	Power Station	1977 - 1990	2196236
N	220m E	Whiting Works	1916	2239701
N	220m E	Whiting Works	1938	2183039
N	220m E	Whiting Works	1938	2217810
X	220m E	Unspecified Works	1966 - 1971	2289828
N	221m E	Disused Cement Works	1932	2171407
G	222m NW	Gas Works	1895	2135574
N	223m E	Lead Works	1898	2173024
N	223m E	Railway Sidings	1865	2180092
N	226m E	Unspecified Commercial/Industrial	1907 - 1916	2241032
N	226m E	White Lead Works	1888 - 1895	2284295
G	227m NW	Unspecified Wharves	1932 - 1938	2256480
X	227m E	Railway Sidings	1907	2278942
Y	228m E	Lime Kilns	1865	2137925
G	229m NW	Railway Sidings	1938	2231939
G	229m NW	Railway Sidings	1938	2293485
G	229m NW	Railway Sidings	1916	2253026
G	234m W	Unspecified Heap	1895 - 1907	2225807
N	234m E	Railway Sidings	1916	2207145
G	236m W	Unspecified Ground Workings and Heap	1888	2138421
N	236m E	Whiting Works	1907 - 1923	2182525
G	237m W	Unspecified Heap	1916	2224608
G	238m NW	Unspecified Tanks	1971 - 1990	2203595
G	239m W	Unspecified Heap	1938 - 1946	2198347



ID	Location	Land use	Dates present	Group ID
G	240m W	Unspecified Heap	1938	2177199
G	240m W	Refuse Heap	1907	2283287
G	242m W	Unspecified Heap	1946	2260825
G	242m W	Unspecified Ground Workings	1932	2260766
G	243m W	Unspecified Ground Workings	1938	2283864
G	245m W	Unspecified Heap	1895	2284148
11	245m S	Barrack Field	1865	2162777
G	246m W	Refuse Heap	1895	2266317
G	249m W	Refuse Heap	1898	2185867
X	249m E	Cement Works	1923	2276410
G	251m NW	Unspecified Ground Workings	1865 - 1895	2278654
G	252m NW	Unspecified Ground Workings	1888	2289276
G	252m NW	Unspecified Heap	1895	2231545
G	255m W	Unspecified Heap	1865	2137189
G	256m NW	Unspecified Ground Workings	1898	2260961
G	258m W	Unspecified Heap	1955 - 1966	2273343
N	258m E	Unspecified Ground Workings	1932	2290262
G	258m NW	Unspecified Heap	1923	2285804
N	260m E	Unspecified Pit	1946	2126201
G	260m NW	Unspecified Heaps	1907	2160807
G	262m NW	Railway Sidings	1888	2287501
N	262m E	Unspecified Ground Workings	1938	2271529
G	262m NW	Unspecified Ground Workings	1916	2187722
G	266m NW	Unspecified Tanks	1888 - 1898	2270541
G	266m NW	Railway Sidings	1898	2182140
G	266m NW	Railway Sidings	1898	2203069
G	267m NW	Railway Sidings	1955	2208314
G	268m NW	Unspecified Tanks	1923	2269182



ID	Location	Land use	Dates present	Group ID
G	270m NW	Unspecified Tanks	1907	2193341
N	272m E	Railway Sidings	1895	2268619
G	274m NW	Unspecified Heap	1938 - 1946	2244889
G	274m NW	Railway Sidings	1966	2239807
G	274m NW	Tanks	1916	2162274
G	275m NW	Unspecified Heap	1932	2247677
G	276m NW	Unspecified Ground Workings	1946	2248616
G	277m NW	Unspecified Heap	1955 - 1966	2219062
X	278m E	Railway Sidings	1895	2178142
N	280m SE	Tramway Sidings	1932	2270302
N	282m E	Railway Sidings	1898	2249046
X	284m E	Disused Cement Works	1938	2258554
N	286m E	Railway Sidings	1888	2230386
X	289m E	Unspecified Tank	1946	2272305
X	290m E	Tank	1916	2140334
N	290m E	Tramway Sidings	1923	2209466
X	294m E	Unspecified Tank	1923 - 1932	2223889
X	294m E	Unspecified Tank	1907	2264045
X	295m E	Unspecified Works	1966 - 1971	2223965
X	296m E	Unspecified Tank	1938	2243937
G	296m W	Unspecified Heaps	1865	2160806
R	305m SW	Cuttings	1955 - 1966	2250541
X	305m E	Disused Cement Works	1932	2174372
X	306m E	Disused Cement Works	1946	2248542
12	306m SW	Burial Ground	1971 - 1977	2276672
G	307m NW	Unspecified Pit	1916 - 1923	2287279
G	308m NW	Unspecified Pit	1907	2266377
13	310m SE	Unspecified Heap	1955	2137198



ID	Location	Land use	Dates present	Group ID
N	310m E	Unspecified Tanks	1977	2186359
N	310m E	Unspecified Tanks	1990	2220603
N	315m E	Whiting Works	1895	2224774
AA	321m E	Unspecified Wharf	1895	2189541
AA	322m E	Unspecified Wharves	1938	2267802
AA	323m E	Unspecified Wharf	1946	2184902
AA	323m E	Unspecified Wharf	1895 - 1898	2197099
AA	326m E	Unspecified Wharf	1888	2188208
AA	331m E	Railway Building	1895	2150385
X	337m E	Tank	1916	2140336
X	338m E	Unspecified Tank	1946	2192348
X	338m E	Unspecified Tanks	1932 - 1938	2207974
X	338m E	Unspecified Tank	1938	2198996
X	339m E	Unspecified Pit	1895	2196465
X	341m E	Unspecified Pit	1865	2246996
X	342m E	Unspecified Tank	1955	2257393
X	343m E	Unspecified Tank	1907	2216981
X	343m E	Unspecified Tank	1932	2268628
AA	344m E	Railway Sidings	1865	2277546
X	344m E	Unspecified Tank	1923	2263596
X	345m E	Unspecified Pit	1898	2291256
N	347m E	Whiting Works	1898	2253968
N	349m E	Railway Sidings	1938	2292502
G	349m W	Unspecified Heap	1932	2280363
X	349m E	Unspecified Pit	1888 - 1895	2193764
N	350m E	Whiting Works	1888	2208554
G	350m W	Unspecified Heap	1938	2258662
G	352m W	Unspecified Ground Workings	1916	2253710



ID	Location	Land use	Dates present	Group ID
AA	356m E	Chimney	1966 - 1990	2253934
G	368m NW	Railway Sidings	1938	2194554
AD	368m NW	Unspecified Works	1977 - 1990	2267204
AA	368m E	Unspecified Wharf	1932	2239534
AE	368m NW	Unspecified Wharf	1895	2174813
AE	369m NW	Unspecified Wharf	1946	2227580
AE	369m NW	Unspecified Wharf	1932	2267120
N	369m E	Tank	1916	2140335
AA	369m E	Quay	1865	2139307
AF	370m SE	Chalk Pit	1938	2286029
AG	371m E	Old Chalk Pit	1895	2250767
G	373m NW	Refuse Heap	1938	2281695
G	374m NW	Refuse Heap	1946	2290801
N	374m E	Unspecified Tank	1907	2155355
AG	378m E	Unspecified Works	1955	2270972
AE	379m W	Cement Works	1938	2245417
AA	380m E	Unspecified Wharf	1895	2282260
AE	380m NW	Unspecified Wharf	1865 - 1888	2250458
AG	380m E	Unspecified Ground Workings	1907	2280390
AG	380m E	Old Chalk Pit	1895	2287516
AE	381m NW	Unspecified Wharf	1895	2182716
AC	381m W	Unspecified Tank	1938	2155300
AE	381m W	Cement Works	1907 - 1916	2198904
AG	382m E	Old Chalk Pit	1898	2234948
AE	382m W	Unspecified Pit	1865	2126200
AG	382m E	Chalk Pit	1888	2157766
AH	383m SW	Tunnel	1977 - 1990	2218238
AC	384m W	Tramway Sidings	1888 - 1898	2189056



ID	Location	Land use	Dates present	Group ID
AC	384m W	Unspecified Quarry	1888	2270926
AE	385m NW	Gas Works	1895 - 1923	2197699
AE	386m NW	Cement Works	1923	2227374
AE	386m NW	Unspecified Wharf	1898	2227582
AE	386m NW	Unspecified Tank	1966	2205104
AC	387m W	Quarry	1916	2143070
AF	387m SE	Old Chalk Pit	1932	2272466
AE	387m NW	Unspecified Tank	1946	2264603
AH	387m SW	Tunnel	1938 - 1946	2259364
AE	388m NW	Unspecified Tank	1932	2269509
AJ	388m SE	Old Chalk Pit	1895	2291323
AF	388m SE	Unspecified Pit	1955 - 1966	2254534
AF	389m SE	Old Chalk Pit	1938 - 1946	2274267
AK	389m SE	Disused Workings	1990	2144633
AK	389m SE	Unspecified Pit	1971 - 1990	2241389
AH	389m SW	Tunnel	1932	2237676
AC	389m W	Unspecified Quarry	1938	2212291
AC	390m W	Unspecified Quarry	1895 - 1907	2290194
AC	390m W	Unspecified Quarry	1923	2222565
AE	390m NW	Portland Cement Works	1938	2142881
AE	391m NW	Unspecified Commercial/Industrial	1990	2131137
AE	391m NW	Unspecified Works	1971 - 1977	2285621
AC	391m W	Unspecified Old Quarry	1932	2204295
AC	391m W	Unspecified Old Quarry	1946	2240083
AC	391m W	Railway Sidings	1895 - 1907	2272832
AC	392m W	Unspecified Quarry	1990	2180631
AC	392m W	Unspecified Old Quarry	1938	2219695
AE	392m NW	Cement Works	1895	2190489



ID	Location	Land use	Dates present	Group ID
AE	392m NW	Railway Sidings	1895	2201192
AE	392m NW	Cement Works	1938	2255887
AC	393m W	Tramway Sidings	1923	2270090
AE	393m NW	Cement Works	1932	2259850
AC	393m W	Unspecified Tank	1946	2155299
AE	394m W	Unspecified Tank	1971 - 1990	2178010
AE	394m NW	Cement Works	1946	2269578
AJ	394m SE	Unspecified Works	1977 - 1990	2227273
AC	394m W	Unspecified Ground Workings	1955	2134375
AC	394m W	Unspecified Pit	1966	2234234
AC	394m W	Unspecified Quarry	1938	2230336
AE	395m NW	Brick Works	1898	2267552
AE	396m NW	Railway Sidings	1888	2206474
AC	396m W	Unspecified Tank	1932	2155298
AJ	396m SE	Old Chalk Pit	1888 - 1898	2283604
AF	396m SE	Chalk Pit	1916	2291806
N	397m E	Unspecified Pit	1971	2126194
AH	399m SW	Cuttings	1907	2192325
AH	399m SW	Cuttings	1895	2238165
AE	399m NW	Tramway Sidings	1946	2244792
AE	400m NW	Railway Sidings	1898	2284790
AE	400m NW	Tramway Sidings	1923	2280216
AL	400m SW	Cuttings	1938	2237041
AH	401m SW	Cuttings	1938	2251327
AC	401m W	Unspecified Quarry	1895	2222667
AH	401m SW	Cuttings	1895	2271612
AE	401m W	Brick Works	1888	2266509
T	402m SW	Cuttings	1946	2170626



ID	Location	Land use	Dates present	Group ID
AE	402m NW	Railway Sidings	1907	2256771
AF	402m SE	Chalk Pit	1907	2182199
AL	402m S	Cuttings	1932	2264051
AE	403m W	Railway Sidings	1916	2223194
AE	403m NW	Railway Sidings	1895	2170939
AE	403m NW	Gas Works	1895	2280294
AE	404m W	Unspecified Pit	1895	2173101
T	404m SW	Cuttings	1932	2248862
AF	404m SE	Chalk Pit	1923	2231607
T	404m SW	Cuttings	1938	2248116
AH	405m SW	Cuttings	1865	2186329
AE	405m NW	Railway Sidings	1938	2185989
AH	405m SW	Cuttings	1923	2179093
N	405m SE	Lime Kiln	1865	2166925
AA	405m E	Chimney	1966 - 1990	2172660
N	406m SE	Unspecified Tank	1895	2155359
AE	407m W	Unspecified Ground Workings	1938	2200630
AM	408m S	Cuttings	1938	2212837
AA	408m E	Unspecified Wharf	1946	2250583
AE	409m W	Unspecified Pit	1923	2295096
AE	409m W	Unspecified Ground Workings	1946	2195957
AC	409m W	Unspecified Tanks	1990	2288161
AE	410m W	Unspecified Ground Workings	1938	2293261
AL	411m S	Cuttings	1971 - 1990	2250911
AL	411m S	Cuttings	1955	2274099
AM	411m S	Cuttings	1966	2256839
AE	411m W	Unspecified Ground Workings	1907	2187583
AE	411m W	Unspecified Ground Workings	1932	2227340



ID	Location	Land use	Dates present	Group ID
AD	411m NW	Unspecified Wharf	1946	2174998
AE	412m W	Clay Mill	1865	2166682
AE	413m W	Unspecified Ground Workings	1916	2245674
AC	413m W	Unspecified Tanks	1971 - 1977	2221777
N	413m SE	Unspecified Tanks	1932	2277635
AE	413m NW	Unspecified Wharf	1938	2269449
AE	413m NW	Unspecified Wharf	1938	2284946
N	415m SE	Unspecified Tanks	1938	2198991
AJ	415m SE	Tunnel	1938	2186953
AJ	416m SE	Tunnel	1916 - 1923	2214375
AE	418m W	Unspecified Pit	1971 - 1990	2244611
AE	418m NW	Gas Works	1888	2275082
AE	418m W	Unspecified Pit	1865	2126197
AJ	420m SE	Tunnel	1938 - 1946	2222826
AJ	421m SE	Tunnel	1932	2201075
N	421m SE	Unspecified Tank	1895	2155358
AM	423m S	Cuttings	1895	2225362
AM	426m S	Cuttings	1916	2238478
AM	427m S	Cuttings	1898	2256878
AM	427m S	Cuttings	1898	2287436
AE	427m W	Unspecified Works	1955	2181006
AE	427m W	Cement Works	1966	2191753
AE	427m W	Unspecified Pit	1955	2220863
AM	427m S	Cuttings	1865 - 1888	2173593
AE	428m NW	Gas Works	1865	2196446
AM	428m S	Cuttings	1907 - 1946	2182780
AM	428m S	Cuttings	1895	2265791
AM	428m S	Cuttings	1923 - 1990	2177141



ID	Location	Land use	Dates present	Group ID
AE	428m W	Unspecified Ground Workings	1907	2201701
AE	429m NW	Unspecified Pit	1955	2126198
AE	429m W	Brick Field	1865	2146742
AJ	429m SE	Tunnel	1907	2221121
AK	430m SE	Unspecified Workings	1977	2151480
AE	430m NW	Gasometers	1888	2219354
AE	431m NW	Gasometer	1865 - 1895	2251285
AE	431m NW	Gasometer	1907	2267711
AA	431m E	Unspecified Wharf	1932	2240138
14	432m SW	Chalk Pit	1932 - 1938	2221295
AJ	432m SE	Unspecified Quarry	1865	2145147
AE	433m NW	Unspecified Tank	1966 - 1971	2245813
AE	435m NW	Gasometers	1898	2246274
AE	436m NW	Gasometer	1923	2198636
AE	436m NW	Unspecified Tank	1895	2178668
AE	436m NW	Unspecified Tank	1907	2189915
AE	436m NW	Unspecified Tanks	1932	2295240
AN	437m E	Engineering Works	1946	2142111
AP	437m SW	Cuttings	1888	2238616
AJ	437m SE	Railway Sidings	1895	2236870
AE	437m NW	Unspecified Tanks	1946	2289538
AP	438m SW	Cuttings	1895	2275660
AP	439m SW	Cuttings	1946	2188749
AE	439m W	Unspecified Tank	1888	2221871
AE	440m W	Unspecified Tank	1932	2173552
AE	440m W	Unspecified Tank	1907	2223911
AE	440m W	Unspecified Tank	1895	2281766
AE	440m W	Unspecified Tank	1923	2236118



ID	Location	Land use	Dates present	Group ID
AP	440m SW	Cuttings	1932	2193908
AQ	440m SE	Tramway Sidings	1946	2204626
AE	441m NW	Gasometers	1916	2201676
AJ	441m SE	Railway Sidings	1865	2170158
AE	441m NW	Unspecified Tank	1923	2249129
AE	441m W	Unspecified Ground Workings	1865	2231370
AE	441m NW	Gasometer	1895	2210501
AP	444m SW	Cuttings	1895	2268145
AE	444m W	Unspecified Tank	1898	2182614
AE	444m W	Unspecified Tank	1938 - 1946	2206358
AC	445m W	Unspecified Pit	1865	2212720
AQ	446m SE	Tramway Sidings	1938	2243934
AE	447m NW	Gasometer	1895	2222190
AF	448m SE	Railway Sidings	1907	2276868
AJ	449m SE	Unspecified Pits	1955	2141813
AO	450m S	Chalk Pit	1932 - 1938	2222966
AE	450m W	Unspecified Tanks	1895	2176477
AE	451m W	Unspecified Tank	1865	2155362
N	452m SE	Unspecified Tanks	1932	2284856
AE	452m NW	Unspecified Industrial/Commercial	1888	2164943
N	453m SE	Unspecified Tanks	1938	2280916
AF	453m SE	Railway Sidings	1923	2255519
15	454m NE	Railway Sidings	1955 - 1966	2267789
AR	455m NE	Railway Sidings	1982 - 1992	2257573
AO	455m S	Refuse Heap	1946	2246271
AL	457m S	Tunnel	1946	2151572
AE	457m W	Unspecified Pit	1895	2169819
AE	459m W	Unspecified Tanks	1888	2194428



ID	Location	Land use	Dates present	Group ID
AE	459m W	Unspecified Tanks	1895	2192420
AS	461m S	Tramway Sidings	1946	2151152
AS	461m S	Chalk Pit	1946	2294193
AS	461m S	Gravel Pit	1977	2139097
AE	462m W	Unspecified Tanks	1971	2226113
AE	462m W	Unspecified Tanks	1990	2255661
AE	462m W	Unspecified Tanks	1977	2259554
AE	463m W	Unspecified Tanks	1898	2201962
AE	463m W	Unspecified Tanks	1898	2236772
AE	465m NW	Railway Sidings	1865	2222502
N	466m SE	Unspecified Ground Workings	1955	2134364
AL	466m S	Pump House	1990	2168094
AE	468m W	Railway Sidings	1895	2251914
AE	468m W	Railway Sidings	1907	2252281
AT	469m SW	Railway Sidings	1977 - 1990	2188509
AL	469m S	Pumping House	1946	2165293
AE	470m W	Railway Sidings	1888	2192901
AS	470m S	Unspecified Ground Workings	1955 - 1966	2227645
17	470m N	Railway Sidings	1946	2249066
AJ	471m SE	Tunnel	1938	2183707
AE	472m W	Tunnel	1923	2259105
AU	472m E	Tyre Works	1932	2182901
AM	472m S	Chalk Pit	1932 - 1938	2281142
AV	473m E	Electric Cable Works	1938	2176153
AV	473m E	Electric Cable Works	1916	2233623
AV	473m E	Printing Works	1938	2221904
AD	473m NW	Unspecified Wharf	1938	2178135
AU	474m E	Tyre Works	1946	2291549



ID	Location	Land use	Dates present	Group ID
18	474m SW	Pump House	1990	2168095
AU	474m E	Unspecified Pit	1916 - 1923	2238306
AD	475m NW	Unspecified Wharf	1932	2233903
AG	476m E	Unspecified Heap	1865	2137199
AE	476m NW	Unspecified Tanks	1888	2175225
AE	476m W	Railway Sidings	1898	2214748
AE	476m W	Railway Sidings	1898	2264451
AU	476m E	Unspecified Works	1955	2160150
AE	477m NW	Unspecified Tanks	1895	2211867
AE	478m W	Unspecified Tanks	1888	2199678
AT	478m SW	Old Chalk Pit	1946	2165646
AV	478m E	Electric Cable Works	1907	2241347
AU	479m E	Unspecified Pit	1907	2249288
AE	479m W	Unspecified Tanks	1895 - 1898	2216730
AE	480m NW	Unspecified Tanks	1923	2283061
AE	480m NW	Tramway Sidings	1946	2268642
AV	480m E	Electric Cable Works	1923	2195494
AE	480m W	Railway Sidings	1923	2291062
AO	481m S	Refuse Heap	1966	2200866
AE	481m NW	Unspecified Tanks	1898	2182105
AE	481m NW	Unspecified Tanks	1898	2188352
AE	481m W	Tunnel	1932 - 1946	2223839
AE	481m W	Unspecified Tanks	1923	2228776
AW	482m S	Cuttings	1938	2179832
AE	482m NW	Unspecified Tanks	1907	2228774
AE	482m W	Tunnel	1938	2246210
AE	483m W	Tunnel	1907 - 1916	2258760
AE	483m NW	Unspecified Tank	1938	2155383



ID	Location	Land use	Dates present	Group ID
AE	484m W	Unspecified Tanks	1907	2254171
AE	484m NW	Unspecified Tanks	1938	2206761
AE	484m NW	Tanks	1916	2162275
AE	485m W	Railway Sidings	1895	2203719
AE	485m NW	Unspecified Tanks	1923	2221188
AT	486m SW	Unspecified Pit	1966	2126196
19	486m E	Engineering Works	1932 - 1938	2262564
20	487m NW	Cement Works	1898	2205395
AE	487m NW	Unspecified Tanks	1907	2172383
AE	487m W	Tunnel	1938	2224324
AW	487m S	Cuttings	1938	2217009
AW	488m S	Cuttings	1898	2294425
AE	489m NW	Unspecified Tank	1938	2155381
AE	489m W	Unspecified Tank	1938	2155363
AE	490m NW	Unspecified Tanks	1938	2209059
AE	490m NW	Unspecified Tank	1938	2155382
AE	490m W	Unspecified Tanks	1938	2277130
AE	490m W	Tanks	1916	2162288
AE	490m NW	Tanks	1916	2162273
AE	494m W	Unspecified Quarry	1865	2145149
AE	496m W	Unspecified Ground Workings	1923	2282743
AE	497m W	Unspecified Tank	1938	2155364
AE	497m NW	Unspecified Tank	1938	2155379
AT	498m SW	Unspecified Ground Workings	1955	2134374

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

95

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

Features are displayed on the Past land use map on [page 13 >](#)

ID	Location	Land use	Dates present	Group ID
B	On site	Unspecified Tank	1898	369226
B	On site	Unspecified Tank	1909	369227
B	On site	Unspecified Tank	1897 - 1909	391166
C	On site	Unspecified Tank	1985	369190
C	On site	Tanks	1985	378147
C	On site	Tanks	1960 - 1985	382860
F	On site	Unspecified Tank	1973	369229
F	On site	Unspecified Tank	1993	369230
F	On site	Tanks	1993	378183
F	On site	Tanks	1993	378184
F	On site	Tanks	1993	378185
F	On site	Unspecified Tank	1959 - 1973	381832
F	On site	Unspecified Tank	1964	407667
H	On site	Unspecified Tank	1993	369228
4	0m SW	Tanks	1993	378153
C	69m NE	Unspecified Tank	1952	387528
G	78m NW	Tanks	1897 - 1898	406759
G	82m NW	Unspecified Tank	1952	403906
G	83m NW	Unspecified Tank	1952	385078
G	84m NW	Unspecified Tank	1933 - 1939	405527
C	88m NE	Unspecified Tank	1952	397618



ID	Location	Land use	Dates present	Group ID
C	88m NE	Unspecified Tank	1972	369196
U	98m S	Unspecified Tank	1865	369231
O	107m SW	Unspecified Tank	1980 - 1994	409391
G	112m NW	Unspecified Tank	1897	369195
G	116m NW	Unspecified Tank	1898	369194
C	125m E	Unspecified Tank	1973	369197
G	147m NW	Unspecified Tank	1972	369191
G	163m W	Tanks	1980 - 1994	386124
G	168m NW	Unspecified Tank	1972	369192
G	175m NW	Unspecified Tank	1897 - 1909	410620
Y	205m E	Unspecified Tank	1952	384244
G	227m NW	Tanks	1898 - 1909	380616
G	242m NW	Tanks	1898 - 1972	409855
G	244m NW	Tanks	1972	378197
G	247m NW	Tanks	1972	378196
X	256m E	Unspecified Tank	1985	369189
X	291m E	Unspecified Tank	1909	396103
X	298m E	Unspecified Tank	1933 - 1939	394287
N	303m E	Tanks	1975 - 1993	402860
N	309m E	Unspecified Tank	1975 - 1985	409783
Z	317m W	Unspecified Tank	1980 - 1994	400171
X	318m E	Unspecified Tank	1909	369180
G	323m W	Unspecified Tank	1980 - 1994	385259
N	330m SE	Unspecified Tank	1975 - 1985	401329
X	339m E	Unspecified Tank	1909 - 1939	381436
X	342m E	Tanks	1933	378148
G	349m NW	Unspecified Tank	1952	369193
Z	351m W	Unspecified Tank	1865 - 1909	383759



ID	Location	Land use	Dates present	Group ID
X	352m E	Unspecified Tank	1952	369182
G	354m NW	Unspecified Tank	1952 - 1964	383793
AC	363m W	Unspecified Tank	1865	369225
N	372m E	Unspecified Tank	1909	369179
AH	376m SW	Unspecified Tank	1897	369233
AE	386m NW	Unspecified Tank	1952	397186
AE	390m NW	Unspecified Tank	1898 - 1932	401939
AE	392m NW	Unspecified Tank	1898 - 1939	405569
AE	394m W	Unspecified Tank	1972	369198
AE	396m NW	Gas Works	1898	409673
N	398m SE	Unspecified Tank	1985	381398
N	399m SE	Unspecified Tank	1975	386616
AC	412m W	Unspecified Tank	1972 - 1980	405159
AC	413m W	Unspecified Tank	1994	392725
AC	414m W	Unspecified Tank	1932 - 1938	385333
N	418m SE	Unspecified Tank	1933	393294
N	419m SE	Unspecified Tank	1897	409453
N	428m SE	Tanks	1933	378154
AE	428m NW	Gas Works	1898 - 1909	401381
AE	433m NW	Unspecified Tank	1952 - 1964	384701
AE	433m NW	Unspecified Tank	1952	395028
AE	438m NW	Tanks	1932	378198
AE	438m NW	Gasometers	1898 - 1939	391499
AE	440m NW	Gasometer	1898	374083
AE	443m W	Unspecified Tank	1909 - 1938	394403
AE	443m W	Gasometer	1897 - 1898	400746
AE	445m NW	Gasometer	1898	374084
AC	449m W	Tanks	1970	394401



ID	Location	Land use	Dates present	Group ID
AC	449m W	Tanks	1979 - 1986	403371
AC	454m W	Unspecified Tank	1865	369224
AE	462m W	Tanks	1897 - 1909	381405
AE	462m W	Unspecified Tank	1972	369200
AE	466m W	Tanks	1898	388736
AE	468m NW	Unspecified Tank	1952 - 1964	385464
AE	468m NW	Unspecified Tank	1952	402135
AL	470m S	Unspecified Tank	1952	407279
AE	476m NW	Unspecified Tank	1972	369199
AE	480m NW	Unspecified Tanks	1907	379245
AE	481m NW	Tanks	1909	381354
AE	481m NW	Tanks	1897	410197
AE	482m W	Tanks	1897 - 1909	400621
AE	485m NW	Tanks	1898	398666
AE	487m W	Tanks	1898	404619
AE	488m NW	Unspecified Tanks	1907	379246
AU	495m E	Unspecified Tank	1933	369181
AR	498m NE	Unspecified Tank	1950	368818

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	63
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 13 >](#)



ID	Location	Land use	Dates present	Group ID
B	On site	Electricity Substation	1973 - 1993	261926
5	35m S	Electricity Substation	1952	248018
D	54m E	Electricity Substation	1952	287687
Q	82m W	Electricity Transformers	1972 - 1980	283608
Q	87m W	Electricity Substation	1994	248020
U	96m S	Electricity Substation	1993	248010
U	98m S	Electricity Transformer	1972	250859
G	102m NW	Electricity Transformers	1972	251667
G	103m NW	Electricity Transformer	1972	250878
G	108m NW	Electricity Substation	1985	248027
G	115m W	Electricity Transformer	1980	255836
G	116m W	Electricity Transformer	1972	252333
G	119m W	Electricity Transformer	1980	267602
G	120m W	Electricity Substation	1952 - 1994	273473
G	120m W	Electricity Transformer	1972	255204
G	137m W	Electricity Transformers	1972 - 1980	264662
G	138m W	Electricity Substation	1994	248024
G	161m NW	Electricity Transformers	1972	251666
G	163m W	Electricity Transformers	1972 - 1980	263528
G	164m W	Electricity Substation	1994	248025
G	174m W	Electricity Transformers	1972 - 1980	273832
G	190m W	Electricity Transformers	1980	255837
G	191m W	Electricity Transformers	1972	253897
G	199m W	Electricity Transformers	1972 - 1980	265199
G	201m W	Electricity Substation	1994	248028
G	207m W	Electricity Transformers	1980	253630
G	208m W	Electricity Transformers	1972	255203
G	209m W	Electricity Substation	1994	248015



ID	Location	Land use	Dates present	Group ID
G	210m W	Electricity Transformers	1972 - 1980	282969
G	222m W	Electricity Transformers	1980	291870
X	222m E	Power Station	1985 - 1993	270815
G	223m W	Electricity Transformers	1972	254350
X	223m E	Power Station	1975	260218
G	231m W	Electricity Substation	1994	248022
G	234m W	Electricity Transformers	1972	253054
G	236m W	Electricity Transformers	1972 - 1980	283875
G	237m W	Electricity Substation	1994	248030
G	247m W	Electricity Transformer	1972 - 1980	268682
G	259m W	Electricity Transformer	1972 - 1980	272753
G	261m W	Electricity Substation	1994	248021
X	279m E	Electricity Substation	1952	288232
N	299m SE	Electricity Substation	1985 - 1993	266845
N	299m SE	Electricity Transformers	1975	251668
G	329m W	Electricity Transformers	1980	251665
G	329m W	Electricity Transformer	1972	250880
G	330m W	Electricity Transformers	1972	251664
AB	367m S	Electricity Transformer	1972	250860
AI	383m SW	Electricity Transformer	1972 - 1980	268840
AI	385m SW	Electricity Substation	1994	248016
AE	396m NW	Gas Works	1898	260678
AN	409m E	Electricity Transformer	1975	250884
AE	410m NW	Disused Gas Works	1939	251267
AN	427m E	Electricity Substation	1985	267760
AE	428m NW	Gas Works	1898 - 1909	262911
AN	429m E	Electricity Substation	1993 - 1995	275831
AE	438m NW	Gasometers	1898 - 1939	279285



ID	Location	Land use	Dates present	Group ID
AE	439m NW	Gasometer	1898	251565
AE	443m W	Gasometer	1897 - 1898	288350
AE	445m NW	Gasometer	1898	251566
T	445m SW	Electricity Substation	1972	248009
16	459m S	Electricity Transformer	1972	250858
AL	467m S	Electricity Transformer	1972	250856
AL	474m S	Electricity Transformer	1972	250857

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	6
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 13 >](#)

ID	Location	Land use	Dates present	Group ID
6	37m E	Garage	1952	84956
7	61m SW	Garage	1952 - 1964	80086
AB	346m S	Garage	1952	85649
AO	421m S	Garage	1952	76809



ID	Location	Land use	Dates present	Group ID
AO	422m S	Garage	1972	75549
AO	422m S	Garage	1952	78122

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

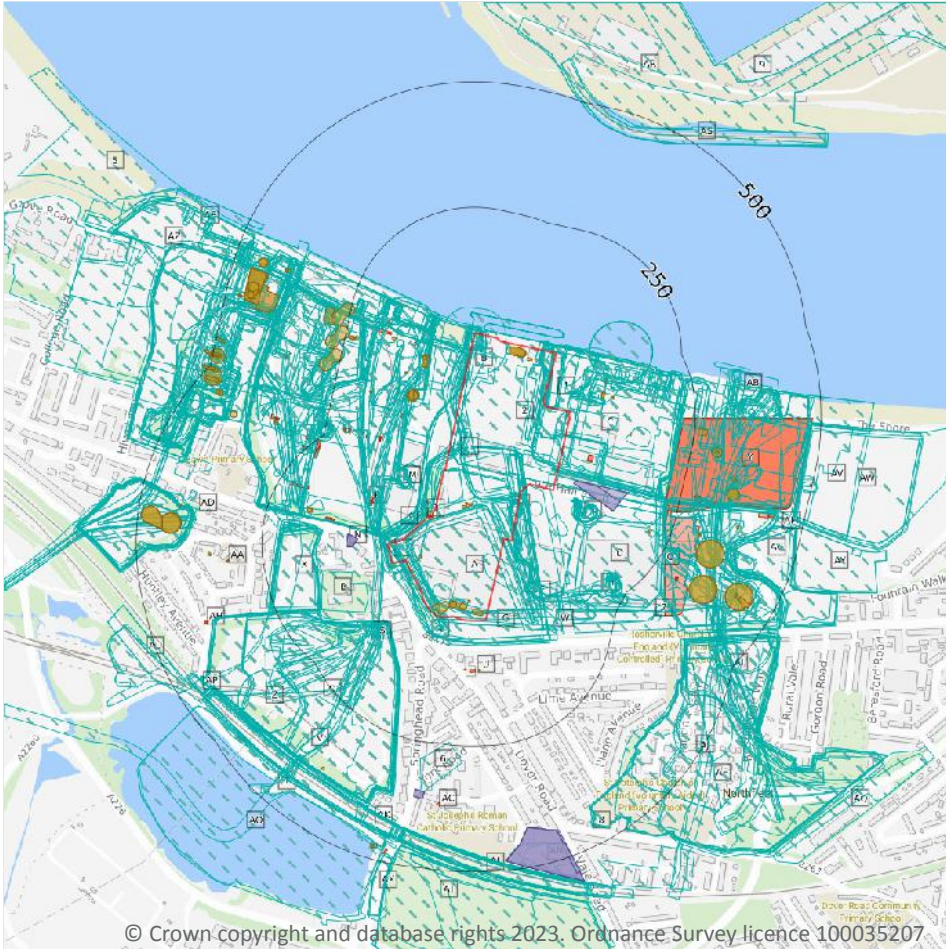
Records within 500m

0

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





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

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

-  Historical industrial land uses
-  Historical tanks
-  Historical energy features
-  Historical garages

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2.1 Historical industrial land uses

Records within 500m

861

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

Features are displayed on the Past land use - un-grouped map on [page 45 >](#)

ID	Location	Land Use	Date	Group ID
1	On site	Tramway Sidings	1938	2259493
2	On site	Mineral Railway Sidings	1966	2240800
A	On site	Brick Works	1895	2173447

ID	Location	Land Use	Date	Group ID
A	On site	Railway Sidings	1895	2202854
A	On site	Brick Works	1923	2178411
A	On site	Brick Works	1923	2265241
A	On site	Unspecified Ground Workings	1946	2134370
A	On site	Brick Works	1907	2178411
A	On site	Railway Sidings	1907	2212158
A	On site	Railway Sidings	1895	2284631
A	On site	Brick Works	1895	2178411
A	On site	Railway Sidings	1865	2219488
A	On site	Brick Works	1916	2178411
A	On site	Tramway Sidings	1916	2272871
A	On site	Railway Sidings	1888	2180279
A	On site	Unspecified Tank	1888	2155360
A	On site	Brick Works	1888	2178411
A	On site	Railway Sidings	1898	2193616
A	On site	Brick Works	1898	2178411
A	On site	Railway Sidings	1898	2279934
A	On site	Brick Works	1898	2178411
A	On site	Unspecified Heap	1955	2137192
A	On site	Paper Mill	1990	2163242
A	On site	Unspecified Mills	1977	2206547
A	On site	Unspecified Mills	1971	2206547
A	On site	Unspecified Commercial/Industrial	1966	2131133
B	On site	Unspecified Foundry	1895	2257006
B	On site	Tramway Sidings	1923	2289529
B	On site	Unspecified Wharf	1865	2261188
B	On site	Unspecified Wharf	1955	2203811
B	On site	Unspecified Foundry	1888	2257006

ID	Location	Land Use	Date	Group ID
B	On site	Unspecified Wharves	1888	2225973
B	On site	Unspecified Wharves	1898	2194823
B	On site	Unspecified Wharves	1898	2194823
B	On site	Railway Sidings	1938	2235239
B	On site	Unspecified Wharves	1938	2267097
B	On site	Railway Sidings	1938	2182970
B	On site	Cement Works	1938	2264284
B	On site	Unspecified Wharves	1938	2267097
B	On site	Unspecified Wharves	1938	2267097
B	On site	Unspecified Wharves	1938	2267097
C	On site	Disused Dockyard	1895	2206513
C	On site	Old Dock	1895	2202877
C	On site	Old Dock	1923	2257119
C	On site	Disused Dock	1923	2164754
C	On site	Paper Mill	1946	2187262
C	On site	Tramway Sidings	1946	2295288
C	On site	Tramway Sidings	1932	2183788
C	On site	Paper Mill	1932	2260367
C	On site	Disused Dockyard	1907	2290228
C	On site	Old Dock	1907	2236667
C	On site	Unspecified Foundry	1895	2140137
C	On site	Disused Dockyard	1895	2175883
C	On site	Old Dock	1895	2276300
C	On site	Unspecified Factory	1865	2151044
C	On site	Dock Yard	1865	2135653
C	On site	Disused Dockyard	1916	2188060
C	On site	Old Dock	1916	2257119
C	On site	Unspecified Heap	1916	2137179



ID	Location	Land Use	Date	Group ID
C	On site	Old Dock	1888	2182299
C	On site	Disused Dockyard	1888	2176821
C	On site	Unspecified Foundry	1898	2238796
C	On site	Disused Dockyard	1898	2288867
C	On site	Old Dock	1898	2276300
C	On site	Unspecified Foundry	1898	2238796
C	On site	Disused Dockyard	1898	2288867
C	On site	Old Dock	1898	2276300
C	On site	Unspecified Mills	1955	2139422
C	On site	Mineral Railway Sidings	1955	2240800
C	On site	Unspecified Ground Workings	1955	2134371
C	On site	Paper Mill	1938	2260367
C	On site	Unspecified Tanks	1990	2218498
C	On site	Unspecified Warehouse	1990	2138636
C	On site	Unspecified Tanks	1977	2218498
C	On site	Unspecified Mill	1977	2273577
C	On site	Railway Sidings	1977	2275768
C	On site	Unspecified Tanks	1971	2218498
C	On site	Unspecified Mill	1971	2273577
C	On site	Railway Sidings	1971	2256057
C	On site	Unspecified Mill	1966	2273577
C	On site	Unspecified Tanks	1966	2218498
D	On site	Disused Cement Works	1946	2263565
E	On site	Unspecified Ground Workings	1946	2292333
E	On site	Unspecified Heap	1895	2250110
E	On site	Unspecified Heap	1865	2137193
E	On site	Unspecified Ground Workings	1888	2195293
E	On site	Unspecified Ground Workings	1898	2202804



ID	Location	Land Use	Date	Group ID
E	On site	Unspecified Ground Workings	1898	2202804
E	On site	Unspecified Heap	1938	2291476
E	On site	Unspecified Heap	1938	2237069
E	On site	Unspecified Heap	1955	2284324
E	On site	Unspecified Heap	1938	2291476
F	On site	Unspecified Ground Workings	1932	2202051
F	On site	Railway Sidings	1865	2254252
G	On site	Rifle Range	1865	2164820
G	On site	Unspecified Heap	1865	2137194
G	On site	Unspecified Tanks	1990	2218516
G	On site	Unspecified Tanks	1977	2236011
G	On site	Unspecified Tanks	1971	2236011
G	On site	Unspecified Tank	1966	2155361
H	On site	Unspecified Ground Workings	1916	2271894
H	On site	Unspecified Ground Workings	1938	2230096
H	On site	Unspecified Ground Workings	1938	2277015
I	On site	Smithy	1888	2262861
I	On site	Smithy	1898	2265865
I	On site	Smithy	1898	2265865
I	On site	Unspecified Pit	1955	2200393
I	On site	Unspecified Pit	1977	2200393
I	On site	Unspecified Pit	1971	2200393
I	On site	Unspecified Pit	1966	2200393
J	On site	Unspecified Tank	1990	2253261
J	On site	Unspecified Tank	1977	2253261
J	On site	Unspecified Tank	1971	2253261
J	On site	Unspecified Tank	1966	2253261
C	1m NE	Cuttings	1865	2129957



ID	Location	Land Use	Date	Group ID
B	2m N	Unspecified Works	1990	2245584
B	2m N	Unspecified Works	1977	2249897
B	2m N	Unspecified Works	1971	2224509
C	3m NE	Unspecified Wharf	1955	2258935
B	3m N	Portland Cement Works	1938	2142882
B	3m N	Cement Works	1916	2201048
B	6m N	Unspecified Wharf	1966	2203811
B	8m N	Unspecified Wharves	1907	2235374
I	8m SW	Smithy	1895	2167463
B	11m N	Unspecified Wharves	1946	2203805
I	12m SW	Smithy	1895	2167464
B	12m N	Unspecified Tank	1865	2155385
B	12m N	Unspecified Wharves	1932	2230920
B	13m SW	Railway Sidings	1971	2198214
I	13m SW	Tunnel	1971	2204151
I	13m SW	Tunnel	1990	2206369
B	13m SW	Railway Sidings	1990	2189766
B	14m N	Cement Works	1907	2212428
B	14m N	Cement Works	1895	2199577
E	16m SE	Lime Kilns	1865	2137927
B	21m SW	Unspecified Commercial/Industrial	1938	2189289
K	21m SW	Tunnels	1865	2164893
B	22m N	Cement Works	1895	2199361
B	22m SW	Tramway Sidings	1932	2172445
B	22m SW	Unspecified Commercial/Industrial	1932	2189289
K	22m SW	Tunnels	1865	2164895
B	23m SW	Railway Sidings	1907	2233255
B	23m SW	Railway Sidings	1895	2273890



ID	Location	Land Use	Date	Group ID
E	23m SE	Unspecified Heap	1865	2137191
B	24m SW	Unspecified Works	1990	2226028
B	24m SW	Unspecified Works	1977	2276056
B	26m N	Unspecified Wharves	1923	2140515
C	26m NE	Chimney	1971	2238457
C	27m NE	Unspecified Ground Workings	1907	2227237
C	27m NE	Unspecified Ground Workings	1895	2274503
C	28m NE	Unspecified Ground Workings	1888	2201011
B	29m SW	Cement Works	1898	2199361
B	29m SW	Cement Works	1898	2199361
B	30m SW	Cement Works	1923	2222770
B	30m SW	Tramway Sidings	1923	2200679
B	31m SW	Railway Sidings	1888	2211643
B	31m SW	Cement Works	1888	2207749
C	31m NE	Unspecified Ground Workings	1898	2273898
C	31m NE	Unspecified Ground Workings	1898	2273898
C	32m NE	Unspecified Ground Workings	1895	2244711
B	33m SW	Tramway Sidings	1946	2217156
C	36m NE	Unspecified Ground Workings	1916	2186884
B	36m SW	Railway Sidings	1898	2232282
B	36m SW	Railway Sidings	1898	2232282
B	38m SW	Tramway Sidings	1916	2281823
C	40m E	Unspecified Tank	1946	2155352
L	42m E	Unspecified Heap	1938	2190527
L	42m E	Unspecified Heap	1938	2190527
L	44m E	Unspecified Ground Workings	1938	2243098
L	44m E	Unspecified Heap	1938	2247467
L	44m E	Unspecified Heap	1938	2247467



ID	Location	Land Use	Date	Group ID
L	45m E	Unspecified Ground Workings	1946	2218651
L	45m E	Unspecified Heap	1932	2247467
L	45m E	Unspecified Heap	1907	2171451
L	45m E	Unspecified Heap	1895	2284571
L	47m E	Unspecified Ground Workings	1916	2226673
B	47m SW	Railway Sidings	1895	2182495
L	49m SE	Unspecified Heap	1865	2137190
L	49m E	Unspecified Ground Workings	1898	2255009
L	49m E	Unspecified Ground Workings	1898	2255009
L	50m E	Unspecified Heap	1955	2228430
M	51m W	Unspecified Heap	1888	2290781
L	51m E	Unspecified Ground Workings	1895	2279092
L	51m E	Unspecified Ground Workings	1865	2181299
L	55m E	Unspecified Heap	1923	2278695
M	57m W	Unspecified Heap	1898	2191624
M	57m W	Unspecified Heap	1898	2191624
M	60m W	Unspecified Heap	1938	2242810
M	60m W	Unspecified Heap	1938	2242810
M	60m W	Unspecified Heap	1938	2242810
M	61m W	Unspecified Heap	1916	2261428
M	61m W	Unspecified Heap	1946	2264641
M	61m W	Unspecified Heap	1932	2214003
M	61m W	Unspecified Heap	1907	2191624
M	61m W	Unspecified Heap	1895	2191624
M	61m W	Unspecified Heap	1938	2247659
M	61m W	Unspecified Heap	1938	2247659
D	62m E	Railway Sidings	1971	2196674
O	62m E	Unspecified Works	1977	2282059



ID	Location	Land Use	Date	Group ID
O	62m E	Unspecified Works	1971	2282059
B	63m W	Railway Sidings	1977	2247460
L	64m E	Unspecified Ground Workings	1888	2279092
M	64m W	Unspecified Heap	1895	2251794
F	64m S	Unspecified Heap	1955	2257578
F	64m S	Unspecified Heap	1946	2256100
P	65m SW	Grave Yard	1865	2145773
C	67m NE	Unspecified Wharf	1990	2269518
C	67m NE	Unspecified Wharf	1977	2269518
C	67m NE	Unspecified Wharf	1971	2269518
C	67m NE	Unspecified Wharf	1966	2269518
F	67m S	Unspecified Heap	1938	2238615
F	69m S	Unspecified Heap	1938	2258960
F	69m S	Unspecified Heap	1938	2258960
F	74m S	Unspecified Heap	1888	2194788
B	75m N	Unspecified Wharves	1888	2257888
B	75m N	Unspecified Wharves	1895	2256295
B	79m N	Unspecified Wharves	1898	2269488
B	79m N	Unspecified Wharves	1898	2269488
B	80m N	Unspecified Wharf	1955	2251318
B	81m NW	Unspecified Tank	1932	2231785
B	81m NW	Unspecified Tank	1907	2243257
Q	82m SW	Chalk Pit	1938	2201799
Q	83m SW	Burial Ground	1977	2242377
Q	83m SW	Unspecified Disused Pit	1990	2185472
Q	83m SW	Unspecified Disused Pit	1977	2185472
B	83m N	Wharves	1916	2143216
B	83m NW	Railway Sidings	1938	2262245



ID	Location	Land Use	Date	Group ID
B	83m N	Railway Sidings	1938	2216955
B	83m N	Unspecified Wharves	1938	2224983
B	83m N	Unspecified Wharves	1938	2224983
Q	83m SW	Chalk Pit	1916	2206811
B	84m NW	Unspecified Tank	1946	2226120
B	84m NW	Unspecified Tank	1938	2178127
Q	84m SW	Chalk Pit	1898	2264989
Q	84m SW	Chalk Pit	1898	2264989
B	85m NW	Unspecified Tank	1955	2222567
Q	85m SW	Tramway Sidings	1907	2269038
Q	85m SW	Chalk Pit	1907	2228865
Q	86m SW	Chalk Pit	1938	2226835
Q	86m SW	Old Chalk Pit	1938	2169483
Q	86m SW	Burial Ground	1955	2214742
Q	86m SW	Burial Ground	1966	2214742
Q	87m SW	Chalk Pit	1923	2255946
Q	88m SW	Chalk Pit	1895	2264989
C	88m E	Unspecified Pit	1865	2126206
Q	89m SW	Tramway Sidings	1946	2210284
Q	89m SW	Old Chalk Pit	1946	2169483
C	90m NE	Chimney	1966	2261280
D	92m SE	Unspecified Works	1990	2202868
Q	92m SW	Chalk Pit	1895	2265909
Q	93m SW	Old Chalk Pit	1932	2195684
S	95m SW	Railway Sidings	1895	2234406
T	95m SW	Tramway Sidings	1938	2193577
Q	99m SW	Chalk Pit	1888	2260049
S	99m SW	Railway Sidings	1888	2229381



ID	Location	Land Use	Date	Group ID
V	99m SW	Tramway Sidings	1932	2210284
Q	100m SW	Tramway Sidings	1938	2210284
D	101m SE	Unspecified Heap	1955	2203412
Q	101m SW	Tramway Sidings	1938	2210284
B	102m W	Mineral Railway Sidings	1966	2164032
S	102m SW	Railway Sidings	1898	2196400
S	102m SW	Railway Sidings	1898	2239648
Q	105m SW	Tramway Sidings	1916	2216135
B	108m NW	Unspecified Wharves	1888	2228901
Q	111m SW	Mineral Railway Sidings	1966	2164033
Q	114m SW	Tramway Sidings	1923	2210284
C	118m E	Unspecified Pit	1865	2126205
B	120m NW	Unspecified Ground Workings	1955	2193520
B	120m NW	Unspecified Ground Workings	1966	2193520
B	122m NW	Unspecified Ground Workings	1932	2214691
B	123m NW	Unspecified Heap	1938	2281542
B	123m NW	Unspecified Heap	1938	2281542
B	126m NW	Unspecified Wharves	1938	2188799
B	126m NW	Unspecified Wharves	1938	2188799
W	128m SE	Unspecified Heap	1946	2226084
X	132m W	Old Chalk Pit	1888	2201073
X	132m W	Old Chalk Pit	1895	2194464
B	133m NW	Unspecified Ground Workings	1938	2251848
B	133m NW	Unspecified Ground Workings	1938	2251848
D	133m SE	Unspecified Ground Workings	1888	2240550
B	133m NW	Chimney	1990	2214577
B	133m NW	Chimney	1977	2214577
B	133m NW	Unspecified Tank	1971	2155384



ID	Location	Land Use	Date	Group ID
W	134m SE	Unspecified Heap	1955	2226084
X	135m W	Unspecified Disused Pit	1990	2214208
X	135m W	Unspecified Disused Pit	1977	2214208
X	135m W	Old Chalk Pit	1898	2174323
X	135m W	Old Chalk Pit	1898	2174323
X	137m W	Unspecified Pit	1923	2275681
X	138m W	Unspecified Pit	1955	2175080
X	138m W	Unspecified Pit	1966	2175080
X	144m W	Old Chalk Pit	1895	2201073
B	145m W	Unspecified Ground Workings	1865	2134372
B	148m W	Unspecified Pit	1955	2248034
B	148m W	Unspecified Pit	1966	2248034
B	155m NW	Unspecified Wharves	1898	2173374
B	155m NW	Unspecified Wharves	1898	2173374
D	156m SE	Unspecified Ground Workings	1895	2240550
B	159m W	Railway Sidings	1895	2221164
B	159m NW	Unspecified Wharves	1932	2233409
B	159m W	Unspecified Commercial/Industrial	1946	2177592
D	161m SE	Unspecified Ground Workings	1932	2224506
B	163m W	Railway Sidings	1888	2212090
B	164m NW	Unspecified Wharf	1865	2288737
B	164m NW	Tramway Sidings	1865	2229224
B	170m W	Railway Sidings	1898	2231608
B	170m W	Railway Sidings	1898	2232469
B	179m W	Cement Works	1923	2222770
B	179m W	Unspecified Heaps	1955	2268760
B	179m W	Unspecified Heaps	1966	2268760
B	181m W	Cement Works	1888	2199361



ID	Location	Land Use	Date	Group ID
B	182m W	Tunnel	1971	2151567
B	183m W	Cement Works	1938	2260164
B	184m NW	Unspecified Wharves	1946	2213252
B	185m W	Cement Works	1898	2199361
B	185m W	Cement Works	1898	2199361
5	189m NW	Unspecified Wharf	1895	2270164
B	190m NW	Tramway Sidings	1865	2178519
B	193m W	Railway Sidings	1888	2190216
B	194m NW	Unspecified Works	1955	2196647
B	194m NW	Unspecified Works	1966	2196647
B	196m W	Brick Works	1895	2213430
D	197m SE	Unspecified Pit	1865	2126202
B	198m W	Railway Sidings	1898	2200731
B	198m W	Railway Sidings	1898	2200731
B	199m NW	Brick Works	1895	2211016
B	199m NW	Cement Works	1907	2271974
D	199m SE	Unspecified Heap	1938	2200919
D	199m SE	Unspecified Heap	1938	2262977
D	199m SE	Unspecified Heap	1938	2262977
Y	201m E	Cement Works	1916	2172745
D	203m SE	Unspecified Ground Workings	1898	2236289
D	203m SE	Unspecified Ground Workings	1898	2265691
B	203m W	Railway Sidings	1895	2200731
D	203m SE	Unspecified Heap	1946	2284826
D	203m SE	Unspecified Heap	1895	2274163
Y	204m E	Cement Works	1907	2178945
D	206m SE	Unspecified Heap	1907	2277284
B	207m NW	Chimney	1990	2276814



ID	Location	Land Use	Date	Group ID
B	207m NW	Chimney	1977	2276814
B	207m NW	Unspecified Tank	1971	2155386
B	207m W	Unspecified Ground Workings	1865	2134373
Y	208m E	Cement Works	1923	2261569
D	210m SE	Unspecified Heap	1923	2200919
B	211m W	Unspecified Pit	1895	2126199
O	213m E	White Lead Works	1895	2178157
B	217m W	Gravel Pit	1966	2139095
B	217m W	Refuse Heap	1955	2213837
Y	218m E	Power Station	1977	2196236
O	220m E	Whiting Works	1916	2239701
O	220m E	Whiting Works	1938	2183039
O	220m E	Whiting Works	1938	2217810
Y	220m E	Unspecified Works	1971	2289828
Y	220m E	Unspecified Works	1966	2289828
O	221m E	Disused Cement Works	1932	2171407
O	222m E	Disused Cement Works	1938	2263565
B	222m NW	Gas Works	1895	2135574
O	223m E	Lead Works	1898	2173024
O	223m E	Lead Works	1898	2173024
O	223m E	Railway Sidings	1865	2180092
O	226m E	Unspecified Commercial/Industrial	1907	2241032
O	226m E	White Lead Works	1895	2284295
O	227m E	White Lead Works	1888	2284295
B	227m NW	Unspecified Wharves	1938	2256480
B	227m NW	Unspecified Wharves	1938	2256480
Y	227m E	Railway Sidings	1907	2278942
B	228m NW	Unspecified Wharves	1932	2256480



ID	Location	Land Use	Date	Group ID
O	228m E	Lime Kilns	1865	2137925
B	229m NW	Railway Sidings	1938	2231939
B	229m NW	Railway Sidings	1938	2293485
B	229m NW	Railway Sidings	1916	2253026
B	234m W	Unspecified Heap	1907	2225807
B	234m W	Unspecified Heap	1895	2225807
O	234m E	Railway Sidings	1916	2207145
B	236m W	Unspecified Ground Workings and Heap	1888	2138421
O	236m E	Whiting Works	1923	2182525
B	237m W	Unspecified Heap	1898	2225807
B	237m W	Unspecified Heap	1898	2225807
B	237m W	Unspecified Heap	1916	2224608
B	238m NW	Unspecified Tanks	1990	2203595
B	238m NW	Unspecified Tanks	1977	2203595
B	238m NW	Unspecified Tanks	1971	2203595
B	239m W	Unspecified Heap	1938	2198347
B	239m W	Unspecified Heap	1938	2198347
B	240m W	Unspecified Heap	1938	2177199
Y	240m E	Power Station	1990	2196236
B	240m W	Refuse Heap	1907	2283287
B	242m W	Unspecified Heap	1946	2260825
B	242m W	Unspecified Ground Workings	1932	2260766
B	243m W	Unspecified Ground Workings	1938	2283864
B	243m W	Unspecified Ground Workings	1938	2283864
B	245m W	Unspecified Heap	1895	2284148
6	245m S	Barrack Field	1865	2162777
B	246m W	Refuse Heap	1895	2266317
B	246m W	Unspecified Heap	1946	2198347



ID	Location	Land Use	Date	Group ID
B	249m W	Refuse Heap	1898	2185867
B	249m W	Refuse Heap	1898	2185867
Y	249m E	Cement Works	1923	2276410
B	251m NW	Unspecified Ground Workings	1865	2278654
B	252m NW	Unspecified Ground Workings	1888	2289276
B	252m NW	Unspecified Heap	1895	2231545
B	255m W	Unspecified Heap	1865	2137189
B	256m NW	Unspecified Ground Workings	1898	2260961
B	256m NW	Unspecified Ground Workings	1898	2260961
B	258m W	Unspecified Heap	1955	2273343
B	258m W	Unspecified Heap	1966	2273343
B	258m W	Refuse Heap	1895	2266317
O	258m E	Unspecified Ground Workings	1932	2290262
B	258m NW	Unspecified Heap	1923	2285804
O	260m E	Unspecified Pit	1946	2126201
B	260m NW	Unspecified Heaps	1907	2160807
B	262m NW	Railway Sidings	1888	2287501
O	262m E	Unspecified Ground Workings	1938	2271529
O	262m E	Unspecified Ground Workings	1938	2271529
B	262m NW	Unspecified Ground Workings	1916	2187722
B	265m NW	Unspecified Ground Workings	1895	2278654
B	266m NW	Unspecified Tanks	1888	2270541
B	266m NW	Railway Sidings	1898	2203069
B	266m NW	Railway Sidings	1898	2182140
B	267m NW	Railway Sidings	1955	2208314
B	267m NW	Unspecified Tanks	1895	2270541
B	268m NW	Unspecified Tanks	1923	2269182
B	270m NW	Unspecified Tanks	1898	2270541



ID	Location	Land Use	Date	Group ID
B	270m NW	Unspecified Tanks	1898	2270541
B	270m NW	Unspecified Tanks	1907	2193341
O	272m E	Railway Sidings	1895	2268619
B	274m NW	Unspecified Heap	1946	2244889
B	274m NW	Unspecified Heap	1938	2244889
B	274m NW	Unspecified Heap	1938	2244889
B	274m NW	Railway Sidings	1966	2239807
B	274m NW	Tanks	1916	2162274
B	275m NW	Unspecified Heap	1932	2247677
B	276m NW	Unspecified Ground Workings	1946	2248616
B	277m NW	Unspecified Heap	1955	2219062
B	277m NW	Unspecified Heap	1966	2219062
B	277m NW	Unspecified Tanks	1895	2270541
Y	278m E	Railway Sidings	1895	2178142
O	280m SE	Tramway Sidings	1932	2270302
O	282m E	Railway Sidings	1898	2249046
O	282m E	Railway Sidings	1898	2249046
Y	284m E	Disused Cement Works	1938	2258554
O	286m E	Railway Sidings	1888	2230386
Y	289m E	Unspecified Tank	1946	2272305
Y	290m E	Tank	1916	2140334
O	290m E	Tramway Sidings	1923	2209466
Y	294m E	Unspecified Tank	1932	2223889
Y	294m E	Unspecified Tank	1907	2264045
Y	295m E	Unspecified Works	1971	2223965
Y	295m E	Unspecified Works	1966	2223965
Y	296m E	Unspecified Tank	1938	2243937
B	296m W	Unspecified Heaps	1865	2160806



ID	Location	Land Use	Date	Group ID
Y	297m E	Unspecified Tank	1923	2223889
O	301m E	Unspecified Works	1990	2202868
V	305m SW	Cuttings	1955	2250541
V	305m SW	Cuttings	1966	2250541
Y	305m E	Disused Cement Works	1932	2174372
Y	306m E	Disused Cement Works	1946	2248542
Z	306m SW	Burial Ground	1977	2276672
Z	306m SW	Burial Ground	1971	2276672
B	307m NW	Unspecified Pit	1923	2287279
B	308m NW	Unspecified Pit	1907	2266377
7	310m SE	Unspecified Heap	1955	2137198
O	310m E	Unspecified Tanks	1990	2220603
O	310m E	Unspecified Tanks	1977	2186359
B	313m NW	Unspecified Pit	1916	2287279
O	315m E	Whiting Works	1895	2224774
AB	321m E	Unspecified Wharf	1895	2189541
AB	322m E	Unspecified Wharves	1938	2267802
AB	322m E	Unspecified Wharves	1938	2267802
AB	323m E	Unspecified Wharf	1946	2184902
AB	323m E	Unspecified Wharf	1895	2197099
O	324m E	Unspecified Commercial/Industrial	1916	2241032
AB	326m E	Unspecified Wharf	1888	2188208
O	330m E	Whiting Works	1907	2182525
O	330m E	Whiting Works	1895	2224774
AB	331m E	Railway Building	1895	2150385
AB	336m E	Unspecified Wharf	1898	2197099
AB	336m E	Unspecified Wharf	1898	2197099
Y	337m E	Tank	1916	2140336



ID	Location	Land Use	Date	Group ID
Y	338m E	Unspecified Tank	1946	2192348
Y	338m E	Unspecified Tanks	1932	2207974
Y	338m E	Unspecified Tanks	1938	2207974
Y	338m E	Unspecified Tank	1938	2198996
Y	339m E	Unspecified Pit	1895	2196465
Y	341m E	Unspecified Pit	1865	2246996
Y	342m E	Unspecified Tank	1955	2257393
Y	343m E	Unspecified Tank	1932	2268628
Y	343m E	Unspecified Tank	1907	2216981
AB	344m E	Railway Sidings	1865	2277546
Y	344m E	Unspecified Tank	1923	2263596
Y	345m E	Unspecified Pit	1898	2291256
Y	345m E	Unspecified Pit	1898	2291256
O	347m E	Whiting Works	1898	2253968
O	347m E	Whiting Works	1898	2253968
O	349m E	Railway Sidings	1938	2292502
B	349m W	Unspecified Heap	1932	2280363
Y	349m E	Unspecified Pit	1895	2193764
O	350m E	Whiting Works	1888	2208554
Y	350m E	Unspecified Pit	1888	2193764
B	350m W	Unspecified Heap	1938	2258662
B	350m W	Unspecified Heap	1938	2258662
B	352m W	Unspecified Ground Workings	1916	2253710
AB	356m E	Chimney	1990	2253934
AB	356m E	Chimney	1977	2253934
AB	356m E	Chimney	1971	2253934
AB	356m E	Chimney	1966	2253934
B	368m NW	Railway Sidings	1938	2194554



ID	Location	Land Use	Date	Group ID
AE	368m NW	Unspecified Works	1990	2267204
AE	368m NW	Unspecified Works	1977	2267204
B	368m NW	Unspecified Wharf	1895	2174813
AB	368m E	Unspecified Wharf	1932	2239534
B	368m NW	Railway Sidings	1938	2194554
B	369m NW	Unspecified Wharf	1946	2227580
B	369m NW	Unspecified Wharf	1932	2267120
O	369m E	Tank	1916	2140335
AB	369m E	Quay	1865	2139307
AF	370m SE	Chalk Pit	1938	2286029
AG	371m E	Old Chalk Pit	1895	2250767
B	373m NW	Refuse Heap	1938	2281695
B	373m NW	Refuse Heap	1938	2281695
B	374m NW	Refuse Heap	1946	2290801
O	374m E	Unspecified Tank	1907	2155355
AG	378m E	Unspecified Works	1955	2270972
B	379m W	Cement Works	1938	2245417
AB	380m E	Unspecified Wharf	1895	2282260
B	380m NW	Unspecified Wharf	1888	2250458
AG	380m E	Unspecified Ground Workings	1907	2280390
AG	380m E	Old Chalk Pit	1895	2287516
B	381m NW	Unspecified Wharf	1895	2182716
AD	381m W	Unspecified Tank	1938	2155300
B	381m W	Cement Works	1916	2198904
AG	382m E	Old Chalk Pit	1898	2234948
AG	382m E	Old Chalk Pit	1898	2234948
B	382m W	Unspecified Pit	1865	2126200
AG	382m E	Chalk Pit	1888	2157766



ID	Location	Land Use	Date	Group ID
V	383m SW	Tunnel	1990	2218238
V	383m SW	Tunnel	1977	2218238
AD	384m W	Unspecified Quarry	1888	2270926
AD	384m W	Tramway Sidings	1888	2189056
B	384m NW	Unspecified Wharf	1865	2250458
B	385m NW	Gas Works	1907	2197699
B	385m NW	Gas Works	1895	2197699
B	386m NW	Cement Works	1923	2227374
B	386m NW	Unspecified Wharf	1898	2227582
B	386m NW	Unspecified Wharf	1898	2227582
B	386m NW	Unspecified Tank	1966	2205104
AD	387m W	Quarry	1916	2143070
AF	387m SE	Old Chalk Pit	1932	2272466
B	387m NW	Unspecified Tank	1946	2264603
V	387m SW	Tunnel	1946	2259364
B	388m NW	Unspecified Tank	1932	2269509
AI	388m SE	Old Chalk Pit	1895	2291323
AF	388m SE	Unspecified Pit	1966	2254534
V	388m SW	Tunnel	1938	2259364
AF	389m SE	Old Chalk Pit	1946	2274267
AF	389m SE	Unspecified Pit	1955	2254534
AJ	389m SE	Disused Workings	1990	2144633
AJ	389m SE	Unspecified Pit	1990	2241389
AJ	389m SE	Unspecified Pit	1977	2241389
AJ	389m SE	Unspecified Pit	1971	2241389
V	389m SW	Tunnel	1932	2237676
V	389m SW	Tramway Sidings	1946	2210284
AD	389m W	Unspecified Quarry	1938	2212291



ID	Location	Land Use	Date	Group ID
AD	390m W	Unspecified Quarry	1898	2290194
AD	390m W	Unspecified Quarry	1898	2290194
AF	390m SE	Old Chalk Pit	1938	2274267
B	390m NW	Gas Works	1923	2197699
AD	390m W	Unspecified Quarry	1923	2222565
B	390m NW	Portland Cement Works	1938	2142881
B	391m NW	Unspecified Commercial/Industrial	1990	2131137
B	391m NW	Unspecified Works	1977	2285621
B	391m NW	Unspecified Works	1971	2285621
AD	391m W	Railway Sidings	1907	2272832
AD	391m W	Railway Sidings	1895	2272832
AD	391m W	Unspecified Old Quarry	1946	2240083
AD	391m W	Unspecified Old Quarry	1932	2204295
AD	391m W	Unspecified Quarry	1907	2290194
AD	391m W	Unspecified Quarry	1895	2290194
AD	392m W	Unspecified Quarry	1990	2180631
AD	392m W	Unspecified Old Quarry	1938	2219695
B	392m NW	Cement Works	1907	2198904
B	392m NW	Railway Sidings	1895	2201192
B	392m NW	Cement Works	1895	2190489
B	392m NW	Cement Works	1938	2255887
AD	393m W	Tramway Sidings	1923	2270090
B	393m NW	Cement Works	1932	2259850
AD	393m W	Unspecified Tank	1946	2155299
B	394m W	Unspecified Tank	1990	2178010
B	394m W	Unspecified Tank	1977	2178010
B	394m W	Unspecified Tank	1971	2178010
B	394m NW	Cement Works	1946	2269578



ID	Location	Land Use	Date	Group ID
AI	394m SE	Unspecified Works	1990	2227273
AD	394m W	Unspecified Ground Workings	1955	2134375
AD	394m W	Unspecified Pit	1966	2234234
AD	394m W	Unspecified Quarry	1938	2230336
B	395m NW	Brick Works	1898	2267552
B	395m NW	Brick Works	1898	2267552
B	396m NW	Railway Sidings	1888	2206474
AD	396m W	Unspecified Tank	1932	2155298
AI	396m SE	Old Chalk Pit	1898	2283604
AI	396m SE	Old Chalk Pit	1898	2283604
AF	396m SE	Chalk Pit	1916	2291806
B	397m NW	Gas Works	1916	2197699
O	397m E	Unspecified Pit	1971	2126194
V	399m SW	Cuttings	1907	2192325
V	399m SW	Cuttings	1895	2238165
B	399m NW	Tramway Sidings	1946	2244792
AI	400m SE	Old Chalk Pit	1888	2283604
B	400m NW	Railway Sidings	1898	2284790
B	400m NW	Railway Sidings	1898	2284790
B	400m NW	Tramway Sidings	1923	2280216
AK	400m SW	Cuttings	1938	2237041
AI	400m SE	Old Chalk Pit	1895	2283604
V	401m SW	Cuttings	1938	2251327
AD	401m W	Tramway Sidings	1895	2189056
AD	401m W	Unspecified Quarry	1895	2222667
V	401m SW	Cuttings	1895	2271612
B	401m W	Brick Works	1888	2266509
B	402m NW	Railway Sidings	1907	2256771



ID	Location	Land Use	Date	Group ID
T	402m SW	Cuttings	1946	2170626
AF	402m SE	Chalk Pit	1907	2182199
AK	402m S	Cuttings	1932	2264051
AD	402m W	Tramway Sidings	1898	2189056
AD	402m W	Tramway Sidings	1898	2189056
B	403m W	Railway Sidings	1916	2223194
B	403m NW	Gas Works	1895	2280294
B	403m NW	Railway Sidings	1895	2170939
B	404m W	Unspecified Pit	1895	2173101
T	404m SW	Cuttings	1932	2248862
AF	404m SE	Chalk Pit	1923	2231607
T	404m SW	Cuttings	1938	2248116
V	405m SW	Cuttings	1865	2186329
B	405m NW	Railway Sidings	1938	2185989
V	405m SW	Cuttings	1923	2179093
O	405m SE	Lime Kiln	1865	2166925
AB	405m E	Chimney	1990	2172660
AB	405m E	Chimney	1977	2172660
AB	405m E	Chimney	1971	2172660
AB	405m E	Chimney	1966	2172660
B	406m NW	Railway Sidings	1938	2185989
O	406m SE	Unspecified Tank	1895	2155359
B	407m W	Unspecified Ground Workings	1938	2200630
B	407m W	Unspecified Ground Workings	1938	2200630
AL	408m S	Cuttings	1938	2212837
AB	408m E	Unspecified Wharf	1946	2250583
B	409m W	Unspecified Pit	1923	2295096
B	409m W	Unspecified Ground Workings	1946	2195957



ID	Location	Land Use	Date	Group ID
AD	409m W	Unspecified Tanks	1990	2288161
AI	409m SE	Unspecified Works	1977	2227273
B	410m W	Unspecified Ground Workings	1938	2293261
B	410m W	Unspecified Ground Workings	1938	2293261
AK	411m S	Cuttings	1955	2274099
AK	411m S	Cuttings	1990	2250911
AK	411m S	Cuttings	1977	2250911
AK	411m S	Cuttings	1971	2250911
AL	411m S	Cuttings	1966	2256839
B	411m W	Unspecified Ground Workings	1932	2227340
B	411m W	Unspecified Ground Workings	1907	2187583
AE	411m NW	Unspecified Wharf	1946	2174998
B	412m W	Clay Mill	1865	2166682
B	413m W	Unspecified Ground Workings	1916	2245674
AD	413m W	Unspecified Tanks	1977	2221777
AD	413m W	Unspecified Tanks	1971	2221777
O	413m SE	Unspecified Tanks	1932	2277635
B	413m NW	Unspecified Wharf	1938	2269449
B	413m NW	Unspecified Wharf	1938	2284946
O	415m SE	Unspecified Tanks	1938	2198991
AI	415m SE	Tunnel	1938	2186953
AI	416m SE	Tunnel	1916	2214375
B	418m W	Unspecified Pit	1990	2244611
B	418m W	Unspecified Pit	1977	2244611
B	418m W	Unspecified Pit	1971	2244611
B	418m NW	Gas Works	1888	2275082
B	418m W	Unspecified Pit	1865	2126197
AI	420m SE	Tunnel	1938	2222826



ID	Location	Land Use	Date	Group ID
AI	421m SE	Tunnel	1932	2201075
O	421m SE	Unspecified Tank	1895	2155358
AI	422m SE	Tunnel	1946	2222826
B	422m NW	Gas Works	1898	2197699
B	422m NW	Gas Works	1898	2197699
AL	423m S	Cuttings	1895	2225362
AL	426m S	Cuttings	1916	2238478
AL	427m S	Cuttings	1898	2256878
AL	427m S	Cuttings	1898	2287436
B	427m W	Unspecified Works	1955	2181006
B	427m W	Unspecified Pit	1955	2220863
B	427m W	Cement Works	1966	2191753
AL	427m S	Cuttings	1888	2173593
B	428m NW	Gas Works	1865	2196446
AL	428m S	Cuttings	1865	2173593
AI	428m SE	Tunnel	1923	2214375
AL	428m S	Cuttings	1946	2182780
AL	428m S	Cuttings	1932	2182780
AL	428m S	Cuttings	1907	2182780
AL	428m S	Cuttings	1895	2265791
AL	428m S	Cuttings	1938	2177141
B	428m W	Unspecified Ground Workings	1907	2201701
AL	428m S	Cuttings	1955	2177141
AL	428m S	Cuttings	1990	2177141
AL	428m S	Cuttings	1977	2177141
AL	428m S	Cuttings	1971	2177141
B	429m NW	Unspecified Pit	1955	2126198
B	429m W	Brick Field	1865	2146742



ID	Location	Land Use	Date	Group ID
AI	429m SE	Tunnel	1907	2221121
AJ	430m SE	Unspecified Workings	1977	2151480
B	430m NW	Gasometers	1888	2219354
B	431m NW	Gasometer	1907	2267711
B	431m NW	Gasometer	1895	2251285
AB	431m E	Unspecified Wharf	1932	2240138
AI	432m SE	Unspecified Quarry	1865	2145147
AO	432m SW	Chalk Pit	1932	2221295
B	433m NW	Unspecified Tank	1971	2245813
AO	434m SW	Chalk Pit	1938	2221295
B	435m NW	Gasometers	1898	2246274
B	435m NW	Gasometers	1898	2246274
B	435m NW	Unspecified Tank	1966	2245813
B	436m NW	Gasometer	1923	2198636
B	436m NW	Unspecified Tank	1907	2189915
B	436m NW	Unspecified Tank	1895	2178668
B	436m NW	Unspecified Tanks	1932	2295240
AM	437m E	Engineering Works	1946	2142111
AP	437m SW	Cuttings	1888	2238616
AI	437m SE	Railway Sidings	1895	2236870
B	437m NW	Unspecified Tanks	1946	2289538
AL	437m S	Cuttings	1923	2177141
AP	438m SW	Cuttings	1895	2275660
AP	439m SW	Cuttings	1946	2188749
B	439m W	Unspecified Tank	1888	2221871
B	440m W	Unspecified Tank	1932	2173552
B	440m W	Unspecified Tank	1907	2223911
B	440m W	Unspecified Tank	1895	2281766



ID	Location	Land Use	Date	Group ID
B	440m W	Unspecified Tank	1923	2236118
AP	440m SW	Cuttings	1932	2193908
AQ	440m SE	Tramway Sidings	1946	2204626
B	441m NW	Gasometers	1916	2201676
AI	441m SE	Railway Sidings	1865	2170158
B	441m NW	Unspecified Tank	1923	2249129
B	441m W	Unspecified Ground Workings	1865	2231370
B	441m NW	Gasometer	1895	2210501
AP	444m SW	Cuttings	1895	2268145
B	444m NW	Gasometer	1865	2251285
B	444m W	Unspecified Tank	1898	2182614
B	444m W	Unspecified Tank	1898	2182614
B	444m W	Unspecified Tank	1946	2206358
AD	445m W	Unspecified Pit	1865	2212720
AQ	446m SE	Tramway Sidings	1938	2243934
B	447m W	Unspecified Tank	1938	2206358
B	447m NW	Gasometer	1895	2222190
B	448m W	Unspecified Tank	1938	2206358
AF	448m SE	Railway Sidings	1907	2276868
AI	449m SE	Unspecified Pits	1955	2141813
AN	450m S	Chalk Pit	1932	2222966
B	450m W	Unspecified Tanks	1895	2176477
B	451m W	Unspecified Tank	1865	2155362
O	452m SE	Unspecified Tanks	1932	2284856
B	452m NW	Unspecified Industrial/Commercial	1888	2164943
O	453m SE	Unspecified Tanks	1938	2280916
AN	453m S	Chalk Pit	1938	2222966
AF	453m SE	Railway Sidings	1923	2255519



ID	Location	Land Use	Date	Group ID
AR	454m NE	Railway Sidings	1955	2267789
AR	454m NE	Railway Sidings	1966	2267789
AS	455m NE	Railway Sidings	1982	2257573
AS	455m NE	Railway Sidings	1992	2257573
AN	455m S	Refuse Heap	1946	2246271
AK	457m S	Tunnel	1946	2151572
B	457m W	Unspecified Pit	1895	2169819
B	459m W	Unspecified Tanks	1888	2194428
B	459m W	Unspecified Tanks	1895	2192420
AT	461m S	Tramway Sidings	1946	2151152
AT	461m S	Chalk Pit	1946	2294193
AT	461m S	Gravel Pit	1977	2139097
B	462m W	Unspecified Tanks	1990	2255661
B	462m W	Unspecified Tanks	1977	2259554
B	462m W	Unspecified Tanks	1971	2226113
B	463m W	Unspecified Tanks	1898	2201962
B	463m W	Unspecified Tanks	1898	2236772
B	465m NW	Railway Sidings	1865	2222502
O	466m SE	Unspecified Ground Workings	1955	2134364
AK	466m S	Pump House	1990	2168094
B	468m W	Railway Sidings	1907	2252281
B	468m W	Railway Sidings	1895	2251914
AU	469m SW	Railway Sidings	1990	2188509
AU	469m SW	Railway Sidings	1977	2188509
AK	469m S	Pumping House	1946	2165293
B	470m W	Railway Sidings	1888	2192901
AT	470m S	Unspecified Ground Workings	1955	2227645
AT	470m S	Unspecified Ground Workings	1966	2227645



ID	Location	Land Use	Date	Group ID
9	470m N	Railway Sidings	1946	2249066
AI	471m SE	Tunnel	1938	2183707
B	472m W	Tunnel	1923	2259105
AV	472m E	Tyre Works	1932	2182901
AL	472m S	Chalk Pit	1932	2281142
AW	473m E	Electric Cable Works	1938	2176153
AL	473m S	Chalk Pit	1938	2281142
AW	473m E	Electric Cable Works	1916	2233623
AW	473m E	Printing Works	1938	2221904
AE	473m NW	Unspecified Wharf	1938	2178135
AE	473m NW	Unspecified Wharf	1938	2178135
AV	474m E	Tyre Works	1946	2291549
10	474m SW	Pump House	1990	2168095
AV	474m E	Unspecified Pit	1916	2238306
AE	475m NW	Unspecified Wharf	1932	2233903
AG	476m E	Unspecified Heap	1865	2137199
B	476m NW	Unspecified Tanks	1888	2175225
B	476m W	Railway Sidings	1898	2264451
B	476m W	Railway Sidings	1898	2214748
AV	476m E	Unspecified Works	1955	2160150
B	477m NW	Unspecified Tanks	1895	2211867
B	478m W	Unspecified Tanks	1888	2199678
AU	478m SW	Old Chalk Pit	1946	2165646
AW	478m E	Electric Cable Works	1907	2241347
AV	479m E	Unspecified Pit	1907	2249288
B	479m W	Unspecified Tanks	1895	2216730
B	480m NW	Unspecified Tanks	1923	2283061
B	480m NW	Tramway Sidings	1946	2268642



ID	Location	Land Use	Date	Group ID
B	480m NW	Cement Works	1895	2190489
AW	480m E	Electric Cable Works	1923	2195494
B	480m W	Railway Sidings	1923	2291062
AN	481m S	Refuse Heap	1966	2200866
AV	481m E	Unspecified Pit	1923	2238306
B	481m NW	Unspecified Tanks	1898	2188352
B	481m NW	Unspecified Tanks	1898	2182105
B	481m W	Tunnel	1946	2223839
B	481m W	Unspecified Tanks	1923	2228776
AX	482m S	Cuttings	1938	2179832
B	482m NW	Unspecified Tanks	1907	2228774
B	482m W	Tunnel	1938	2246210
B	483m W	Tunnel	1932	2223839
B	483m W	Tunnel	1907	2258760
B	483m NW	Unspecified Tank	1938	2155383
B	483m W	Unspecified Tanks	1898	2216730
B	483m W	Unspecified Tanks	1898	2216730
B	484m W	Unspecified Tanks	1907	2254171
B	484m NW	Unspecified Tanks	1938	2206761
B	484m NW	Tanks	1916	2162275
B	485m W	Railway Sidings	1895	2203719
B	485m NW	Unspecified Tanks	1923	2221188
AU	486m SW	Unspecified Pit	1966	2126196
AY	486m E	Engineering Works	1932	2262564
AZ	487m NW	Cement Works	1898	2205395
AZ	487m NW	Cement Works	1898	2205395
B	487m NW	Unspecified Tanks	1907	2172383
B	487m W	Tunnel	1938	2224324



ID	Location	Land Use	Date	Group ID
B	487m W	Tunnel	1916	2258760
B	487m W	Tunnel	1938	2223839
AX	487m S	Cuttings	1938	2217009
AY	487m E	Engineering Works	1938	2262564
AX	488m S	Cuttings	1898	2294425
AX	488m S	Cuttings	1898	2294425
B	489m NW	Unspecified Tank	1938	2155381
B	489m W	Unspecified Tank	1938	2155363
B	490m NW	Unspecified Tanks	1938	2209059
B	490m NW	Unspecified Tank	1938	2155382
B	490m W	Unspecified Tanks	1938	2277130
B	490m W	Tanks	1916	2162288
B	490m NW	Tanks	1916	2162273
B	494m W	Unspecified Quarry	1865	2145149
B	496m W	Unspecified Ground Workings	1923	2282743
B	497m W	Unspecified Tank	1938	2155364
B	497m NW	Unspecified Tank	1938	2155379
AU	498m SW	Unspecified Ground Workings	1955	2134374

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

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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 45 >](#)

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tank	1898	369226
A	On site	Unspecified Tank	1897	391166



ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tank	1909	369227
A	On site	Unspecified Tank	1909	391166
C	On site	Tanks	1960	382860
C	On site	Tanks	1972	382860
C	On site	Tanks	1964	382860
C	On site	Tanks	1985	382860
C	On site	Tanks	1985	378147
C	On site	Unspecified Tank	1985	369190
G	On site	Unspecified Tank	1959	381832
G	On site	Tanks	1993	378184
G	On site	Tanks	1993	378185
G	On site	Unspecified Tank	1993	369230
G	On site	Tanks	1993	378183
G	On site	Unspecified Tank	1973	369229
G	On site	Unspecified Tank	1973	381832
G	On site	Unspecified Tank	1964	407667
I	On site	Unspecified Tank	1993	369228
3	0m SW	Tanks	1993	378153
C	69m NE	Unspecified Tank	1952	387528
C	69m NE	Unspecified Tank	1952	387528
B	78m NW	Tanks	1897	406759
B	82m NW	Unspecified Tank	1952	403906
B	82m NW	Tanks	1898	406759
B	83m NW	Unspecified Tank	1952	385078
B	84m NW	Unspecified Tank	1933	405527
B	84m NW	Unspecified Tank	1939	405527
C	88m NE	Unspecified Tank	1952	397618
C	88m NE	Unspecified Tank	1972	369196



ID	Location	Land Use	Date	Group ID
C	89m NE	Unspecified Tank	1952	397618
B	90m NW	Unspecified Tank	1952	385078
U	98m S	Unspecified Tank	1865	369231
P	107m SW	Unspecified Tank	1980	409391
P	108m SW	Unspecified Tank	1994	409391
B	112m NW	Unspecified Tank	1897	369195
B	116m NW	Unspecified Tank	1898	369194
C	125m E	Unspecified Tank	1973	369197
B	147m NW	Unspecified Tank	1972	369191
B	163m W	Tanks	1980	386124
B	164m W	Tanks	1994	386124
B	168m NW	Unspecified Tank	1972	369192
B	175m NW	Unspecified Tank	1897	410620
B	175m NW	Unspecified Tank	1909	410620
O	205m E	Unspecified Tank	1952	384244
O	205m E	Unspecified Tank	1952	384244
B	227m NW	Tanks	1898	380616
B	229m NW	Tanks	1909	380616
B	231m NW	Tanks	1898	380616
B	242m NW	Tanks	1972	409855
B	244m NW	Tanks	1972	378197
B	247m NW	Tanks	1972	378196
Y	256m E	Unspecified Tank	1985	369189
B	277m NW	Tanks	1898	409855
Y	291m E	Unspecified Tank	1909	396103
Y	298m E	Unspecified Tank	1933	394287
Y	298m E	Unspecified Tank	1939	394287
O	303m E	Tanks	1985	402860



ID	Location	Land Use	Date	Group ID
O	303m E	Tanks	1993	402860
O	303m E	Tanks	1975	402860
O	309m E	Unspecified Tank	1975	409783
O	310m E	Unspecified Tank	1985	409783
AA	317m W	Unspecified Tank	1980	400171
Y	318m E	Unspecified Tank	1909	369180
AA	319m W	Unspecified Tank	1994	400171
B	323m W	Unspecified Tank	1980	385259
B	325m W	Unspecified Tank	1994	385259
O	330m SE	Unspecified Tank	1975	401329
O	330m SE	Unspecified Tank	1985	401329
Y	339m E	Unspecified Tank	1909	381436
Y	339m E	Unspecified Tank	1939	381436
Y	342m E	Tanks	1933	378148
B	349m NW	Unspecified Tank	1952	369193
AA	351m W	Unspecified Tank	1909	383759
Y	352m E	Unspecified Tank	1952	369182
AA	353m W	Unspecified Tank	1865	383759
B	354m NW	Unspecified Tank	1952	383793
B	354m NW	Unspecified Tank	1964	383793
AD	363m W	Unspecified Tank	1865	369225
O	372m E	Unspecified Tank	1909	369179
V	376m SW	Unspecified Tank	1897	369233
B	386m NW	Unspecified Tank	1952	397186
B	390m NW	Unspecified Tank	1898	401939
B	390m NW	Unspecified Tank	1932	401939
B	392m NW	Unspecified Tank	1909	405569
B	392m NW	Unspecified Tank	1939	405569



ID	Location	Land Use	Date	Group ID
B	392m NW	Unspecified Tank	1898	405569
B	394m W	Unspecified Tank	1972	369198
B	396m NW	Gas Works	1898	409673
O	398m SE	Unspecified Tank	1985	381398
O	399m SE	Unspecified Tank	1975	386616
AD	412m W	Unspecified Tank	1980	405159
AD	413m W	Unspecified Tank	1994	392725
AD	414m W	Unspecified Tank	1972	405159
AD	414m W	Unspecified Tank	1938	385333
AD	414m W	Unspecified Tank	1932	385333
O	418m SE	Unspecified Tank	1933	393294
O	419m SE	Unspecified Tank	1897	409453
B	428m NW	Gas Works	1909	401381
O	428m SE	Tanks	1933	378154
B	428m NW	Gas Works	1898	401381
B	433m NW	Unspecified Tank	1952	384701
B	433m NW	Unspecified Tank	1964	384701
B	433m NW	Unspecified Tank	1952	395028
B	438m NW	Gasometers	1898	391499
B	438m NW	Gasometers	1909	391499
B	438m NW	Gasometers	1939	391499
B	438m NW	Tanks	1932	378198
B	440m NW	Gasometer	1898	374083
B	443m W	Gasometer	1897	400746
B	443m W	Unspecified Tank	1909	394403
B	443m W	Unspecified Tank	1938	394403
B	443m W	Unspecified Tank	1932	394403
B	445m NW	Gasometer	1898	374084



ID	Location	Land Use	Date	Group ID
B	448m W	Gasometer	1898	400746
AD	449m W	Tanks	1970	394401
AD	449m W	Tanks	1979	403371
AD	449m W	Tanks	1986	403371
AD	454m W	Unspecified Tank	1865	369224
B	462m W	Tanks	1897	381405
B	462m W	Tanks	1909	381405
B	462m W	Unspecified Tank	1972	369200
B	466m W	Tanks	1898	388736
B	468m NW	Unspecified Tank	1952	385464
B	468m NW	Unspecified Tank	1964	385464
B	468m NW	Unspecified Tank	1952	402135
AK	470m S	Unspecified Tank	1952	407279
AK	470m S	Unspecified Tank	1952	407279
B	476m NW	Unspecified Tank	1972	369199
B	480m NW	Unspecified Tanks	1907	379245
B	481m NW	Tanks	1897	410197
B	481m NW	Tanks	1909	381354
B	482m W	Tanks	1897	400621
B	482m W	Tanks	1909	400621
B	485m NW	Tanks	1898	398666
B	487m W	Tanks	1898	404619
B	488m NW	Unspecified Tanks	1907	379246
B	490m NW	Tanks	1897	410197
AV	495m E	Unspecified Tank	1933	369181
AS	498m NE	Unspecified Tank	1950	368818

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

87

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 45 >](#)

ID	Location	Land Use	Date	Group ID
A	On site	Electricity Substation	1993	261926
A	On site	Electricity Substation	1973	261926
4	35m S	Electricity Substation	1952	248018
C	54m E	Electricity Substation	1952	287687
C	54m E	Electricity Substation	1952	287687
R	82m W	Electricity Transformers	1980	283608
R	83m W	Electricity Transformers	1972	283608
R	87m W	Electricity Substation	1994	248020
U	96m S	Electricity Substation	1993	248010
U	98m S	Electricity Transformer	1972	250859
B	102m NW	Electricity Transformers	1972	251667
B	103m NW	Electricity Transformer	1972	250878
B	108m NW	Electricity Substation	1985	248027
B	115m W	Electricity Transformer	1980	255836
B	116m W	Electricity Transformer	1972	252333
B	119m W	Electricity Transformer	1980	267602
B	120m W	Electricity Substation	1952	273473
B	120m W	Electricity Substation	1964	273473
B	120m W	Electricity Transformer	1972	255204
B	120m W	Electricity Substation	1952	273473
B	121m W	Electricity Substation	1994	273473
B	137m W	Electricity Transformers	1980	264662
B	138m W	Electricity Transformers	1972	264662



ID	Location	Land Use	Date	Group ID
B	138m W	Electricity Substation	1994	248024
B	161m NW	Electricity Transformers	1972	251666
B	163m W	Electricity Transformers	1980	263528
B	164m W	Electricity Transformers	1972	263528
B	164m W	Electricity Substation	1994	248025
B	174m W	Electricity Transformers	1980	273832
B	175m W	Electricity Transformers	1972	273832
B	190m W	Electricity Transformers	1980	255837
B	191m W	Electricity Transformers	1972	253897
B	199m W	Electricity Transformers	1980	265199
B	201m W	Electricity Transformers	1972	265199
B	201m W	Electricity Substation	1994	248028
B	207m W	Electricity Transformers	1980	253630
B	208m W	Electricity Transformers	1972	255203
B	209m W	Electricity Substation	1994	248015
B	210m W	Electricity Transformers	1980	282969
B	211m W	Electricity Transformers	1972	282969
B	222m W	Electricity Transformers	1980	291870
Y	222m E	Power Station	1985	270815
B	223m W	Electricity Transformers	1972	254350
Y	223m E	Power Station	1993	270815
Y	223m E	Power Station	1975	260218
B	231m W	Electricity Substation	1994	248022
B	233m W	Electricity Transformers	1980	291870
B	234m W	Electricity Transformers	1972	253054
B	236m W	Electricity Transformers	1980	283875
B	237m W	Electricity Substation	1994	248030
B	237m W	Electricity Transformers	1972	283875



ID	Location	Land Use	Date	Group ID
B	247m W	Electricity Transformer	1980	268682
B	248m W	Electricity Transformer	1972	268682
B	259m W	Electricity Transformer	1980	272753
B	260m W	Electricity Transformer	1972	272753
B	261m W	Electricity Substation	1994	248021
Y	279m E	Electricity Substation	1952	288232
Y	279m E	Electricity Substation	1952	288232
O	299m SE	Electricity Substation	1993	266845
O	299m SE	Electricity Transformers	1975	251668
O	300m SE	Electricity Substation	1985	266845
B	329m W	Electricity Transformers	1980	251665
B	329m W	Electricity Transformer	1972	250880
B	330m W	Electricity Transformers	1972	251664
AC	367m S	Electricity Transformer	1972	250860
AH	383m SW	Electricity Transformer	1980	268840
AH	385m SW	Electricity Substation	1994	248016
AH	385m SW	Electricity Transformer	1972	268840
B	396m NW	Gas Works	1898	260678
AM	409m E	Electricity Transformer	1975	250884
B	410m NW	Disused Gas Works	1939	251267
AM	427m E	Electricity Substation	1985	267760
B	428m NW	Gas Works	1909	262911
B	428m NW	Gas Works	1898	262911
AM	429m E	Electricity Substation	1995	275831
AM	429m E	Electricity Substation	1993	275831
B	438m NW	Gasometers	1898	279285
B	438m NW	Gasometers	1909	279285
B	438m NW	Gasometers	1939	279285



ID	Location	Land Use	Date	Group ID
B	439m NW	Gasometer	1898	251565
B	443m W	Gasometer	1897	288350
B	445m NW	Gasometer	1898	251566
T	445m SW	Electricity Substation	1972	248009
B	448m W	Gasometer	1898	288350
8	459m S	Electricity Transformer	1972	250858
AK	467m S	Electricity Transformer	1972	250856
AK	474m S	Electricity Transformer	1972	250857

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

10

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 45 >](#)

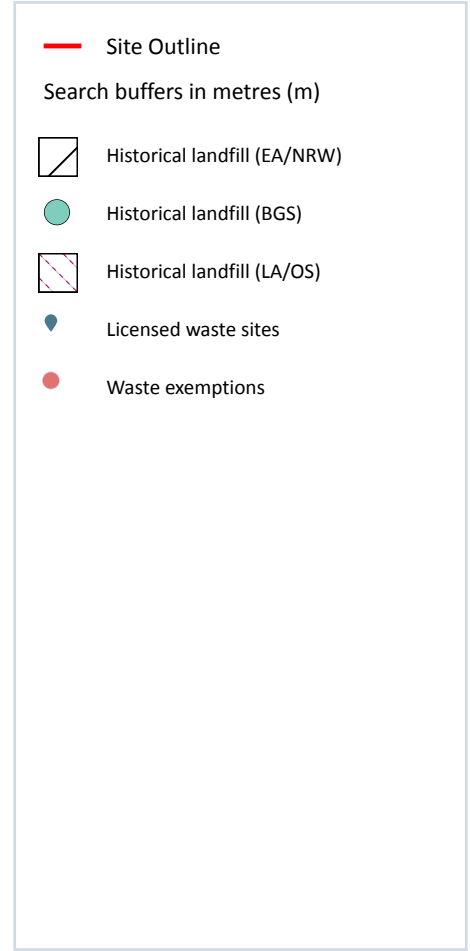
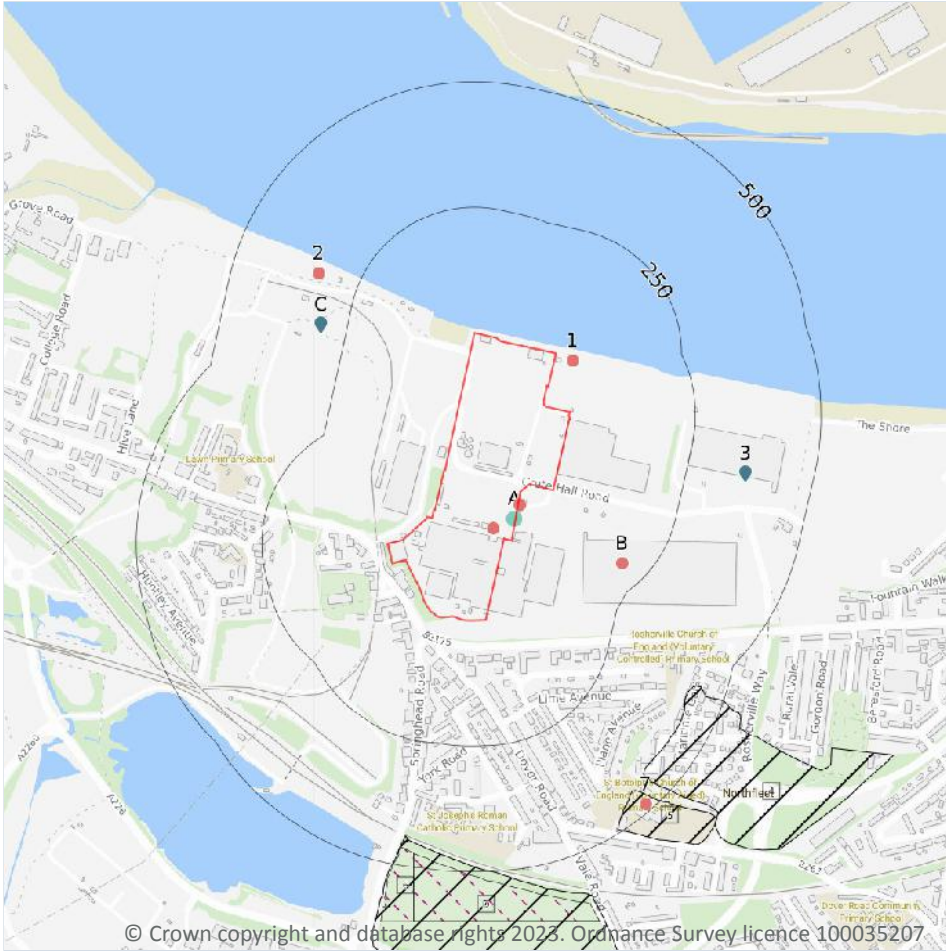
ID	Location	Land Use	Date	Group ID
L	37m E	Garage	1952	84956
L	37m E	Garage	1952	84956
N	61m SW	Garage	1952	80086
N	61m SW	Garage	1952	80086
N	61m SW	Garage	1964	80086

ID	Location	Land Use	Date	Group ID
AC	346m S	Garage	1952	85649
AC	346m S	Garage	1952	85649
AN	421m S	Garage	1952	76809
AN	422m S	Garage	1972	75549
AN	422m S	Garage	1952	78122

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 **1**

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.

Features are displayed on the Waste and landfill map on [page 87 >](#)

ID	Location	Address	BGS Number	Risk	Waste Type
A	On site	Northfleet Power stn, Crete Hall Rd, Northfleet,Kt	1947	Risk to major aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	2
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Landfill sites identified from Local Authority records and high detail historical mapping.

Features are displayed on the Waste and landfill map on [page 87 >](#)

ID	Location	Site address	Source	Data type
6	465m S	Refuse Tip	1971 mapping	Polygon
D	473m S	Refuse Tip	1971 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	3
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Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on [page 87 >](#)

ID	Location	Details		
4	426m SE	Site Address: Northfleet Power Station, Northfleet, Kent Licence Holder Address: -	Waste Licence: Yes Site Reference: 21EL, P/02/02 Waste Type: Inert, Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 14/05/1977 Licence Surrender: 31/12/1992	Operator: Central Electricity Generating Board Licence Holder: Central Electricity Generating Board First Recorded 31/12/1960 Last Recorded: 31/12/1992

ID	Location	Details		
D	440m S	Site Address: Springhead Road, Swale, Kent Licence Holder Address: -	Waste Licence: Yes Site Reference: REIN.2/1, 21BF Waste Type: Inert, Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 01/01/1976 Licence Surrender: -	Operator: Northfleet Urban District Council Licence Holder: Kent County Council First Recorded 31/12/1951 Last Recorded: 31/12/1984
5	448m SE	Site Address: Northfleet Power Station, Northfleet, Kent Licence Holder Address: -	Waste Licence: Yes Site Reference: 21EL, P/02/02 Waste Type: Inert, Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 14/05/1977 Licence Surrender: 31/12/1992	Operator: - Licence Holder: Central Electricity Generating Board First Recorded 31/12/1960 Last Recorded: 31/12/1992

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

3.5 Historical waste sites

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

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

3.6 Licensed waste sites

Records within 500m	5
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 87 >](#)

ID	Location	Details		
C	302m NW	Site Name: Northfleet Temporary Inert Waste Transfer Facility Site Address: Northfleet Works, Northfleet Embankment, Gravesend, Kent, DA11 9AN Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CRO117 EPR reference: EA/EPR/RP3194EY/S004 Operator: B A M Nuttal Ltd, Ferrovia Agroman (U K) Ltd, Kier Infrastructure & Overseas Waste Management licence No: 102226 Annual Tonnage: 0	Issue Date: 24/04/2012 Effective Date: - Modified: 07/05/2013 Surrendered Date: 09/10/2015 Expiry Date: - Cancelled Date: - Status: Surrendered
C	302m NW	Site Name: Northfleet Temporary Inert Waste Transfer Facility Site Address: Northfleet Works, Northfleet Embankment, Gravesham, Kent, DA1 9AN Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CRO117 EPR reference: EA/EPR/RP3194EY/V002 Operator: Bam Ferrovia Kier Joint Venture Waste Management licence No: 102226 Annual Tonnage: 700000	Issue Date: 24/04/2012 Effective Date: - Modified: 11/03/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
C	302m NW	Site Name: Northfleet Temporary Inert Waste Transfer Facility Site Address: Northfleet Works, Northfleet Embankment, Gravesham, Kent, DA11 9AN Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CRO117 EPR reference: EA/EPR/RP3194EY/V003 Operator: Bam Nuttal Ltd, Ferrovia Agroman (U K) Ltd, Kier Infrastructure & Overseas Ltd Waste Management licence No: 102226 Annual Tonnage: 1200000	Issue Date: 24/04/2012 Effective Date: - Modified: 07/05/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

ID	Location	Details		
C	302m NW	Site Name: Northfleet Temporary Inert Waste Transfer Facility Site Address: Northfleet Works, Northfleet Embankment, Gravesend, Kent, DA11 9AN Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CRO117 EPR reference: EA/EPR/RP3194EY/S004 Operator: B A M Nuttal Ltd, Ferrovial Agroman (U K) Ltd, Kier Infrastructure & Overseas Waste Management licence No: 102226 Annual Tonnage: 0	Issue Date: 24/04/2012 Effective Date: - Modified: 07/05/2013 Surrendered Date: Oct 9 2015 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
3	365m E	Site Name: Red Lion Wharf Site Address: Red Lion Wharf, Crete Hall Road, Northfleet, Gravesend, Kent, DA11 9AA Correspondence Address: -	Type of Site: Treatment of waste wood 75000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HWR004 EPR reference: EA/EPR/GB3538AC/S002 Operator: Hadfield Wood Recyclers Limited Waste Management licence No: 104141 Annual Tonnage: 0	Issue Date: 23/05/2012 Effective Date: - Modified: - Surrendered Date: 28/04/2014 Expiry Date: - Cancelled Date: - Status: Surrendered

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

3.7 Waste exemptions

Records within 500m	17
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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 87 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	-	WEX261186	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	2m SE	Kimberly Clark Cretehall Road Kent DA11 9AD	EPR/SF0808M D/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers



ID	Location	Site	Reference	Category	Sub-Category	Description
A	3m SE	Northfleet Mill Crete Hall Road GRAVESEND Kent DA11 9AD	EPR/JH0214AK /A001	Using waste exemption	Non-Agricultural Waste Only	Use of sludge for the purposes of re-seeding a waste water treatment plant
A	3m SE	kimberly clark, cretehall road, northfleet, kent, DA11 9AD	WEX120709	Storing waste exemption	Not on a farm	Storage of waste in secure containers
1	35m NE	-	WEX163596	Using waste exemption	Not on a Farm	Use of waste in construction
B	200m SE	CRETE HALL ROAD, NORTHFLEET, GRAVESEND, DA11 9BU	WEX239725	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	200m SE	CRETE HALL ROAD, NORTHFLEET, GRAVESEND, DA11 9BU	WEX239725	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	200m SE	CRETE HALL ROAD, NORTHFLEET, GRAVESEND, DA11 9BU	WEX239725	Treating waste exemption	Not on a farm	Treatment of waste food
B	200m SE	CRETE HALL ROAD, NORTHFLEET, GRAVESEND, DA11 9BU	WEX239725	Treating waste exemption	Not on a farm	Crushing waste fluorescent tubes
B	200m SE	CRETE HALL ROAD, NORTHFLEET, GRAVESEND, DA11 9BU	WEX282639	Treating waste exemption	Not on a farm	Sorting mixed waste
B	200m SE	CRETE HALL ROAD, NORTHFLEET, GRAVESEND, DA11 9BU	WEX144201	Treating waste exemption	Not on a farm	Sorting mixed waste
B	200m SE	19, WORPLE ROAD, LONDON, SW19 4JS	WEX096851	Treating waste exemption	Not on a farm	Treatment of waste food
B	200m SE	19, WORPLE ROAD, LONDON, SW19 4JS	WEX096851	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	200m SE	19, WORPLE ROAD, LONDON, SW19 4JS	WEX096851	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	200m SE	19, WORPLE ROAD, LONDON, SW19 4JS	WEX096851	Treating waste exemption	Not on a farm	Crushing waste fluorescent tubes
2	333m NW	Tarmac Cement and Lime Ltd, The Shore, Northfleet, Gravesend, DA11 9AN	WEX259657	Using waste exemption	Not on a farm	Use of waste in construction

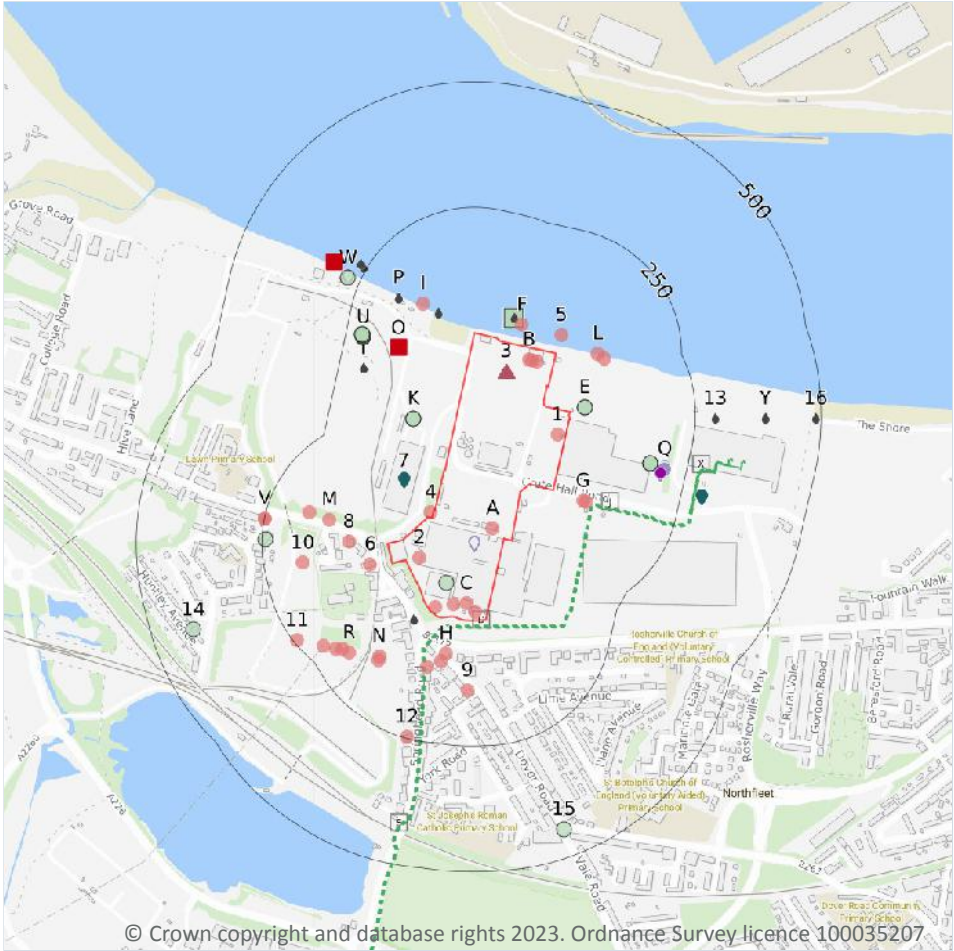


ID	Location	Site	Reference	Category	Sub-Category	Description
7	485m SE	St Botolphs Primary School Dover Road GRAVESEND Kent DA11 9PL	EPR/DE5089FR /A001	Using waste exemption	Non- Agricultural Waste Only	Use of waste in construction

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- - - Electricity cables
- ▲ Hazardous substance storage/usage
- Historical licensed industrial activities
- ⬮ Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- List 1 Dangerous Substances
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)
- Pollution inventory substances
- Pollution inventory waste transfers

4.1 Recent industrial land uses

Records within 250m **37**

Current potentially contaminative industrial sites.
 Features are displayed on the Current industrial land use map on [page 94](#) >

ID	Location	Company	Address	Activity	Category
1	On site	Electricity Sub Station	Kent, DA11	Electrical Features	Infrastructure and Facilities
2	On site	Tank	Kent, DA11	Tanks (Generic)	Industrial Features
A	On site	Artisan Engineering Ltd	Northfleet Mill, Crete Hall Road, Northfleet, Gravesend, Kent, DA11 9AD	Industrial Engineers	Engineering Services

ID	Location	Company	Address	Activity	Category
B	On site	Tank	Kent, DA11	Tanks (Generic)	Industrial Features
B	On site	Chimney	Kent, DA11	Chimneys	Industrial Features
B	On site	Tank	Kent, DA11	Tanks (Generic)	Industrial Features
C	On site	Tank	Kent, DA11	Tanks (Generic)	Industrial Features
C	On site	Tank	Kent, DA11	Tanks (Generic)	Industrial Features
C	On site	Tank	Kent, DA11	Tanks (Generic)	Industrial Features
C	On site	Tank	Kent, DA11	Tanks (Generic)	Industrial Features
4	5m SW	Tank	Kent, DA11	Tanks (Generic)	Industrial Features
5	38m NE	Pylon	Kent, DA11	Electrical Features	Infrastructure and Facilities
F	42m N	Travelling Cranes	Kent, DA11	Travelling Cranes and Gantries	Industrial Features
6	43m SW	Whitecode Design Associates	26-27, The Hill, Northfleet, Gravesend, Kent, DA11 9EU	Electrical and Electronic Engineers	Engineering Services
G	63m E	Electricity Sub Station	Kent, DA11	Electrical Features	Infrastructure and Facilities
G	69m E	Electricity Sub Station	Kent, DA11	Electrical Features	Infrastructure and Facilities
H	73m S	Electricity Sub Station	Kent, DA11	Electrical Features	Infrastructure and Facilities
8	77m SW	Dpf Specialist Northfleet	5, High Street, Northfleet, Gravesend, Kent, DA11 9EZ	Vehicle Repair, Testing and Servicing	Repair and Servicing
L	83m NE	Bowater's Wharf	Kent, DA11	Moorings and Unloading Facilities	Water
H	88m S	Highline Fabrications	3, Dover Road, Northfleet, Gravesend, Kent, DA11 9PH	Cutting, Drilling and Welding Services	Construction Services
L	96m NE	Travelling Crane	Kent, DA11	Travelling Cranes and Gantries	Industrial Features
H	102m S	Hire Station	5, Springhead Road, Northfleet, Gravesend, Kent, DA11 9QT	Construction and Tool Hire	Hire Services
I	118m N	Travelling Crane	Kent, DA11	Travelling Cranes and Gantries	Industrial Features



ID	Location	Company	Address	Activity	Category
M	125m W	Electricity Sub Station	Kent, DA11	Electrical Features	Infrastructure and Facilities
N	136m SW	Mast (Telecommunication)	Kent, DA11	Telecommunications Features	Infrastructure and Facilities
9	139m S	Discount Cars Ltd	29-31, Dover Road, Northfleet, Gravesend, Kent, DA11 9PH	Secondhand Vehicles	Motoring
N	141m SW	Pylon	Kent, DA11	Electrical Features	Infrastructure and Facilities
M	169m W	Tank	Kent, DA11	Tanks (Generic)	Industrial Features
10	173m SW	Chalk Pit (Disused)	Kent, DA11	Stone Quarrying and Preparation	Extractive Industries
R	181m SW	Pylon	Kent, DA11	Electrical Features	Infrastructure and Facilities
R	188m SW	Masts	Kent, DA11	Telecommunications Features	Infrastructure and Facilities
R	200m SW	Pylon	Kent, DA11	Electrical Features	Infrastructure and Facilities
R	214m SW	Pylon	Kent, DA11	Electrical Features	Infrastructure and Facilities
11	244m SW	Chalk Pit (Disused)	Kent, DA11	Stone Quarrying and Preparation	Extractive Industries
12	246m S	Drysite Ltd	40, Springhead Road, Northfleet, Gravesend, Kent, DA11 9QY	Construction Completion Services	Construction Services
V	249m W	Can-do Tool Hire	11-15, High Street, Northfleet, Gravesend, Kent, DA11 9EZ	Construction and Tool Hire	Hire Services
V	249m W	Can-Do	11-15, High Street, Northfleet, Gravesend, Kent, DA11 9EZ	Construction and Tool Hire	Hire Services

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

34

High voltage underground electricity transmission cables.

Features are displayed on the Current industrial land use map on [page 94](#) >

ID	Location	Cable Set	Cable Route	Details	
D	10m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
D	11m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
D	11m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
D	12m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
D	12m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
D	13m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
D	13m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
D	14m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
D	14m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
J	81m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
J	82m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified



ID	Location	Cable Set	Cable Route	Details	
J	82m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
J	83m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
J	83m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
J	84m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
J	84m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
J	85m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
J	85m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
S	186m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
S	186m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
S	186m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
S	186m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
S	186m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
S	186m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified



ID	Location	Cable Set	Cable Route	Details	
S	186m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
S	186m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
S	186m S	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
X	273m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
X	273m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
X	274m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
X	274m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
X	275m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
X	275m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
X	277m E	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.



4.5 Sites determined as Contaminated Land

Records within 500m

0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

1

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

Features are displayed on the Current industrial land use map on [page 94 >](#)

ID	Location	Details	
3	On site	Application reference number: No Details Application status: Historical Consent Application date: No Details Address: Ridgeway International, Cliffe Alpha Jetty, Gravesend, Kent, England	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

2

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.

Features are displayed on the Current industrial land use map on [page 94 >](#)

ID	Location	Details	
Q	207m E	Operator: Kimberly Clark Ltd Address: Northfleet Mill, Crete Hall Road, Northfleet, Gravesend, Kent, DA11 9AD Process: Paper And Pulp Manufacturing Processes Permit Number: AU7117	Original Permit Number: IPCAPP Date Approved: 20-6-1996 Effective Date: 1-7-1996 Status: Superseded By Variation
Q	207m E	Operator: Kimberly Clark Ltd Address: Northfleet Mill, Crete Hall Road, Northfleet, Gravesend, Kent, DA11 9AD Process: Paper And Pulp Manufacturing Processes Permit Number: BD4376	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked - Now Ippc

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

13

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 94 >](#)

ID	Location	Details	
A	On site	Operator: Kimberly-Clark Limited Installation Name: Northfleet Mill EPR/BJ7379IZ Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: QP3035AH Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 16/06/2016 Effective Date: 16/06/2016 Last date noted as effective: 21/03/2023 Status: Superseded
A	On site	Operator: Kimberly-Clark Limited Installation Name: Northfleet Mill EPR/BJ7379IZ Process: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: QP3035AH Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 16/06/2016 Effective Date: 16/06/2016 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
A	On site	Operator: Kimberly-Clark Limited Installation Name: Northfleet Mill EPR/BJ7379IZ Process: COMBUSTION; ANY FUEL =>50MW Permit Number: QP3035AH Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 16/06/2016 Effective Date: 16/06/2016 Last date noted as effective: 21/03/2023 Status: Superseded
Q	199m E	Operator: Kimberly-Clark Limited Installation Name: NORTHFLEET TISSUE MILL Process: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: BJ7379IZ Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 25/04/2002 Effective Date: 25/04/2002 Last date noted as effective: 21/03/2023 Status: Superseded
Q	199m E	Operator: Kimberly-Clark Limited Installation Name: NORTHFLEET TISSUE MILL Process: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: QP3431UX Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 08/01/2010 Effective Date: 08/01/2010 Last date noted as effective: 21/03/2023 Status: Superseded
Q	199m E	Operator: Kimberly-Clark Limited Installation Name: Northfleet Paper Mill - EPR/BJ7379IZ Process: COMBUSTION; ANY FUEL =>50MW Permit Number: LP3608PF Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 10/11/2020 Effective Date: 10/11/2020 Last date noted as effective: 21/03/2023 Status: Effective
Q	199m E	Operator: Kimberly-Clark Limited Installation Name: NORTHFLEET TISSUE MILL Process: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: ZP3437FC Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 08/05/2012 Effective Date: 08/05/2012 Last date noted as effective: 21/03/2023 Status: Superseded
Q	199m E	Operator: Kimberly-Clark Limited Installation Name: Northfleet Mill Process: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: BP3734ZK Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 12/09/2013 Effective Date: 12/09/2013 Last date noted as effective: 21/03/2023 Status: Superseded
Q	199m E	Operator: Kimberly-Clark Limited Installation Name: NORTHFLEET TISSUE MILL Process: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: AP3430FY Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 15/02/2012 Effective Date: 15/02/2012 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
Q	199m E	Operator: Kimberly-Clark Limited Installation Name: Northfleet Paper Mill - EPR/BJ7379IZ Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: LP3608PF Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 10/11/2020 Effective Date: 10/11/2020 Last date noted as effective: 21/03/2023 Status: Effective
Q	199m E	Operator: Kimberly-Clark Limited Installation Name: Northfleet Paper Mill - EPR/BJ7379IZ Process: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: LP3608PF Original Permit Number: BJ7379IZ	EPR Reference: - Issue Date: 10/11/2020 Effective Date: 10/11/2020 Last date noted as effective: 21/03/2023 Status: Effective
Q	207m E	Operator: KIMBERLY CLARK LTD Installation Name: - Process: PAPER, PULP & BOARD; PRODUCING PAPER/BOARD >20T/D Permit Number: BJ7379 Original Permit Number: BJ7379	EPR Reference: - Issue Date: 25/04/2002 Effective Date: 25/04/2002 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
W	274m NW	Operator: Lafarge Cement Uk Plc Installation Name: Northfleet Cement Works Process: CEMENT AND LIME; PRODUCING ETC CEMENT CLINKER Permit Number: BM0176IS Original Permit Number: BM0176IS	EPR Reference: - Issue Date: 26/03/2004 Effective Date: 26/03/2004 Last date noted as effective: 21/03/2023 Status: Superseded

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

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

Records within 500m

2

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

Features are displayed on the Current industrial land use map on [page 94 >](#)

ID	Location	Address	Details	
7	74m W	Tarmac Cement & Lime Ltd, The Shore, Northfleet, DA11 9AN	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	
X	291m E	Stema, Crete Hall Road, Northfleet, Kent, DA11 9AD	Process: Quarry Processes Status: Surrendered Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0
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Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

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

4.13 Licensed Discharges to controlled waters

Records within 500m	15
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Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on [page 94 >](#)

ID	Location	Address	Details	
C	37m SW	TISSUE MILL, NORTHFLEET, KENT, TISSUE MILL, NORTHFLEET, KENT	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTMR.0185 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 26/06/1975 Effective Date: 14/06/1979 Revocation Date: 20/01/1992
C	37m SW	TISSUE MILL, NORTHFLEET, KENT, TISSUE MILL, NORTHFLEET, KENT	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTMR.0185 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 26/06/1975 Effective Date: 14/06/1979 Revocation Date: 20/01/1992
F	51m N	NORTHFLEET MILL, CRETE HALL ROAD, N, NORTHFLEET MILL, CRETE HALL ROAD, NORTHFLEET, KENT	Effluent Type: UNSPECIFIED Permit Number: CNTM.0004 Permit Version: 1 Receiving Water: RIVER THAMES	Status: REVOKED - UNSPECIFIED Issue date: 20/01/1992 Effective Date: 20/01/1992 Revocation Date: 08/07/1996
I	81m N	BLUE CIRCLE CEMENT WORKS, THE SHORE, BLUE CIRCLE CEMENT WORKS, THE SH, ORE, NORTHFLEET, GRAVESEND, KENT	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTCR.2043 Permit Version: 1 Receiving Water: TIDAL THAMES	Status: REVOKED - UNSPECIFIED Issue date: 24/10/1983 Effective Date: 24/10/1983 Revocation Date: 23/08/1993



ID	Location	Address	Details	
P	166m NW	OUTLET A, BLUE CIRCLE, NORTHFLEET, OUTLET A, BLUE CIRCLE, NORTHFLEE, T, THE SHORE, NORTHFLEET, GRAVSE, ND, KENT	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: CNTM.1265 Permit Version: 2 Receiving Water: RIVER THAMES TIDAL	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 09/12/2009 Effective Date: 09/12/2009 Revocation Date: -
P	166m NW	OUTLET A, BLUE CIRCLE, NORTHFLEET, OUTLET A, BLUE CIRCLE, NORTHFLEE, T, THE SHORE, NORTHFLEET, GRAVSE, ND, KENT	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: CNTM.1265 Permit Version: 1 Receiving Water: RIVER THAMES TIDAL	Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 24/01/1994 Effective Date: 24/01/1994 Revocation Date: 09/12/2009
P	166m NW	NORTHFLEET WORKS, NORTHFLEET, KENT, NORTHFLEET WORKS, NORTHFLEET, KE, NT	Effluent Type: MISCELLANEOUS DISCHARGES - UNSPECIFIED Permit Number: CTR.1895 Permit Version: 1 Receiving Water: THAMES (TIDAL)	Status: REVOKED - UNSPECIFIED Issue date: 21/09/1982 Effective Date: 21/09/1982 Revocation Date: 23/08/1993
T	201m NW	NORTHFLEET WORKS, NORTHFLEET, KENT, NORTHFLEET WORKS, NORTHFLEET, KE, NT	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTMR.0019 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 05/01/1978 Effective Date: 05/01/1978 Revocation Date: 23/08/1993
T	201m NW	NORTHFLEET WORKS, NORTHFLEET, KENT, NORTHFLEET WORKS, NORTHFLEET, KE, NT	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTMR.0358 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 05/01/1978 Effective Date: 05/01/1978 Revocation Date: 23/08/1993
W	256m NW	BLUE CIRCLE WASHING PLANT, A2 WATLING STREET, BEAN, DARTFORD, KENT, DA2 8AH	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: CASM.0640 Permit Version: 1 Receiving Water: THE TIDAL RIVER THAMES	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 08/08/2002 Effective Date: 24/07/2002 Revocation Date: -
W	264m NW	NORTHFLEET EASTERN QUARRY WWTW, WATLING STREET, BEAN, DARTFORD, DA2 8AH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: EPRBB3093EY Permit Version: 1 Receiving Water: THAMES ESTUARY	Status: SURRENDERED UNDER EPR 2010 Issue date: 30/03/2015 Effective Date: 04/04/2016 Revocation Date: 20/04/2016
13	289m E	MAIN C W DISCHARGE, NORTHFLEET POWE, MAIN C W DISCHARGE, NORTHFLEET P, OWER STATION, KENT	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: CTMR.0112 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 02/05/1978 Effective Date: 02/05/1978 Revocation Date: 15/01/1992



ID	Location	Address	Details	
Y	389m E	NORTHFLEET POWER STATION, NORTHFLEE, NORTHFLEET POWER STATION, NORTHF, LEET, KENT	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTMR.0113 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 02/05/1978 Effective Date: 02/05/1978 Revocation Date: 15/01/1992
Y	389m E	NORTHFLEET POWER STATION, NORTHFLEE, NORTHFLEET POWER STATION, NORTHF, LEET, KENT	Effluent Type: MISCELLANEOUS DISCHARGES - UNSPECIFIED Permit Number: CTMR.0114 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 02/05/1978 Effective Date: 02/05/1978 Revocation Date: 15/01/1992
16	489m E	UPPER DISCHARGE, AEI CABLES LTD, GR, UPPER DISCHARGE, AEI CABLES LTD, GRAVESEND, KENT	Effluent Type: MISCELLANEOUS DISCHARGES - UNSPECIFIED Permit Number: CTMR.0118 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 29/10/1979 Effective Date: 29/10/1979 Revocation Date: 09/03/1992

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0
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Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

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

4.15 Pollutant release to public sewer

Records within 500m	0
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Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	5
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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 94 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
F	51m N	Kimberley Clark, Northfleet	Active	Thames Estuary	Mercury (other), Cadmium, Pentachlorophenol
O	142m NW	Blue Circle Cement Works	Active	-	-
O	142m NW	Blue Circle Cement Works	Active	-	-
O	142m NW	Blue Circle Cement Works (blue Circle Point A: Northfleet)	Not Active	Thames Estuary	Mercury (other), Cadmium
W	314m NW	Blue Circle Cement Works	Active	Thames Estuary	Cadmium

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

4.17 List 2 Dangerous Substances

Records within 500m

1

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

Features are displayed on the Current industrial land use map on [page 94 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
F	51m N	Kimberly Clark Ltd., Northfleet	Not Active	Thames Estuary	Atrazine & Simazine, Organotin

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

16

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 94 >](#)

ID	Location	Details
C	On site	<p>Incident Date: 25/04/2003</p> <p>Incident Identification: 154082</p> <p>Pollutant: Contaminated Water</p> <p>Pollutant Description: Firefighting Run-Off</p> <p>Water Impact: Category 3 (Minor)</p> <p>Land Impact: Category 3 (Minor)</p> <p>Air Impact: Category 3 (Minor)</p>



ID	Location	Details	
E	31m NE	Incident Date: 07/06/2006 Incident Identification: 405203 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other Animal Matter	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
E	31m NE	Incident Date: 07/06/2006 Incident Identification: 405203 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 2 (Significant)
K	82m NW	Incident Date: 26/03/2002 Incident Identification: 66640 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
K	82m NW	Incident Date: 26/11/2002 Incident Identification: 123239 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
Q	175m E	Incident Date: 24/06/2001 Incident Identification: 11177 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
Q	175m E	Incident Date: 24/06/2001 Incident Identification: 11177 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
U	214m NW	Incident Date: 18/03/2003 Incident Identification: 143836 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
U	215m NW	Incident Date: 21/02/2003 Incident Identification: 138463 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
U	216m NW	Incident Date: 08/04/2003 Incident Identification: 149537 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
U	217m NW	Incident Date: 13/03/2003 Incident Identification: 142774 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
U	217m NW	Incident Date: 17/02/2003 Incident Identification: 137435 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Soot/Smuts	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
V	243m W	Incident Date: 30/04/2004 Incident Identification: 233737 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
W	274m NW	Incident Date: 05/03/2002 Incident Identification: 61964 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
14	417m SW	Incident Date: 04/05/2004 Incident Identification: 234253 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
15	444m S	Incident Date: 09/03/2003 Incident Identification: 141950 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m

2

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 94 >](#)

ID: Q, Location: 200m E, Permit: BJ7379IZ
 Operator: Kimberly-Clark Limited
 Activity: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D
 Address: Northfleet Paper Mill Crete Hall Road Kent DA11 9AD
 Sector: Paper and textiles, Sub-sector: Paper & Pulp
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Particulate matter - total	10000kg	Below Reporting Threshold



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Copper	20kg	Below Reporting Threshold
Controlled Waters	Lead	20kg	Below Reporting Threshold
Controlled Waters	Mercury	0.1kg	Below Reporting Threshold
Controlled Waters	Nickel	20kg	Below Reporting Threshold
Controlled Waters	Zinc	100kg	Below Reporting Threshold
Controlled Waters	Nonylphenols and nonylphenol ethoxylates	1kg	Below Reporting Threshold
Controlled Waters	Octylphenols and octylphenol ethoxylates	1kg	Below Reporting Threshold
Controlled Waters	Tributyltin and compounds - as TBT	0.005kg	Below Reporting Threshold
Controlled Waters	Cadmium	1kg	Below Reporting Threshold
Controlled Waters	Cypermethrin	0.005kg	Below Reporting Threshold
Air	Carbon monoxide	100000kg	Below Reporting Threshold
Air	Nitrogen oxides (NO and NO2) as NO2	100000kg	Below Reporting Threshold
Controlled Waters	Chlorpyrifos	0.1kg	Below Reporting Threshold
Air	Pentachlorophenol (PCP)	1kg	Below Reporting Threshold
Controlled Waters	Endosulfan	0.0005kg	Below Reporting Threshold
Controlled Waters	Halogenated organic compounds - as AOX	1000kg	Below Reporting Threshold
Controlled Waters	Nitrogen - as total N	50000kg	Below Reporting Threshold
Controlled Waters	Phosphorus - as total P	5000kg	Below Reporting Threshold

ID: Q, Location: 200m E, Permit: BJ7379IZ
 Operator: Kimberly-Clark Limited
 Activity: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D
 Address: Northfleet Paper Mill Crete Hall Road Kent DA11 9AD
 Sector: Paper and textiles, Sub-sector: Paper & Pulp
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon dioxide	10000000kg	22901400kg

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



4.20 Pollution inventory waste transfers

Records within 500m
1

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 94 >](#)

ID: Q, Location: 200m E, Permit: BJ7379IZ
 Operator: Kimberly-Clark Limited
 Activity: PAPER, PULP AND BOARD; PRODUCING PAPER/BOARD >20T/D
 Address: Northfleet Paper Mill Crete Hall Road Kent DA11 9AD
 Sector: Paper and textiles, Sub-sector: Paper & Pulp
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	17.66	absolute value	15 01 02	plastic packaging	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	-	brt	15 01 04	metallic packaging	No
R4	Recycling/reclamation of metals and metal compounds	575.3	absolute value	20 01 40	metals	No
R4	Recycling/reclamation of metals and metal compounds	41.82	absolute value	17 04 01	copper, bronze, brass	No
R4	Recycling/reclamation of metals and metal compounds	23	absolute value	17 04 11	cables other than those mentioned in 17 04 10	No
R4	Recycling/reclamation of metals and metal compounds	52.8	absolute value	19 12 03	non-ferrous metal	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	-	brt	15 01 06	mixed packaging	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R1	Use principally as a fuel or other means to generate energy	11.66	absolute value	17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03	No
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)	-	brt	11 01 14	degreasing wastes other than those mentioned in 11 01 13	No
R1	Use principally as a fuel or other means to generate energy	267.834	absolute value	20 03 01	mixed municipal waste	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	148.02	absolute value	15 01 01	paper and cardboard packaging	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	65.08	absolute value	15 01 03	wooden packaging	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	1286.12	absolute value	03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation	No
R1	Use principally as a fuel or other means to generate energy	90.5	absolute value	03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	110.9	absolute value	17 01 01	concrete	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	13.42	absolute value	17 09 04	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	17	absolute value	08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09	No



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)	34.395	absolute value	16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08	No
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)	-	brt	20 01 34	batteries and accumulators other than those mentioned in 20 01 33	No
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)	-	brt	20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	No
R4	Recycling/reclamation of metals and metal compounds	3.72	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)	Yes
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	08 04 09	waste adhesives and sealants containing organic solvents or other dangerous substances	Yes
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)	0.34	absolute value	08 03 17	waste printing toner containing dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	1.23	absolute value	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	2.826	absolute value	15 01 10	packaging containing residues of or contaminated by dangerous substances	Yes



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)	8.17	absolute value	15 01 10	packaging containing residues of or contaminated by dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.56	absolute value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes
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	16 04 03	other waste explosives	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.47	absolute value	16 05 04	gases in pressure containers (including halons) containing dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	6.705	absolute value	16 05 06	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	Yes
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)	0.1	absolute value	16 06 01	lead batteries	Yes
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	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	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.3	absolute value	08 01 11	waste paint and varnish containing organic solvents or other dangerous substances	Yes

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



4.21 Pollution inventory radioactive waste

Records within 500m

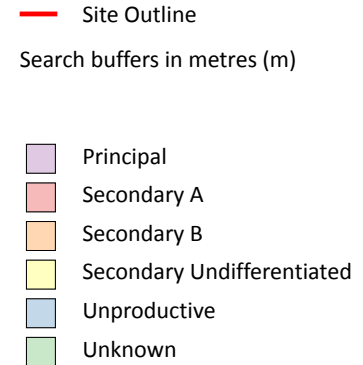
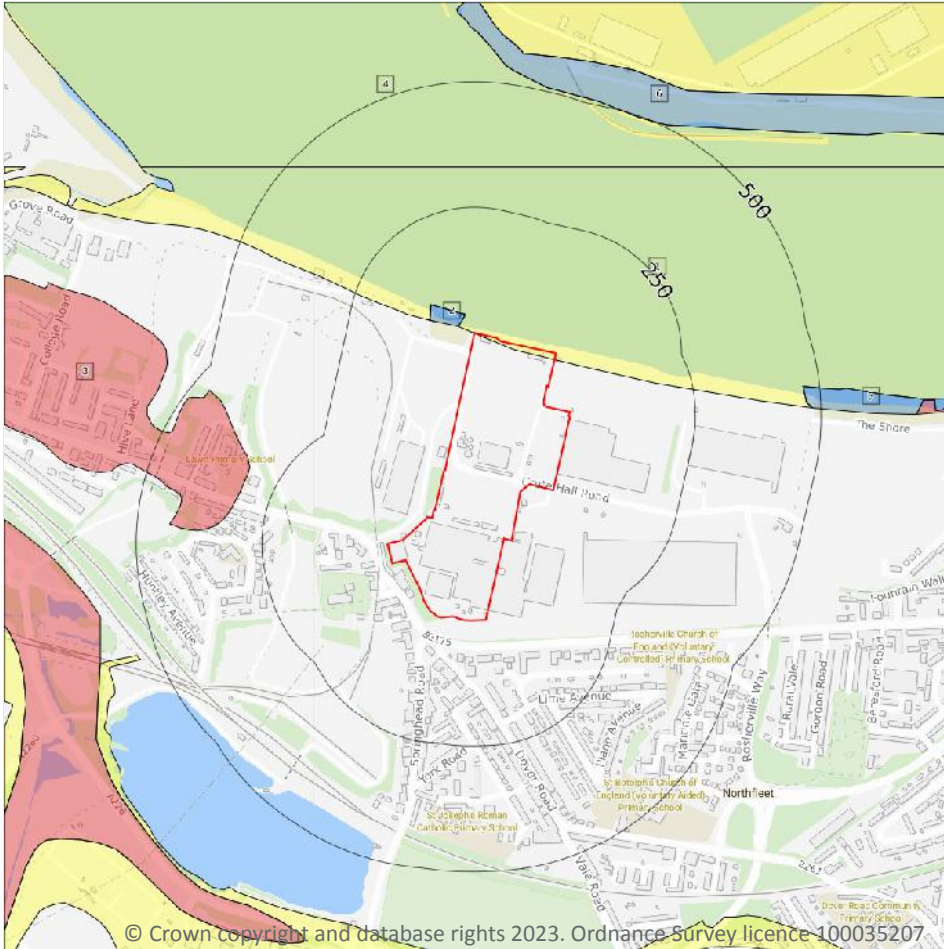
0

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



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5.1 Superficial aquifer

Records within 500m

6

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 116](#) >

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	34m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

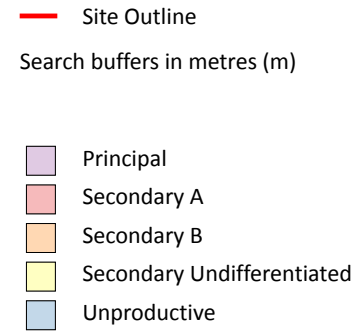
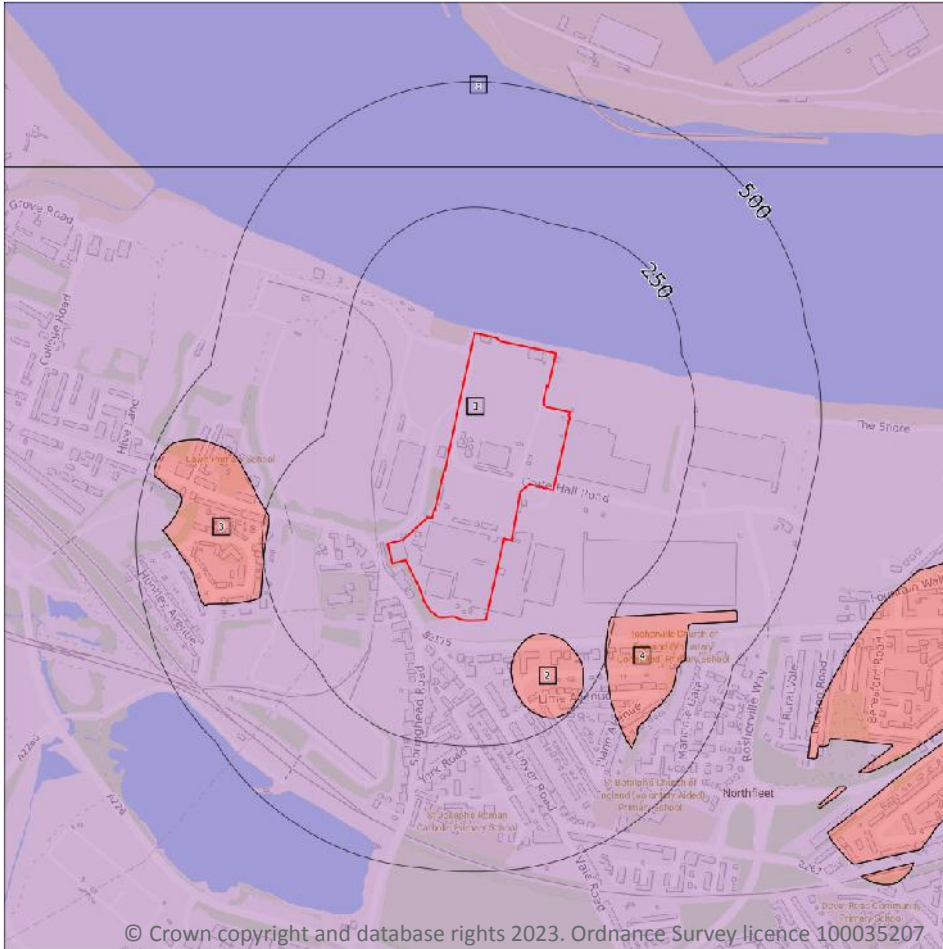


ID	Location	Designation	Description
3	310m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	330m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	467m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
6	498m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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



Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

5

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 118](#) >

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	85m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

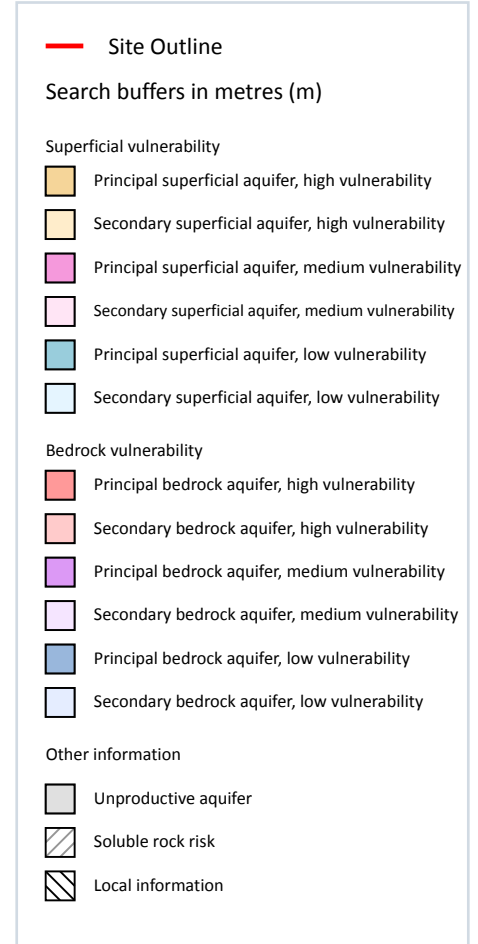
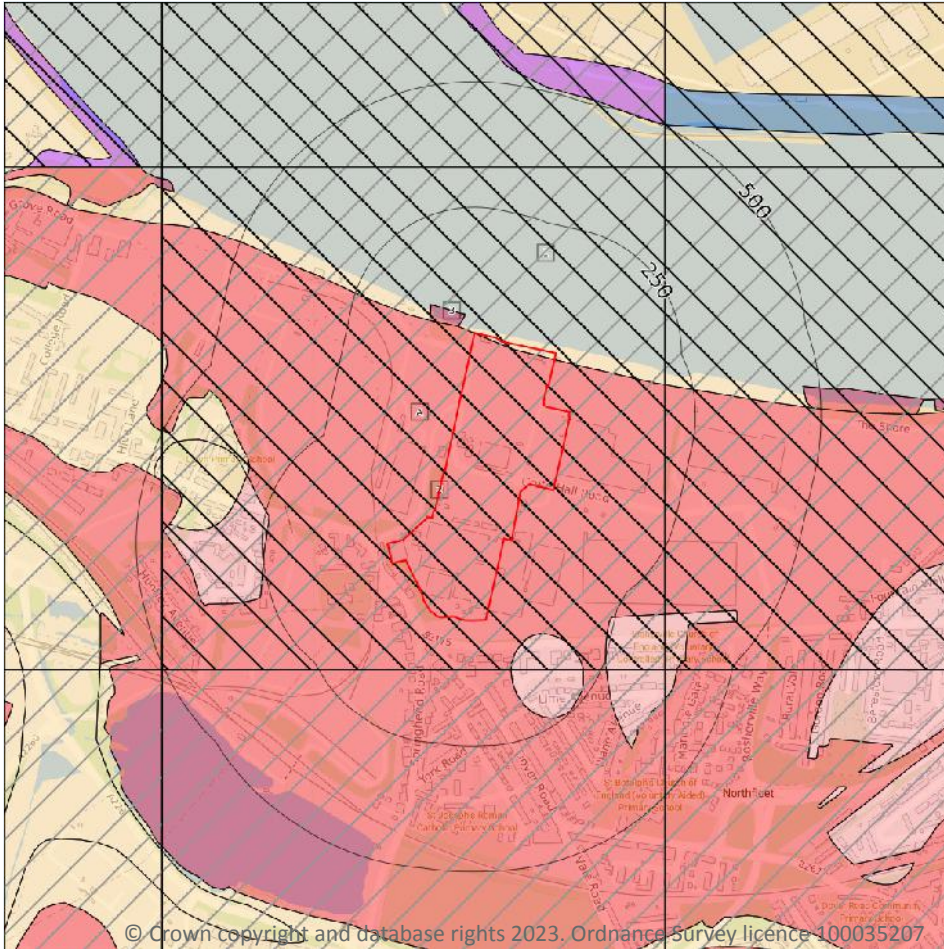


ID	Location	Designation	Description
3	240m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	241m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
5	330m N	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

3

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 120](#) >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
2	On site	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
3	34m N	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	1
------------------------	----------

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
A	Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.	3.0%

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



5.5 Groundwater vulnerability- local information

Records on site

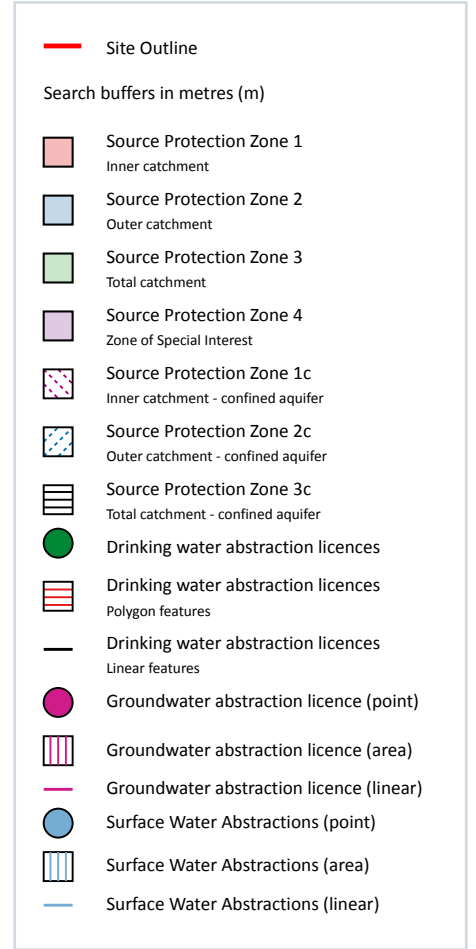
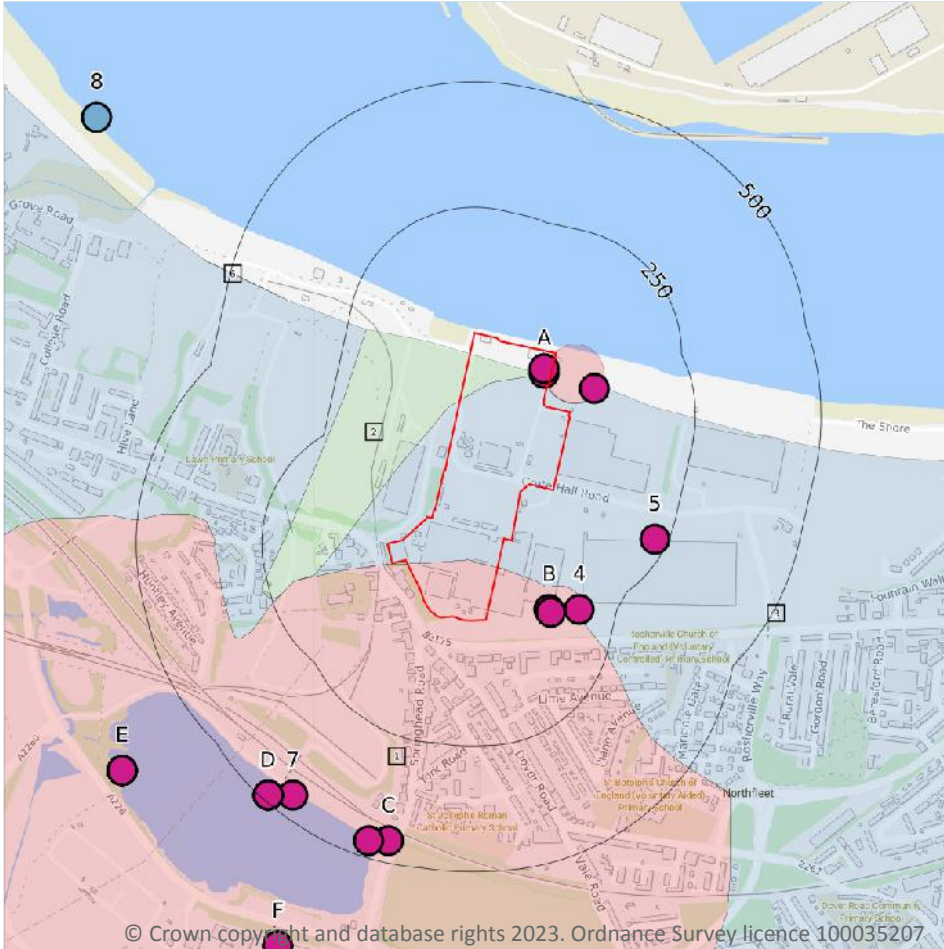
1

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 ↗.

ID	Summary	Additional information
A	Potentially increased vulnerability of the bedrock aquifer due to limited cover by superficial deposits	Removal of, or limited cover of, superficial deposits within the River Thames

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

Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

40

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 123](#) >

ID	Location	Details	
A	On site	Status: Historical Licence No: 9/40/01/0092/A/GR Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE AT KIMBERLY CLARK, NORTHFLEET Data Type: Point Name: Kimberly-Clark Limited Easting: 562760 Northing: 174590	Annual Volume (m³): 400000 Max Daily Volume (m³): 1309 Original Application No: - Original Start Date: 27/05/1966 Expiry Date: 31/03/2018 Issue No: 101 Version Start Date: 24/04/2002 Version End Date: -
A	On site	Status: Active Licence No: 9/40/01/0092/A/GR/R1 Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE AT KIMBERLY CLARK, NORTHFLEET Data Type: Point Name: Kimberly-Clark Limited Easting: 562759 Northing: 174599	Annual Volume (m³): 320000 Max Daily Volume (m³): 1309 Original Application No: NPS/WR/024286 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
A	68m NE	Status: Historical Licence No: 9/40/01/0092/A/GR Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT 1, GREENSAND BOREHOLE, NORTHFLEET. Data Type: Point Name: Kimberly-Clark Limited Easting: 562860 Northing: 174560	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 27/05/1966 Version End Date: -
B	118m SE	Status: Historical Licence No: 9/40/01/0092/A/GR Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE AT KIMBERLY CLARK, NORTHFLEET Data Type: Point Name: Kimberly-Clark Limited Easting: 562770 Northing: 174120	Annual Volume (m³): 400000 Max Daily Volume (m³): 1309 Original Application No: - Original Start Date: 27/05/1966 Expiry Date: 31/03/2018 Issue No: 101 Version Start Date: 24/04/2002 Version End Date: -



ID	Location	Details	
B	121m SE	Status: Active Licence No: 9/40/01/0092/A/GR/R1 Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE AT KIMBERLY CLARK, NORTHFLEET Data Type: Point Name: Kimberly-Clark Limited Easting: 562772 Northing: 174114	Annual Volume (m ³): 320000 Max Daily Volume (m ³): 1309 Original Application No: NPS/WR/024286 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
4	177m SE	Status: Historical Licence No: 9/40/01/0092/A/GR Details: Boiler Feed Direct Source: Southern Region Groundwater Point: POINT 2, GREENSAND BOREHOLE, NORTHFLEET. Data Type: Point Name: Kimberly-Clark Limited Easting: 562830 Northing: 174120	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 27/05/1966 Version End Date: -
5	224m E	Status: Active Licence No: 9/40/01/0092/B/GR Details: Process Water Direct Source: Southern Region Groundwater Point: BOREHOLE 4, CRETE HALL ROAD, NORTHFLEET. Data Type: Point Name: Kimberly-Clark Limited Easting: 562980 Northing: 174260	Annual Volume (m ³): 4710000 Max Daily Volume (m ³): 19656 Original Application No: WR.1969D Original Start Date: 27/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
C	456m S	Status: Active Licence No: 9/40/01/0092/B/GR Details: Process Water Direct Source: Southern Region Groundwater Point: BOREHOLE 2, H5 CHALK, NORTHFLEET. Data Type: Point Name: Kimberly-Clark Limited Easting: 562450 Northing: 173660	Annual Volume (m ³): 4710000 Max Daily Volume (m ³): 19656 Original Application No: WR.1969D Original Start Date: 27/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
7	457m SW	Status: Active Licence No: 9/40/01/0092/B/GR Details: Process Water Direct Source: Southern Region Groundwater Point: BOREHOLE 3, SPRINGHEAD LAKE, NORTHFLEET. Data Type: Point Name: Kimberly-Clark Limited Easting: 562260 Northing: 173750	Annual Volume (m ³): 4710000 Max Daily Volume (m ³): 19656 Original Application No: WR.1969D Original Start Date: 27/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -



ID	Location	Details	
C	466m S	Status: Active Licence No: 9/40/01/0092/B/GR Details: Process Water Direct Source: Southern Region Groundwater Point: BOREHOLE 1, H5 CHALK, NORTHFLEET. Data Type: Point Name: Kimberly-Clark Limited Easting: 562410 Northing: 173660	Annual Volume (m ³): 4710000 Max Daily Volume (m ³): 19656 Original Application No: WR.1969D Original Start Date: 27/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
D	488m SW	Status: Historical Licence No: 9/40/01/0051/GR Details: Evaporative Cooling Direct Source: Southern Region Groundwater Point: POINT A AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: LaFarge Cement UK PLC Easting: 562210 Northing: 173750	Annual Volume (m ³): 1235375 Max Daily Volume (m ³): 10060 Original Application No: - Original Start Date: 10/04/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/11/2007 Version End Date: -
D	488m SW	Status: Active Licence No: 9/40/01/0051/GR Details: Non-Evaporative Cooling Direct Source: Southern Region Groundwater Point: POINT A AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 562210 Northing: 173750	Annual Volume (m ³): 1186000 Max Daily Volume (m ³): 3382 Original Application No: NPS/WR/035230 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 105 Version Start Date: 26/02/2021 Version End Date: -
D	488m SW	Status: Active Licence No: 9/40/01/0051/GR Details: Process Water Direct Source: Southern Region Groundwater Point: POINT A AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 562210 Northing: 173750	Annual Volume (m ³): 1186000 Max Daily Volume (m ³): 3382 Original Application No: NPS/WR/035230 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 105 Version Start Date: 26/02/2021 Version End Date: -



ID	Location	Details	
D	488m SW	Status: Active Licence No: 9/40/01/0051/GR Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Southern Region Groundwater Point: POINT A AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 562210 Northing: 173750	Annual Volume (m ³): 1186000 Max Daily Volume (m ³): 3382 Original Application No: NPS/WR/035230 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 105 Version Start Date: 26/02/2021 Version End Date: -
D	488m SW	Status: Active Licence No: 9/40/01/0051/GR Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 562210 Northing: 173750	Annual Volume (m ³): 1186000 Max Daily Volume (m ³): 3382 Original Application No: NPS/WR/035230 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 105 Version Start Date: 26/02/2021 Version End Date: -
E	677m SW	Status: Historical Licence No: 9/40/01/0051/GR Details: Evaporative Cooling Direct Source: Southern Region Groundwater Point: POINT B AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: LaFarge Cement UK PLC Easting: 561920 Northing: 173800	Annual Volume (m ³): 1235375 Max Daily Volume (m ³): 10060 Original Application No: - Original Start Date: 10/04/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/11/2007 Version End Date: -
E	677m SW	Status: Active Licence No: 9/40/01/0051/GR Details: Non-Evaporative Cooling Direct Source: Southern Region Groundwater Point: POINT B AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 561920 Northing: 173800	Annual Volume (m ³): 1186000 Max Daily Volume (m ³): 3382 Original Application No: NPS/WR/035230 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 105 Version Start Date: 26/02/2021 Version End Date: -



ID	Location	Details	
E	677m SW	Status: Active Licence No: 9/40/01/0051/GR Details: Process Water Direct Source: Southern Region Groundwater Point: POINT B AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 561920 Northing: 173800	Annual Volume (m ³): 1186000 Max Daily Volume (m ³): 3382 Original Application No: NPS/WR/035230 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 105 Version Start Date: 26/02/2021 Version End Date: -
E	677m SW	Status: Active Licence No: 9/40/01/0051/GR Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT B AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 561920 Northing: 173800	Annual Volume (m ³): 1186000 Max Daily Volume (m ³): 3382 Original Application No: NPS/WR/035230 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 105 Version Start Date: 26/02/2021 Version End Date: -
E	677m SW	Status: Active Licence No: 9/40/01/0051/GR Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Southern Region Groundwater Point: POINT B AT BLUE LAKE NORTHFLEET CEMENT WORKS Data Type: Point Name: Tarmac Cement and Lime Limited Easting: 561920 Northing: 173800	Annual Volume (m ³): 1186000 Max Daily Volume (m ³): 3382 Original Application No: NPS/WR/035230 Original Start Date: 10/04/1967 Expiry Date: - Issue No: 105 Version Start Date: 26/02/2021 Version End Date: -
F	729m SW	Status: Historical Licence No: 01/144 Details: Laundry Use Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE AT SPRINGHEAD ENTERPRISE PARK Data Type: Point Name: Shaws Laundries Ltd Easting: 562230 Northing: 173450	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/07/2000 Expiry Date: 05/06/2003 Issue No: 1 Version Start Date: 28/07/2000 Version End Date: -



ID	Location	Details	
F	729m SW	Status: Historical Licence No: 01/154 Details: Laundry Use Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE AT SPRINGHEAD ENTERPRISE PARK Data Type: Point Name: Berendsen UK Limited Easting: 562230 Northing: 173450	Annual Volume (m ³): 120000 Max Daily Volume (m ³): 400 Original Application No: - Original Start Date: 03/05/2004 Expiry Date: 31/03/2018 Issue No: 5 Version Start Date: 05/12/2014 Version End Date: -
F	729m SW	Status: Active Licence No: 01/154/R01 Details: Laundry Use Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE AT SPRINGHEAD ENTERPRISE PARK Data Type: Point Name: Elis UK Limited Easting: 562230 Northing: 173450	Annual Volume (m ³): 120000 Max Daily Volume (m ³): 400 Original Application No: NPS/WR/035840 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 2 Version Start Date: 05/05/2021 Version End Date: -
-	1282m SW	Status: Historical Licence No: 9/40/01/0523/G Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A, WINGFIELD PARK FARM IN SOUTHFLEET. Data Type: Point Name: Beslee Farms Easting: 561900 Northing: 173000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 12/03/1996 Version End Date: -
-	1282m SW	Status: Historical Licence No: 01/0157 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A, WINGFIELD PARK FARM IN SOUTHFLEET. Data Type: Point Name: Ebbsfleet Investment (GP) Limited Easting: 561900 Northing: 173000	Annual Volume (m ³): 16843 Max Daily Volume (m ³): 682 Original Application No: - Original Start Date: 17/11/2004 Expiry Date: 31/03/2018 Issue No: 2 Version Start Date: 18/07/2014 Version End Date: -



ID	Location	Details	
-	1570m SW	Status: Active Licence No: 9/40/01/0504/G/R01 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172811	Annual Volume (m ³): 5910 Max Daily Volume (m ³): 910 Original Application No: NPS/WR/012674 Original Start Date: 01/04/2014 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1570m SW	Status: Active Licence No: 9/40/01/0504/G/R01 Details: General Washing/Process Washing Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172811	Annual Volume (m ³): 5910 Max Daily Volume (m ³): 910 Original Application No: NPS/WR/012674 Original Start Date: 01/04/2014 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1571m SW	Status: Historical Licence No: 9/40/01/0504/G Details: General Washing/Process Washing Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172810	Annual Volume (m ³): 5910 Max Daily Volume (m ³): 909.6 Original Application No: - Original Start Date: - Expiry Date: 31/03/2014 Issue No: 101 Version Start Date: 27/11/2006 Version End Date: -
-	1571m SW	Status: Historical Licence No: 9/40/01/0504/G Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172810	Annual Volume (m ³): 5910 Max Daily Volume (m ³): 909.6 Original Application No: - Original Start Date: - Expiry Date: 31/03/2014 Issue No: 101 Version Start Date: 27/11/2006 Version End Date: -
-	1625m SW	Status: Historical Licence No: 9/40/01/0504/G Details: General Washing/Process Washing Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D.T.G. Elliott & Son Ltd. Easting: 561700 Northing: 172720	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 15/05/1978 Version End Date: -



ID	Location	Details	
-	1625m SW	Status: Historical Licence No: 9/40/01/0504/G Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET. Data Type: Point Name: D.T.G. Elliott & Son Ltd. Easting: 561700 Northing: 172720	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 15/05/1978 Version End Date: -
-	1654m SW	Status: Historical Licence No: 9/40/01/0504/G Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172710	Annual Volume (m ³): 5910 Max Daily Volume (m ³): 909.6 Original Application No: - Original Start Date: - Expiry Date: 31/03/2014 Issue No: 101 Version Start Date: 27/11/2006 Version End Date: -
-	1654m SW	Status: Historical Licence No: 9/40/01/0504/G Details: General Washing/Process Washing Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172710	Annual Volume (m ³): 5910 Max Daily Volume (m ³): 909.6 Original Application No: - Original Start Date: - Expiry Date: 31/03/2014 Issue No: 101 Version Start Date: 27/11/2006 Version End Date: -
-	1654m SW	Status: Active Licence No: 9/40/01/0504/G/R01 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172710	Annual Volume (m ³): 5910 Max Daily Volume (m ³): 910 Original Application No: NPS/WR/012674 Original Start Date: 01/04/2014 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1654m SW	Status: Active Licence No: 9/40/01/0504/G/R01 Details: General Washing/Process Washing Direct Source: Southern Region Groundwater Point: POINT A, BOREHOLE, H5 CHALK, SOUTHFLEET Data Type: Point Name: D T G Elliott & Son Ltd Easting: 561660 Northing: 172710	Annual Volume (m ³): 5910 Max Daily Volume (m ³): 910 Original Application No: NPS/WR/012674 Original Start Date: 01/04/2014 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -



ID	Location	Details	
-	1733m SW	Status: Historical Licence No: 01/152 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE AT SOUTHFLEET, KENT Data Type: Point Name: Thames Water Utilities Ltd Easting: 561161 Northing: 173057	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/07/2002 Expiry Date: 30/09/2004 Issue No: 1 Version Start Date: 07/07/2002 Version End Date: -
-	1738m SW	Status: Historical Licence No: 01/156 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE POINT F, (EPM) SOUTHFLEET (BOREHOLE & TWO AUDITS) Data Type: Point Name: Thames Water Utilities Ltd Easting: 561160 Northing: 173050	Annual Volume (m ³): 9198000 Max Daily Volume (m ³): 24200 Original Application No: - Original Start Date: 01/10/2004 Expiry Date: 31/03/2010 Issue No: 3 Version Start Date: 01/02/2008 Version End Date: -
-	1738m SW	Status: Historical Licence No: SO/040/0037/006 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE POINT F, (EPM) SOUTHFLEET (BOREHOLE & TWO AUDITS) Data Type: Point Name: Thames Water Utilities Ltd Easting: 561160 Northing: 173050	Annual Volume (m ³): 6716000 Max Daily Volume (m ³): 24200 Original Application No: - Original Start Date: 23/06/2010 Expiry Date: 31/03/2020 Issue No: 1 Version Start Date: 23/06/2010 Version End Date: -
-	1738m SW	Status: Active Licence No: SO/040/0037/006/R01 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE POINT F, (EPM) SOUTHFLEET (BOREHOLE & TWO AUDITS) Data Type: Point Name: Thames Water Utilities Ltd Easting: 561160 Northing: 173050	Annual Volume (m ³): 6716000 Max Daily Volume (m ³): 24200 Original Application No: NPS/WR/033754 Original Start Date: 01/04/2020 Expiry Date: 31/03/2026 Issue No: 2 Version Start Date: 20/04/2020 Version End Date: -

ID	Location	Details	
-	1762m SW	Status: Historical Licence No: 9/40/01/0088/B/GR Details: Process water Direct Source: Southern Region Groundwater Point: POINT 1, WELL NR. NEW BARN IN SWANSCOMBE, KENT. Data Type: Point Name: Empire Paper Limited Easting: 561130 Northing: 173050	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 30/07/1993 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 123 >](#)

ID	Location	Details	
8	865m NW	Status: Active Licence No: 9/40/01/0522/S Details: Mineral Washing Direct Source: Southern Region Surface Waters Point: POINT A, TIDAL RIVER THAMES AT SWANSCOMBE. Data Type: Point Name: Robert Brett & Sons Ltd Easting: 561870 Northing: 175100	Annual Volume (m ³): 45500 Max Daily Volume (m ³): 375 Original Application No: 169/872 Original Start Date: 06/02/1990 Expiry Date: - Issue No: 101 Version Start Date: 01/01/2002 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	4
-----------------------------	----------

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 123 >](#)



ID	Location	Details	
-	1733m SW	Status: Historical Licence No: 01/152 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: POINT B, BOREHOLE AT SOUTHFLEET, KENT Data Type: Point Name: Thames Water Utilities Ltd Easting: 561161 Northing: 173057	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/07/2002 Expiry Date: 30/09/2004 Issue No: 1 Version Start Date: 07/07/2002 Version End Date: -
-	1738m SW	Status: Historical Licence No: 01/156 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE POINT F, (EPM) SOUTHFLEET (BOREHOLE & TWO AUDITS) Data Type: Point Name: Thames Water Utilities Ltd Easting: 561160 Northing: 173050	Annual Volume (m ³): 9198000 Max Daily Volume (m ³): 24200 Original Application No: - Original Start Date: 01/10/2004 Expiry Date: 31/03/2010 Issue No: 3 Version Start Date: 01/02/2008 Version End Date: -
-	1738m SW	Status: Historical Licence No: SO/040/0037/006 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE POINT F, (EPM) SOUTHFLEET (BOREHOLE & TWO AUDITS) Data Type: Point Name: Thames Water Utilities Ltd Easting: 561160 Northing: 173050	Annual Volume (m ³): 6716000 Max Daily Volume (m ³): 24200 Original Application No: - Original Start Date: 23/06/2010 Expiry Date: 31/03/2020 Issue No: 1 Version Start Date: 23/06/2010 Version End Date: -
-	1738m SW	Status: Active Licence No: SO/040/0037/006/R01 Details: Potable Water Supply - Direct Direct Source: Southern Region Groundwater Point: BOREHOLE POINT F, (EPM) SOUTHFLEET (BOREHOLE & TWO AUDITS) Data Type: Point Name: Thames Water Utilities Ltd Easting: 561160 Northing: 173050	Annual Volume (m ³): 6716000 Max Daily Volume (m ³): 24200 Original Application No: NPS/WR/033754 Original Start Date: 01/04/2020 Expiry Date: 31/03/2026 Issue No: 2 Version Start Date: 20/04/2020 Version End Date: -

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



5.9 Source Protection Zones

Records within 500m	10
----------------------------	-----------

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on [page 123 >](#)

ID	Location	Type	Description
1	On site	1	Inner catchment
2	On site	3	Total catchment
3	On site	2	Outer catchment
A	On site	1	Inner catchment
A	On site	3	Total catchment
A	18m NE	3	Total catchment
A	18m NE	3	Total catchment
A	24m NE	3	Total catchment
A	41m NE	3	Total catchment
6	378m NW	3	Total catchment

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

5.10 Source Protection Zones (confined aquifer)

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

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

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

6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

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.

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 136 >](#)

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	130	Lower Medway	Medway

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

6.4 WFD Surface water bodies

Records identified

1

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

Features are displayed on the Hydrology map on [page 136 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	2m N	Transi	THAMES MIDDLE	GB530603911402 ↗	Moderate	Fail	Moderate	2019

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



6.5 WFD Groundwater bodies

Records on site	1
------------------------	----------

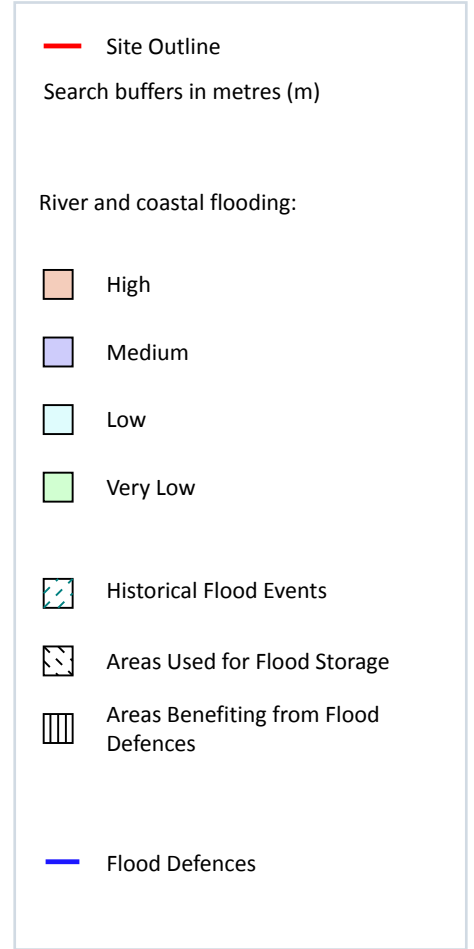
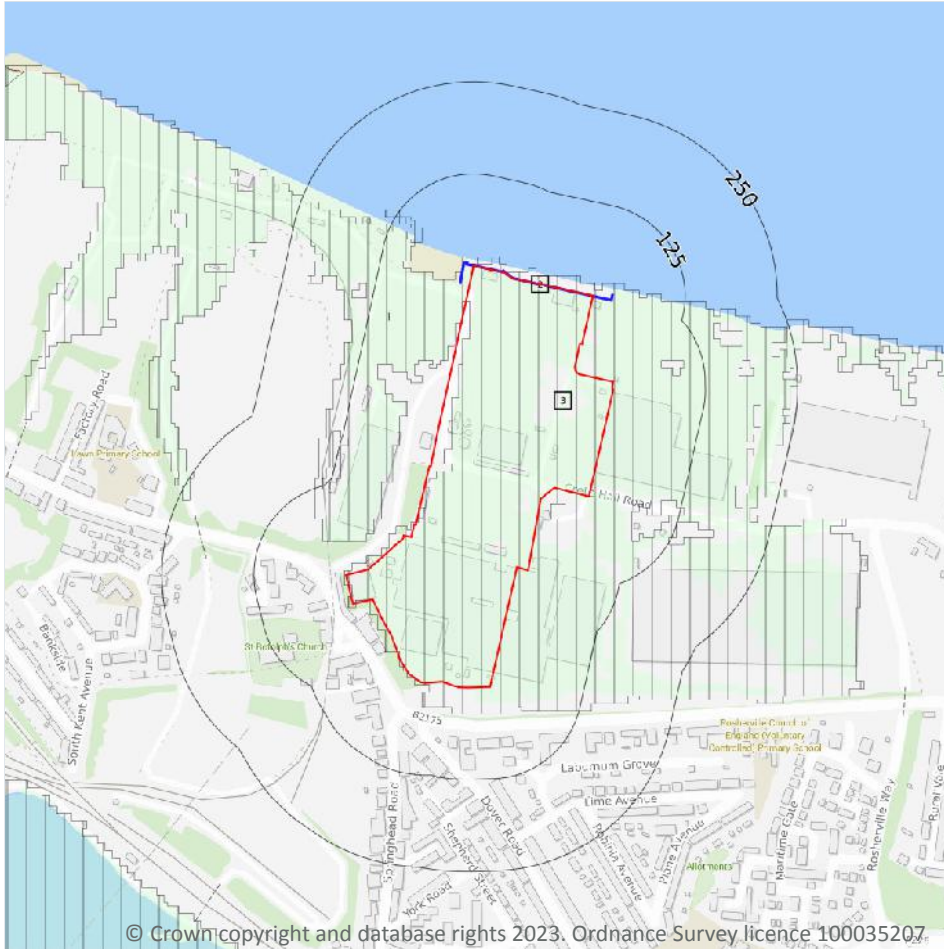
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on [page 136 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	North Kent Medway Chalk	GB40601G500300 ↗	Poor	Poor	Poor	2019

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

7 River and coastal flooding



7.1 Risk of flooding from rivers and the sea

Records within 50m

2

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 139 >](#)

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

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	2
----------------------------	----------

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.

Features are displayed on the River and coastal flooding map on [page 139 >](#)

ID	Location	Update
2	On site	08/11/2022
A	8m N	08/11/2022

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	1
----------------------------	----------

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

Features are displayed on the River and coastal flooding map on [page 139 >](#)

ID	Location	
3	On site	Area benefiting from flood defences

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

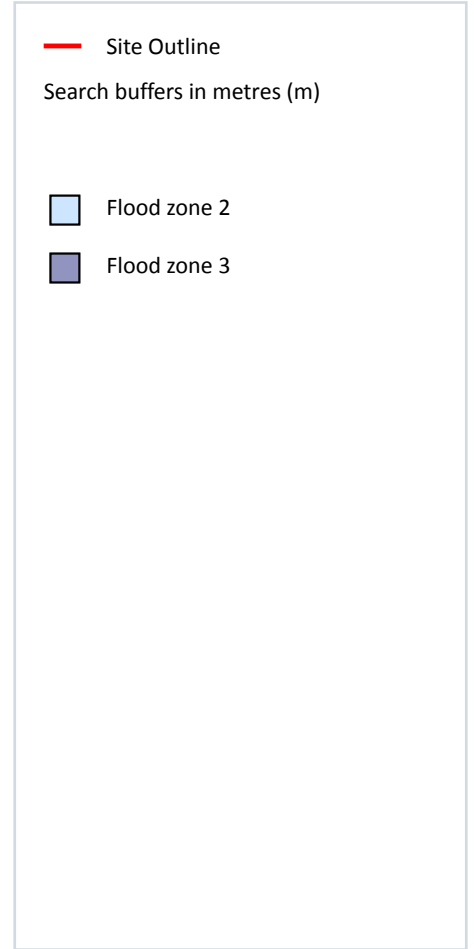
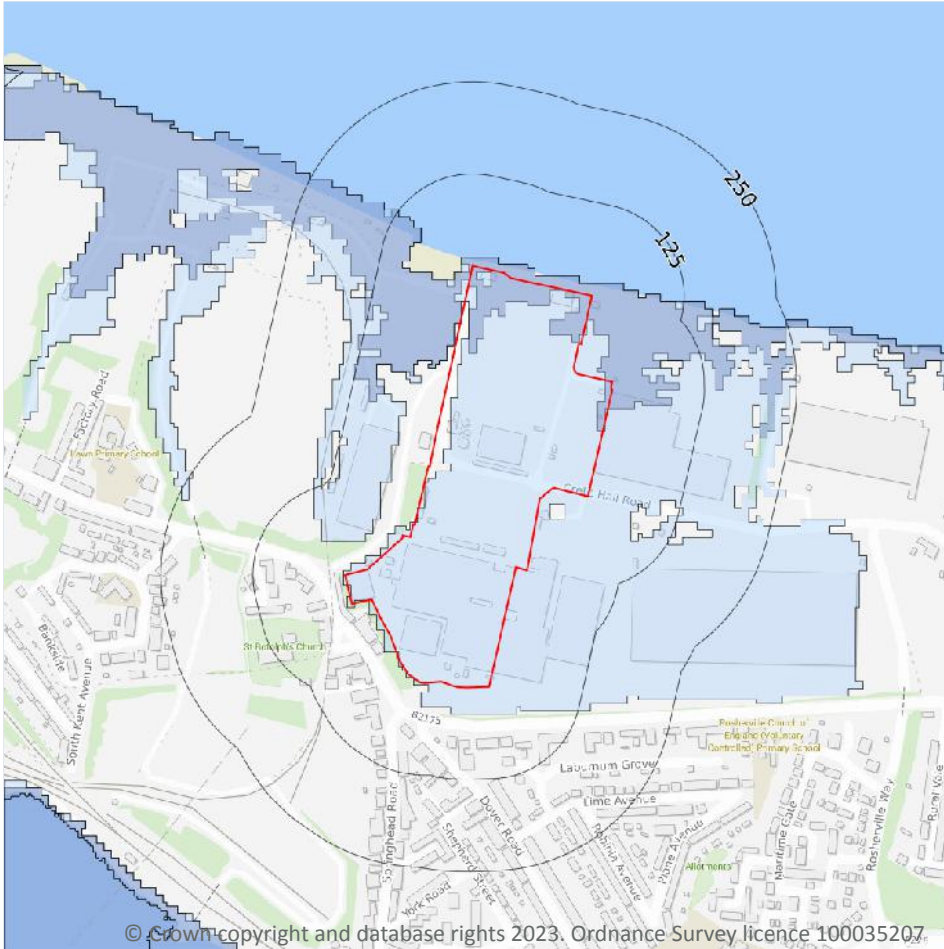
7.5 Flood Storage Areas

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

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

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

River and coastal flooding - Flood Zones



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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 139 >](#)

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.

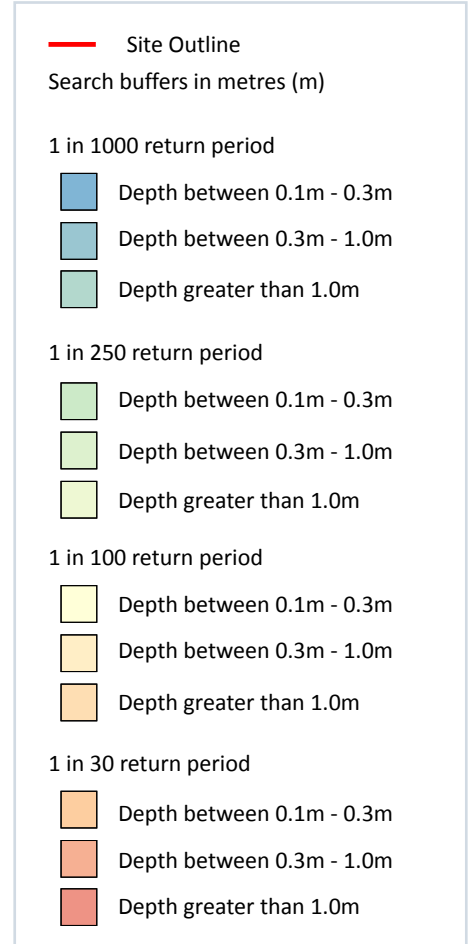
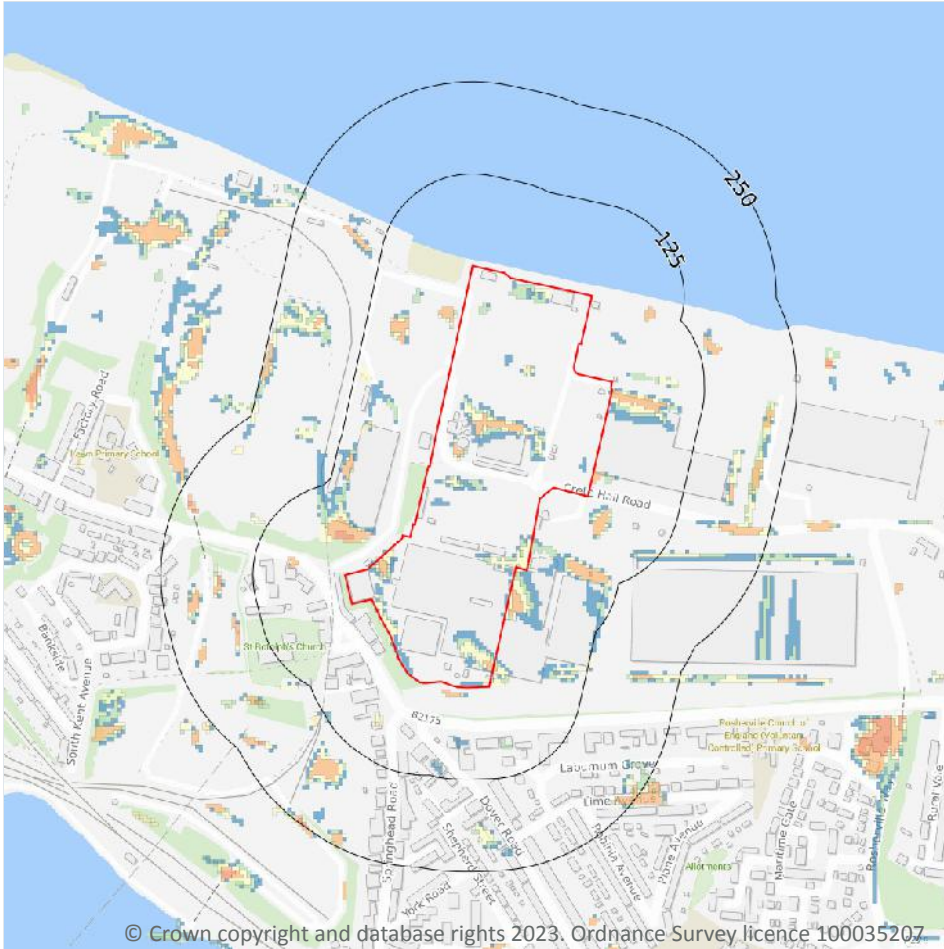
Features are displayed on the River and coastal flooding map on [page 139](#) >

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, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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

Features are displayed on the Surface water flooding map on [page 144 >](#)

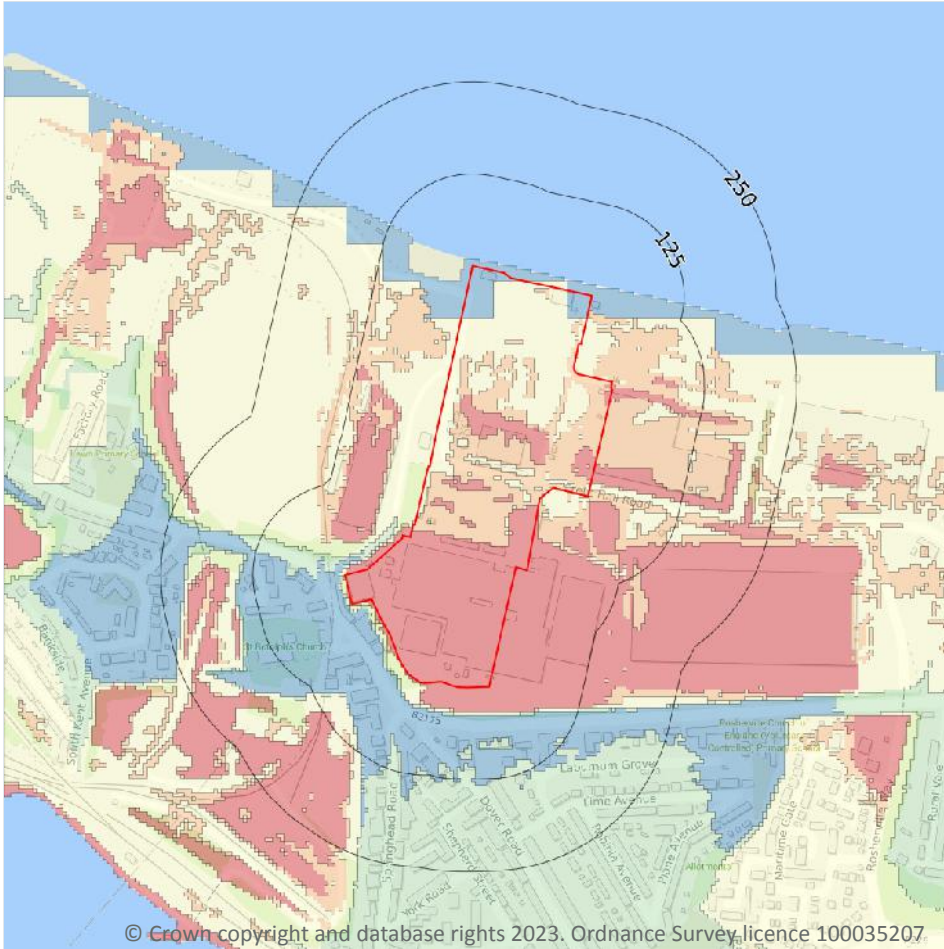
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



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— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

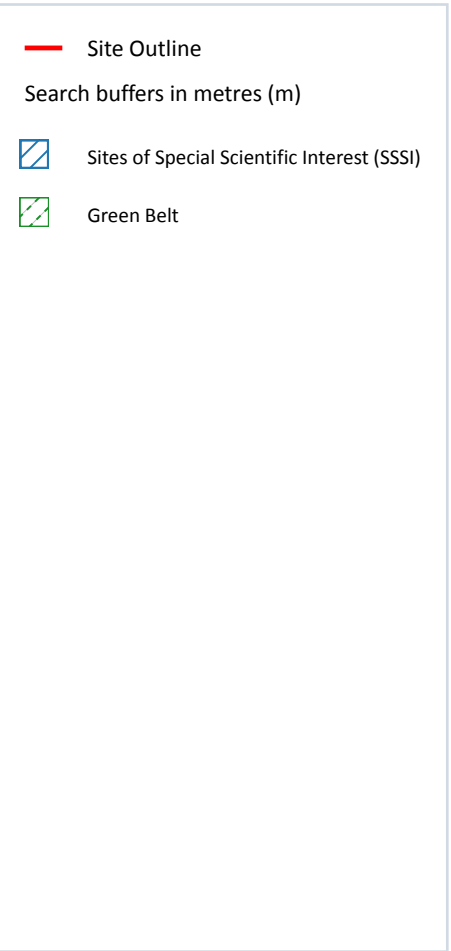
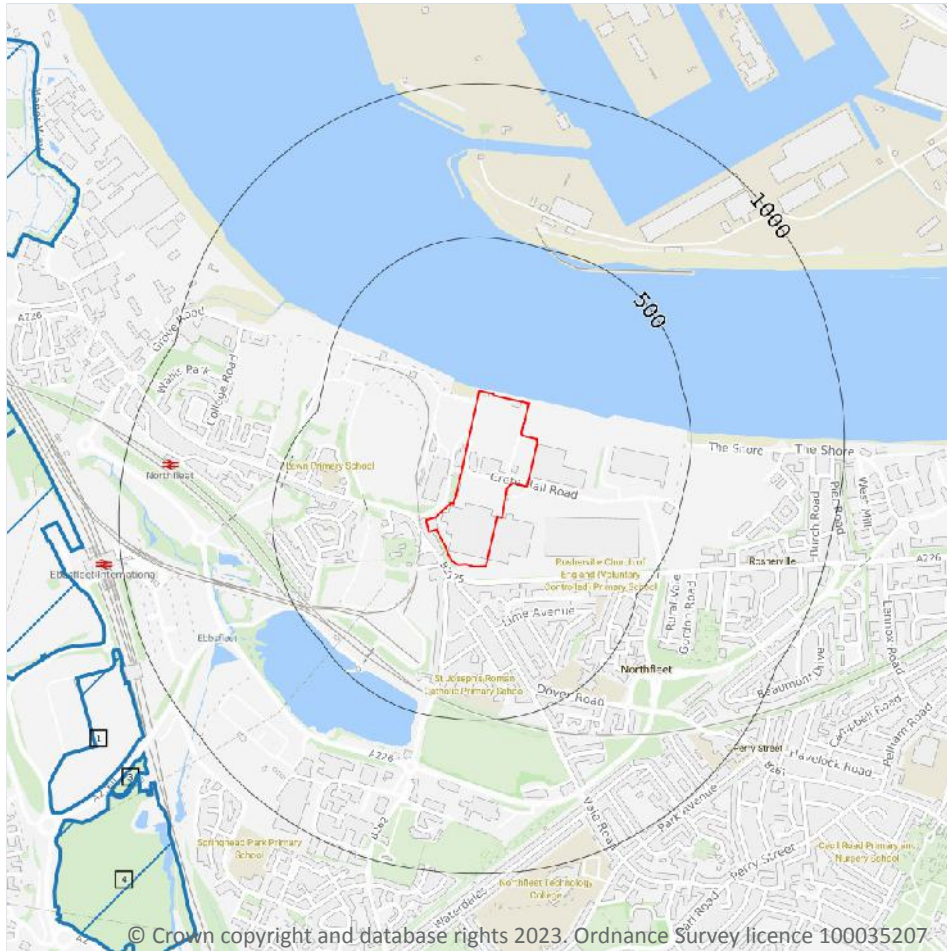
High

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

Features are displayed on the Groundwater flooding map on [page 146](#) >

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

7

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

Features are displayed on the Environmental designations map on [page 147 >](#)

ID	Location	Name	Data source
1	1080m SW	Swanscombe Peninsula	Natural England

ID	Location	Name	Data source
2	1103m W	Swanscombe Peninsula	Natural England
3	1178m SW	Swanscombe Peninsula	Natural England
4	1209m SW	Swanscombe Peninsula	Natural England
5	1442m NW	Swanscombe Peninsula	Natural England
-	1503m W	Swanscombe Peninsula	Natural England
-	1966m W	Swanscombe Peninsula	Natural England

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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



10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m

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

2

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

Features are displayed on the Environmental designations map on [page 147 >](#)

ID	Location	Name	Local Authority name
-	1766m SW	London	Dartford
-	1974m S	London	Gravesham

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

1

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.

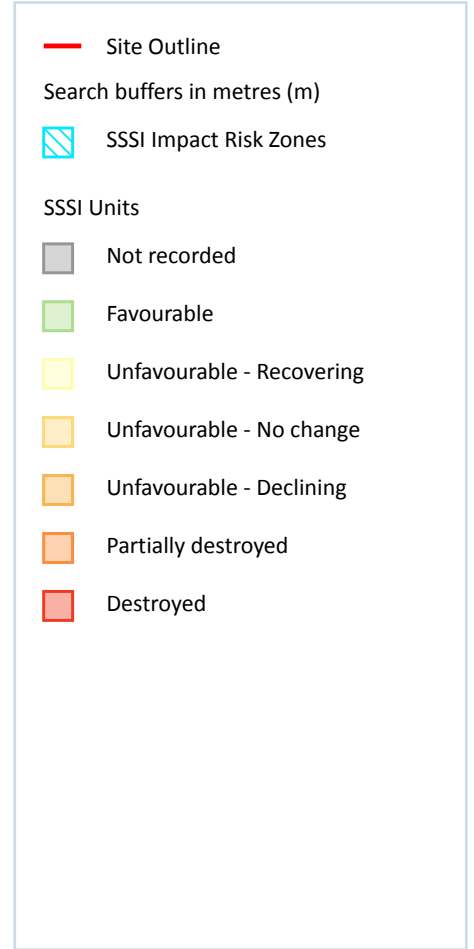
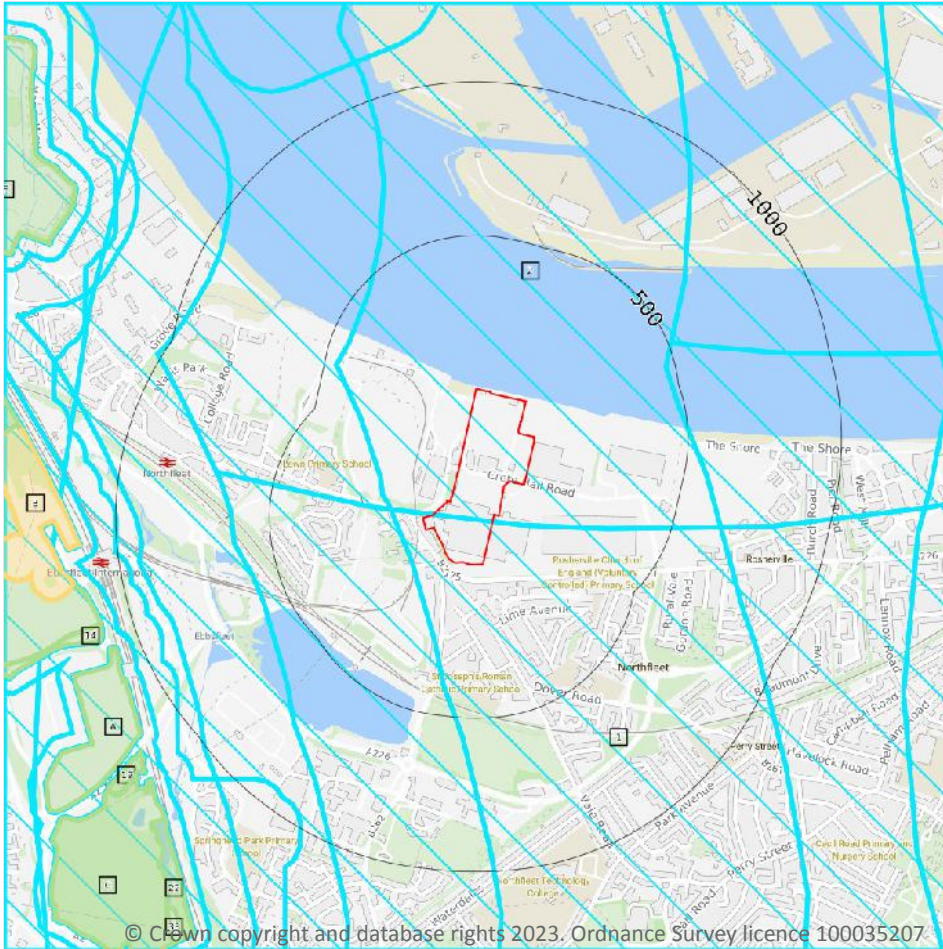
Location	Name	Type	NVZ ID	Status
214m SW	North Kent	Groundwater	65	Existing



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 153](#) >

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 > 200m², manure stores > 250t).</p> <p>Combustion - General combustion processes >20mw 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>Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p> <p>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.</p> <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>

ID	Location	Type of developments requiring consultation
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 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 > 200m², manure stores > 250t).</p> <p>Combustion - General combustion processes >20mw 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>Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Discharges - Any discharge of water or liquid waste of more than 20m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p> <p>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.</p> <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	16
-----------------------------	-----------

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

Features are displayed on the SSSI Impact Zones and Units map on [page 153 >](#)

ID:	A
Location:	1080m SW
SSSI name:	Swanscombe Peninsula
Unit name:	Station Quarters
Broad habitat:	
Condition:	Favourable



Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Vascular Plant Species: Carex divisa, Divided Sedge	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021

ID: 13
 Location: 1103m W
 SSSI name: Swanscombe Peninsula
 Unit name: Northfleet Landfill, West
 Broad habitat:
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021
Vascular Plant Species: Vicia bithynica, Bithynian Vetch	Favourable	11/03/2021

ID: 14
 Location: 1103m W
 SSSI name: Swanscombe Peninsula
 Unit name: Station Quarters
 Broad habitat:
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021



Feature name	Feature condition	Date of assessment
Vascular Plant Species: Carex divisa, Divided Sedge	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021

ID: B
 Location: 1121m W
 SSSI name: Swanscombe Peninsula
 Unit name: Baker's Hole
 Broad habitat:
 Condition: Unfavourable - No change
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
FM - Quaternary of the Thames	Unfavourable - No change	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021

ID: 19
 Location: 1178m SW
 SSSI name: Swanscombe Peninsula
 Unit name: Ebbsfleet Valley, West
 Broad habitat:
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021



ID: C
 Location: 1209m SW
 SSSI name: Swanscombe Peninsula
 Unit name: Ebbsfleet Valley, West
 Broad habitat:
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021

ID: 22
 Location: 1254m SW
 SSSI name: Swanscombe Peninsula
 Unit name: Ebbsfleet Valley, East
 Broad habitat:
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021

ID: 30
 Location: 1344m W
 SSSI name: Swanscombe Peninsula
 Unit name: Bamber Pit, South
 Broad habitat:
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Vascular Plant Species: Carex divisa, Divided Sedge	Favourable	11/03/2021

ID: -
 Location: 1429m W
 SSSI name: Swanscombe Peninsula
 Unit name: Bamber Pit, North
 Broad habitat:
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Vascular Plant Species: Carex divisa, Divided Sedge	Favourable	11/03/2021

ID: F
 Location: 1442m NW
 SSSI name: Swanscombe Peninsula
 Unit name: Botany Marsh East
 Broad habitat:
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021

Feature name	Feature condition	Date of assessment
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	11/03/2021
Invert. assemblage W211 open water on disturbed sediments	Favourable	11/03/2021
Vascular Plant Species: Carex divisa, Divided Sedge	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021

ID: 33
 Location: 1447m SW
 SSSI name: Swanscombe Peninsula
 Unit name: Spring Head
 Broad habitat:
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021

ID: -
 Location: 1503m W
 SSSI name: Swanscombe Peninsula
 Unit name: Sports Field East Quarry
 Broad habitat:
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021

ID: -
 Location: 1743m NW
 SSSI name: Swanscombe Peninsula
 Unit name: Botany Marsh West, South
 Broad habitat:
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	11/03/2021
Invert. assemblage W211 open water on disturbed sediments	Favourable	11/03/2021

ID: -
 Location: 1818m NW
 SSSI name: Swanscombe Peninsula
 Unit name: Botany Marsh West, North
 Broad habitat:
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	11/03/2021
Invert. assemblage W211 open water on disturbed sediments	Favourable	11/03/2021
Vascular Plant Species: Bupleurum tenuissimum, Slender Hare's-ear	Favourable	11/03/2021
Vascular Plant Species: Carex divisa, Divided Sedge	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021

ID: -
 Location: 1952m NW
 SSSI name: Swanscombe Peninsula
 Unit name: Broadness
 Broad habitat:
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland open waters and their margins, Lowland fen and Lowland damp grassland	Favourable	11/03/2021
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	11/03/2021
Vascular Plant Species: Bupleurum tenuissimum, Slender Hare's-ear	Favourable	11/03/2021
Vascular Plant Species: Lathyrus aphaca, Yellow Vetchling	Favourable	11/03/2021
Vascular Plant Species: Vicia bithynica, Bithynian Vetch	Favourable	11/03/2021

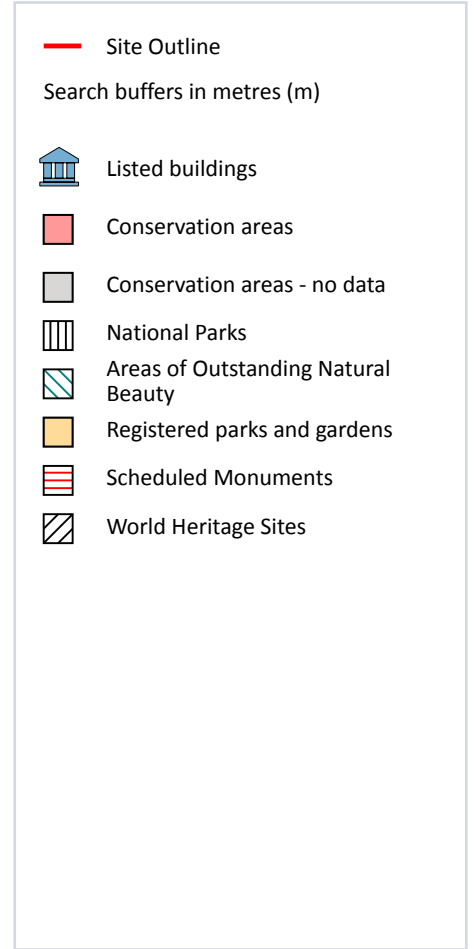
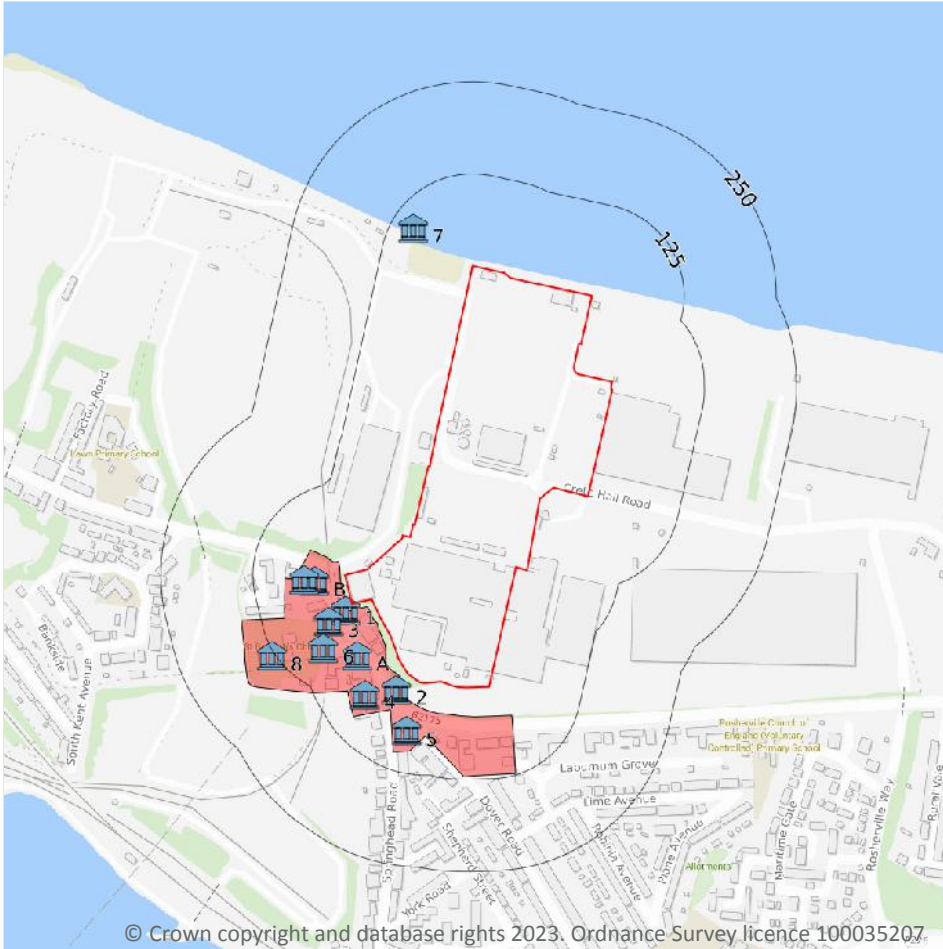
ID: -
 Location: 1966m W
 SSSI name: Swanscombe Peninsula
 Unit name: Craylands Pit
 Broad habitat:
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Scrub	Favourable	11/03/2021
Invert. assemblage F111 bare sand & chalk	Favourable	11/03/2021
Invert. assemblage F112 open short sward	Favourable	11/03/2021
Invert. assemblage M311 saltmarsh and transitional brackish marsh	Favourable	11/03/2021

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



11 Visual and cultural designations



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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

11

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

Features are displayed on the Visual and cultural designations map on [page 163 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	12m SW	31, The Hill, Northfleet, Gravesham, Kent, DA11	II	1081096	26/07/1983
2	26m SW	K6 Telephone Kiosk, Northfleet, Gravesham, Kent, DA11	II	1083902	31/03/1988
3	40m SW	The Coach and Horses Public House, Northfleet, Gravesham, Kent, DA11	II	1081095	26/07/1983
B	43m SW	Garden Wall and Gate Piers To Nos 1 and 2, Northfleet, Gravesham, Kent, DA11	II	1081090	26/07/1983
A	52m SW	7, The Hill, Northfleet, Gravesham, Kent, DA11	II	1367390	26/07/1983



ID	Location	Name	Grade	Reference Number	Listed date
B	56m SW	1 and 2, Granby Place, Northfleet, Gravesham, Kent, DA11	II	1367458	26/07/1983
4	64m SW	Church of Our Lady of The Assumption, Northfleet, Gravesham, Kent, DA11	II*	1081094	26/07/1983
5	68m S	Ye Olde Leather Bottel, Northfleet, Gravesham, Kent, DA11	II	1350210	26/07/1983
6	72m SW	Northfleet War Memorial, Northfleet, Gravesham, Kent, DA11	II	1430440	23/10/2015
7	95m N	Northfleet Lower Lighthouse, Northfleet, Gravesham, Kent, DA11	II	1392254	01/11/2006
8	130m SW	Parish Church of St Botolph, Northfleet, Gravesham, Kent, DA11	I	1054093	04/07/1952

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

11.5 Conservation Areas

Records within 250m

1

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

Features are displayed on the Visual and cultural designations map on [page 163](#) >

ID	Location	Name	District	Date of designation
A	7m SW	The Hill, Northfleet	Gravesham	01/02/1990

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

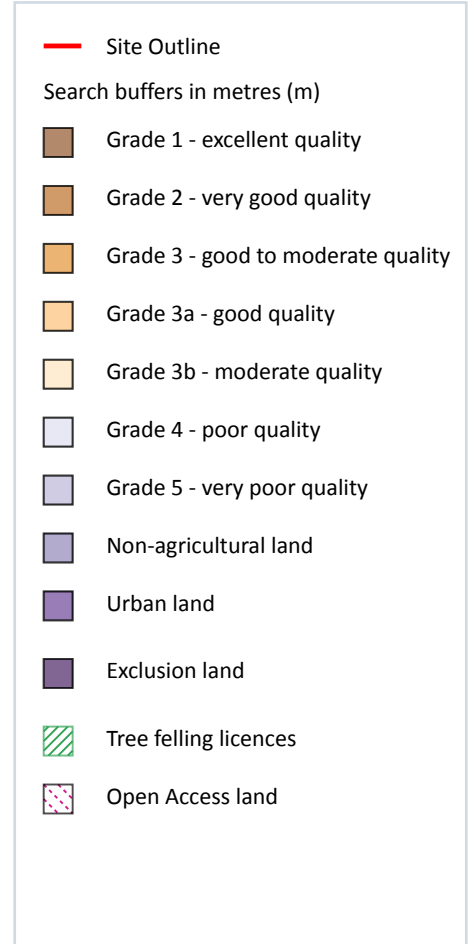
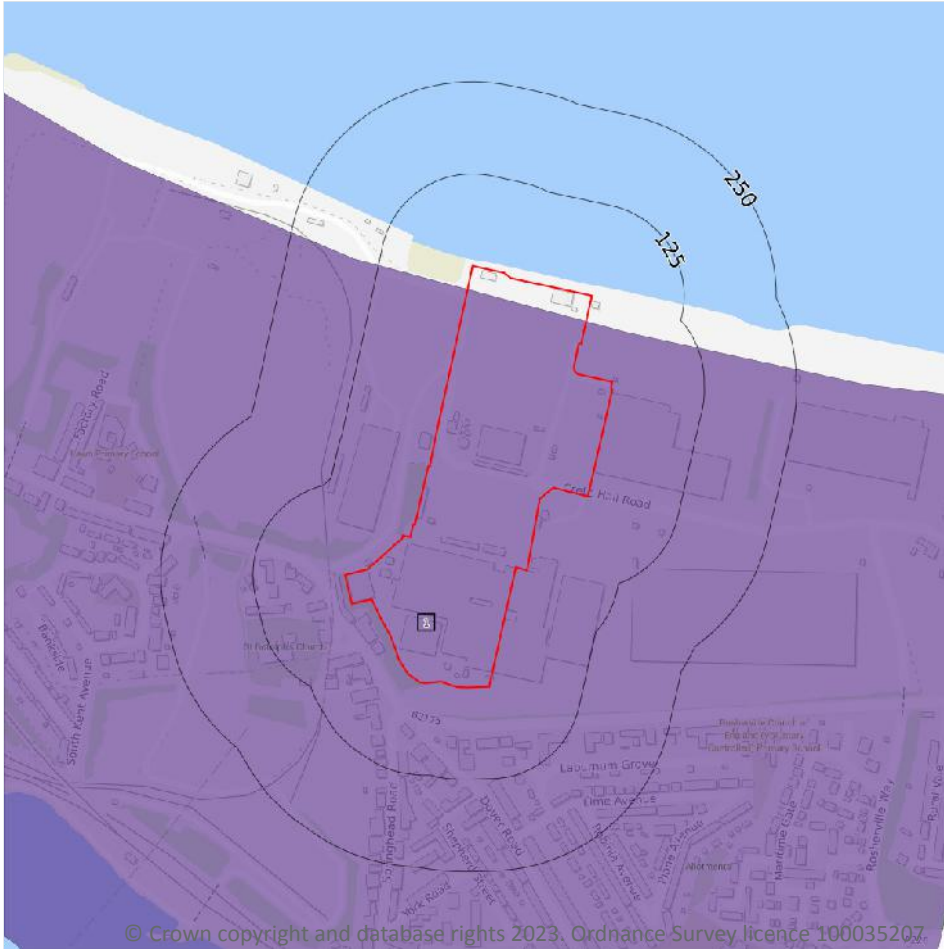
0

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

1

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

Features are displayed on the Agricultural designations map on [page 167](#) >

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

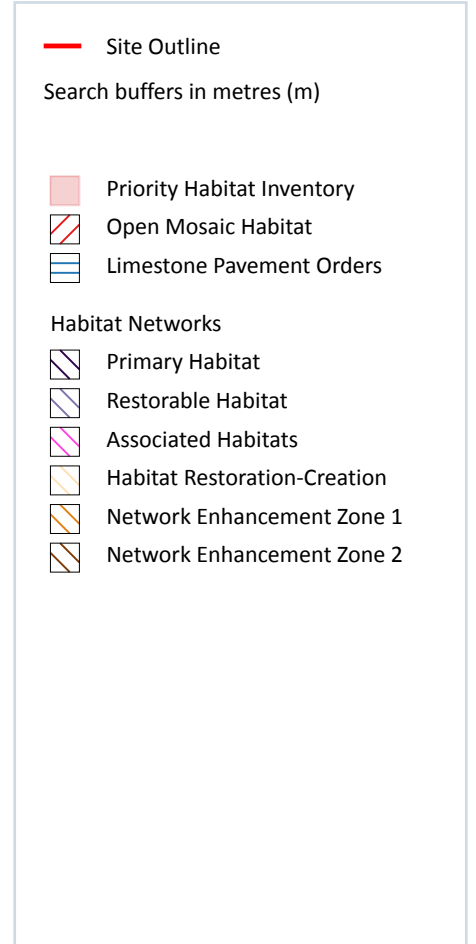
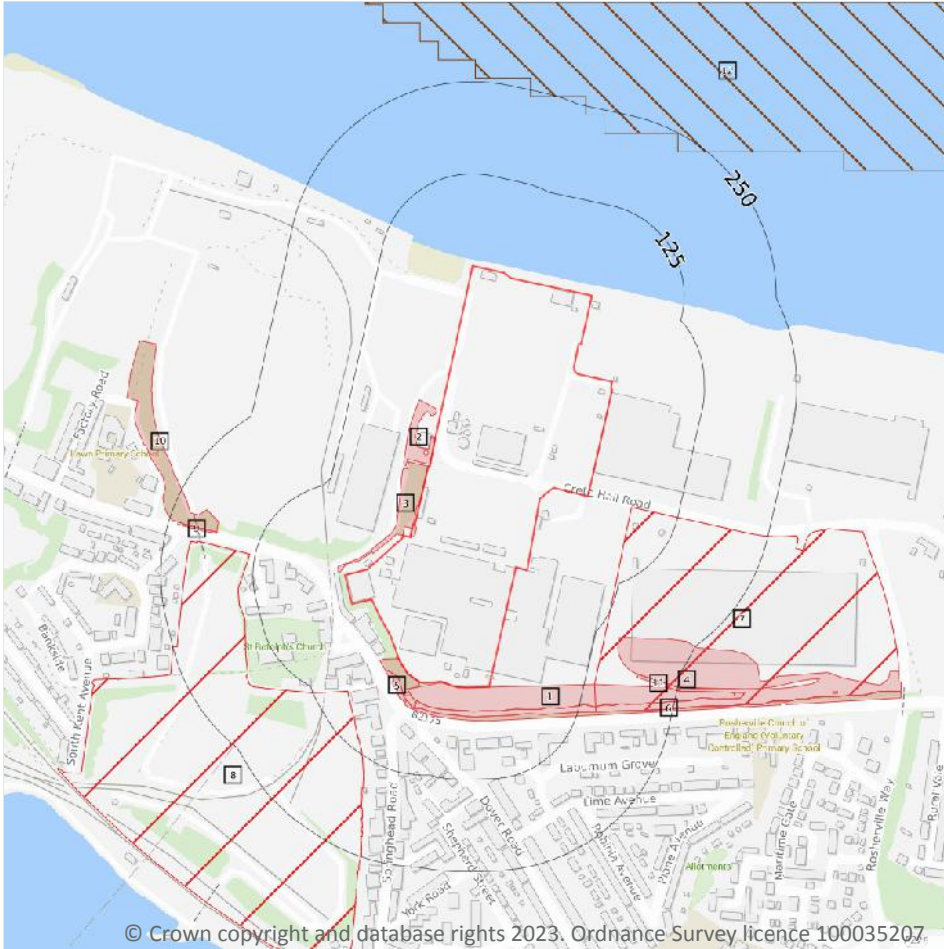
0

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



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13.1 Priority Habitat Inventory

Records within 250m

9

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 169](#) >

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	14m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	30m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	183m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	184m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	193m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

1

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.

Features are displayed on the Habitat designations map on [page 169 >](#)

ID	Location	Type	Habitat
12	219m N	Network Enhancement Zone 2	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

2

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 169 >](#)

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
7	61m E	Rosherville (former works)	High	BugLife All Of A Buzz Data	UK Perspectives Aerial Photography	-



ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
8	82m SW	Northfleet (disused pits); BRITPITS ref: 131039	High	BugLife All Of A Buzz Data	British Geological Survey BRITPITS database	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

2

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

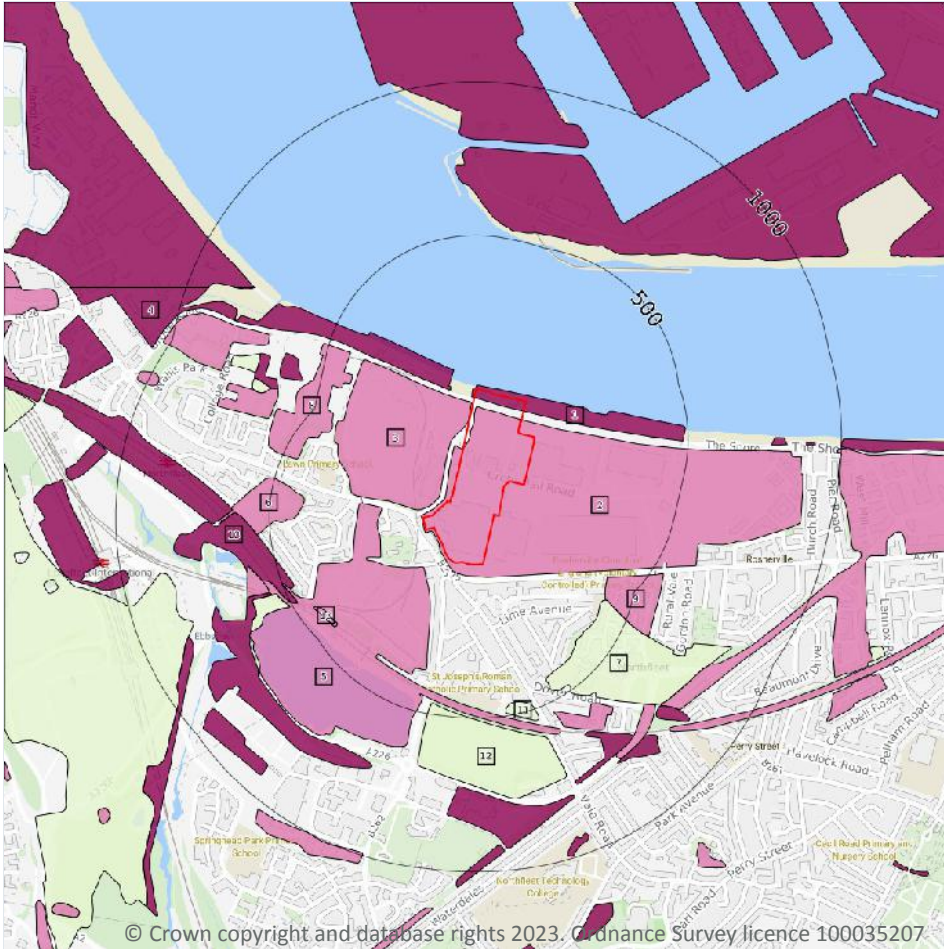
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 172](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	TQ67SW
2	330m N	Full	Full	Full	No coverage	TQ67NW

This data is sourced from the British Geological Survey.



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



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

14.2 Artificial and made ground (10k)

Records within 500m

13

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 173 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	On site	WGR-VOID	Worked Ground (Undivided)	Void
3	2m N	WGR-VOID	Worked Ground (Undivided)	Void
4	80m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

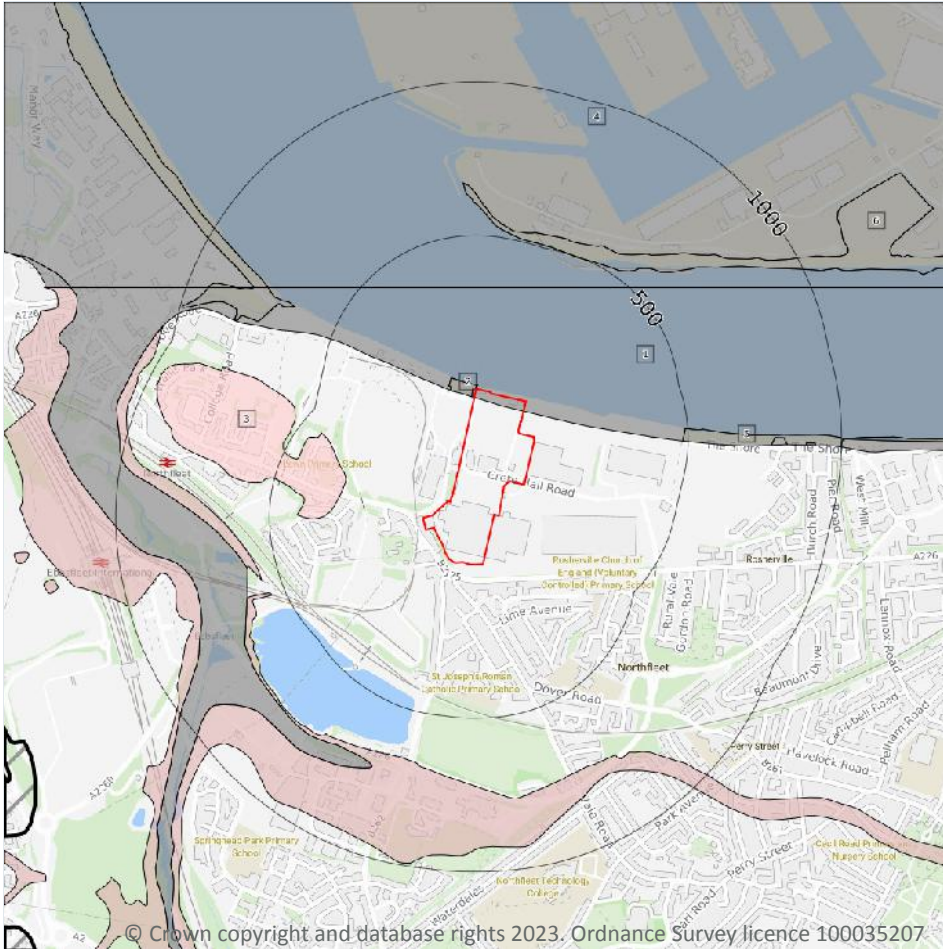



ID	Location	LEX Code	Description	Rock description
5	85m SW	WGR-VOID	Worked Ground (Undivided)	Void
6	390m W	WGR-VOID	Worked Ground (Undivided)	Void
7	392m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
8	402m NW	WGR-VOID	Worked Ground (Undivided)	Void
9	404m SE	WGR-VOID	Worked Ground (Undivided)	Void
10	419m SW	WGR-VOID	Worked Ground (Undivided)	Void
11	460m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
12	462m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
13	465m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
-  Landslip (10k)
- Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

6

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 175 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt
2	3m N	TRD-Z	Tidal River Or Creek Deposits - Silt	Silt
3	277m W	BHT-XSV	Boyn Hill Gravel Member - Sand And Gravel	Sand And Gravel
4	330m N	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt



ID	Location	LEX Code	Description	Rock description
5	483m E	TRD-Z	Tidal River Or Creek Deposits - Silt	Silt
6	498m NE	TRD-Z	Tidal River Or Creek Deposits - Silt	Silt

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

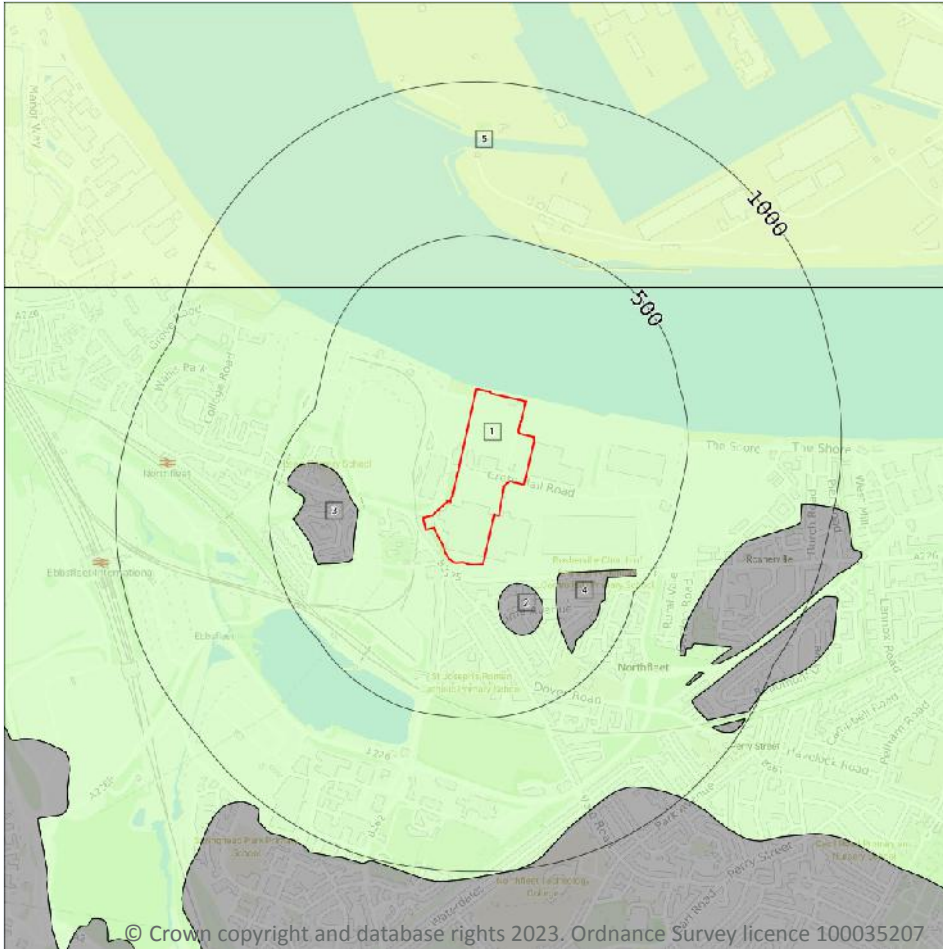
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (10k)
- Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

5

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 177](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	SECK-CHLK	Seaford Chalk Formation - Chalk	Santonian Age - Coniacian Age
2	108m S	TAB-SANDU	Thanet Sand Formation - Sand	Thanetian Age
3	213m W	TAB-SANDU	Thanet Sand Formation - Sand	Thanetian Age
4	248m SE	TAB-SANDU	Thanet Sand Formation - Sand	Thanetian Age

ID	Location	LEX Code	Description	Rock age
5	330m N	CK-CHLK	Chalk Group - Chalk	Maastrichtian Age - Cenomanian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



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

15.1 50k Availability

Records within 500m

1

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

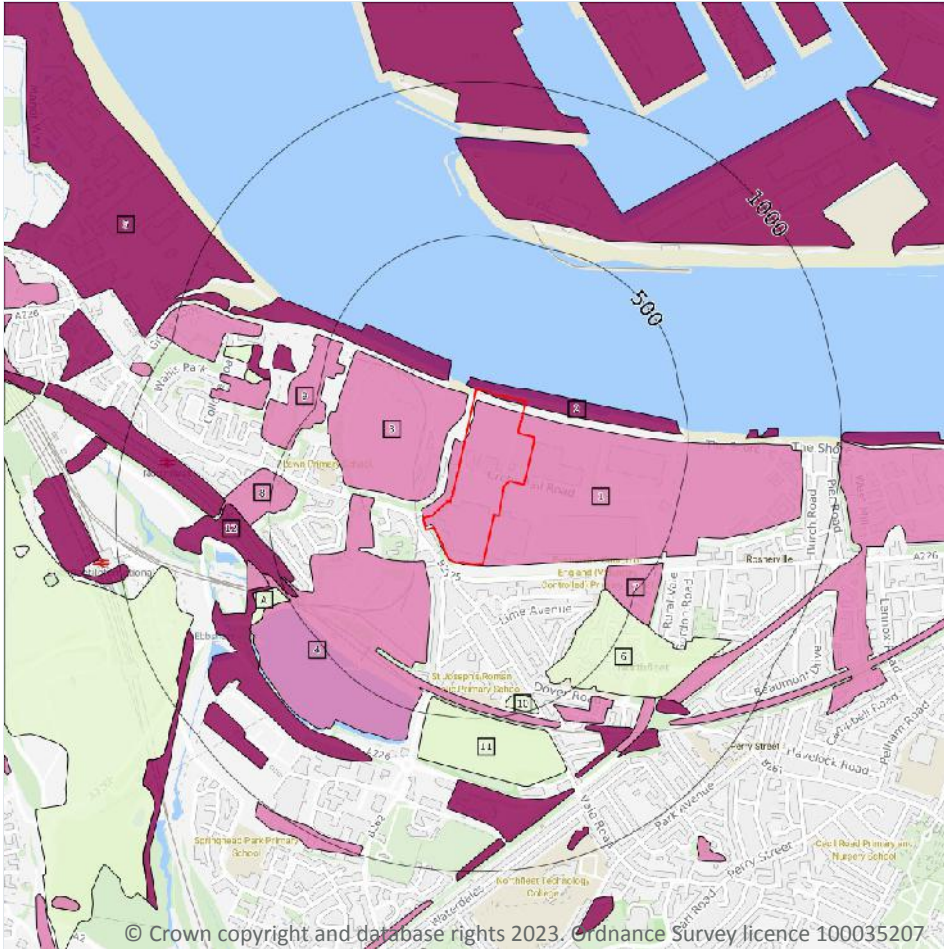
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 179](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW271_dartford_v4

This data is sourced from the British Geological Survey.



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



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

15.2 Artificial and made ground (50k)

Records within 500m

13

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 180](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
2	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	20m N	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
4	75m SW	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID



ID	Location	LEX Code	Description	Rock description
5	94m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
6	371m SE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
7	381m SE	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
8	419m W	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
9	432m NW	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
10	440m S	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
11	441m S	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
12	457m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
A	498m SW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

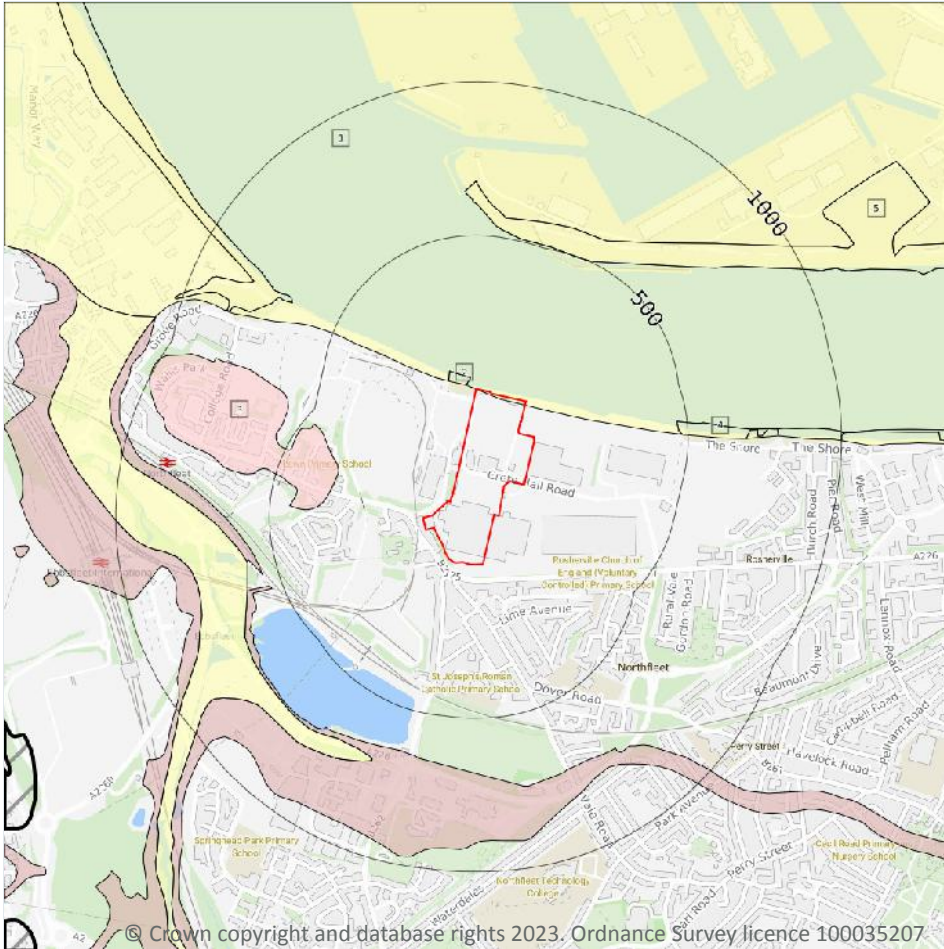
Records within 50m	1
---------------------------	----------

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

5

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 182](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSP	ALLUVIUM	CLAY, SILT, SAND AND PEAT
2	34m N	TRD-XCZ	TIDAL RIVER OR CREEK DEPOSITS	CLAY AND SILT
3	310m W	BHT-XSV	BOYN HILL GRAVEL MEMBER	SAND AND GRAVEL
4	467m E	TRD-XCZ	TIDAL RIVER OR CREEK DEPOSITS	CLAY AND SILT



ID	Location	LEX Code	Description	Rock description
5	498m 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	2
---------------------------	----------

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Moderate	Very Low
34m N	Intergranular	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.

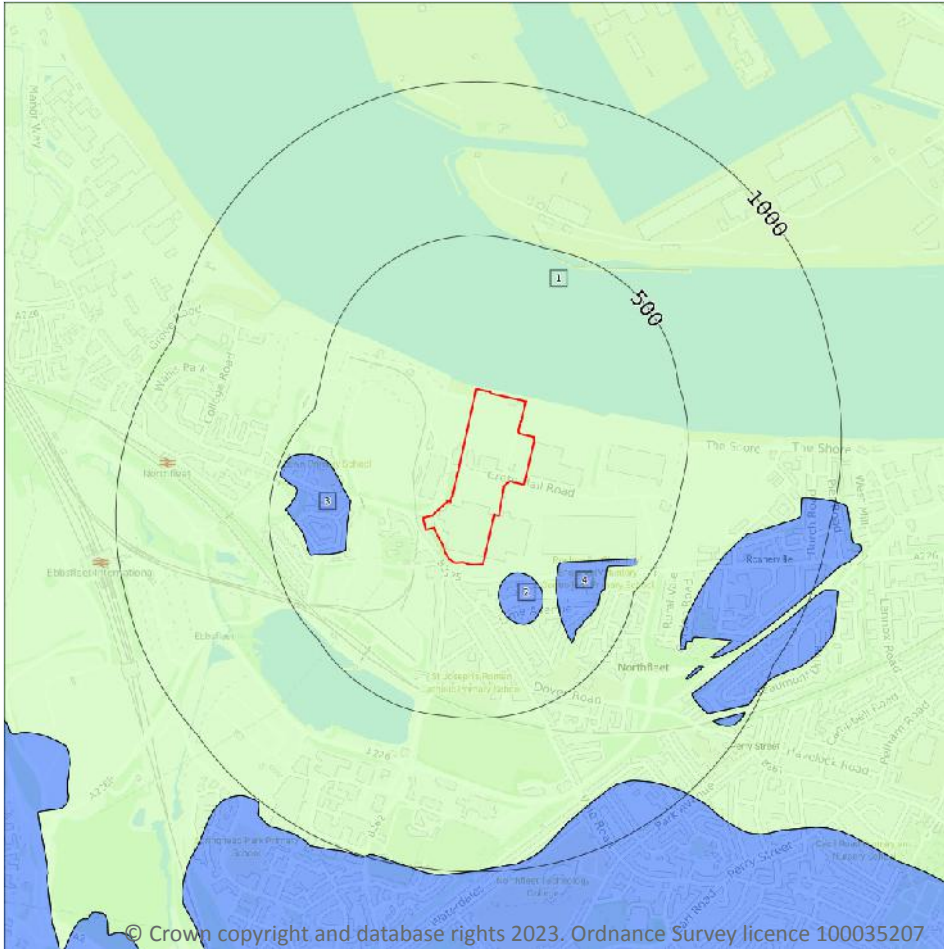
15.7 Landslip permeability (50k)

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

4

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 184](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	LSNCK-CHLK	LEWES NODULAR CHALK FORMATION, SEAFORD CHALK FORMATION AND NEWHAVEN CHALK FORMATION (UNDIFFERENTIATED) - CHALK	TURONIAN
2	85m S	TAB-S	THANET FORMATION - SAND	THANETIAN
3	240m W	TAB-S	THANET FORMATION - SAND	THANETIAN



ID	Location	LEX Code	Description	Rock age
4	241m SE	TAB-S	THANET FORMATION - SAND	THANETIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	1
---------------------------	----------

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

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

This data is sourced from the British Geological Survey.

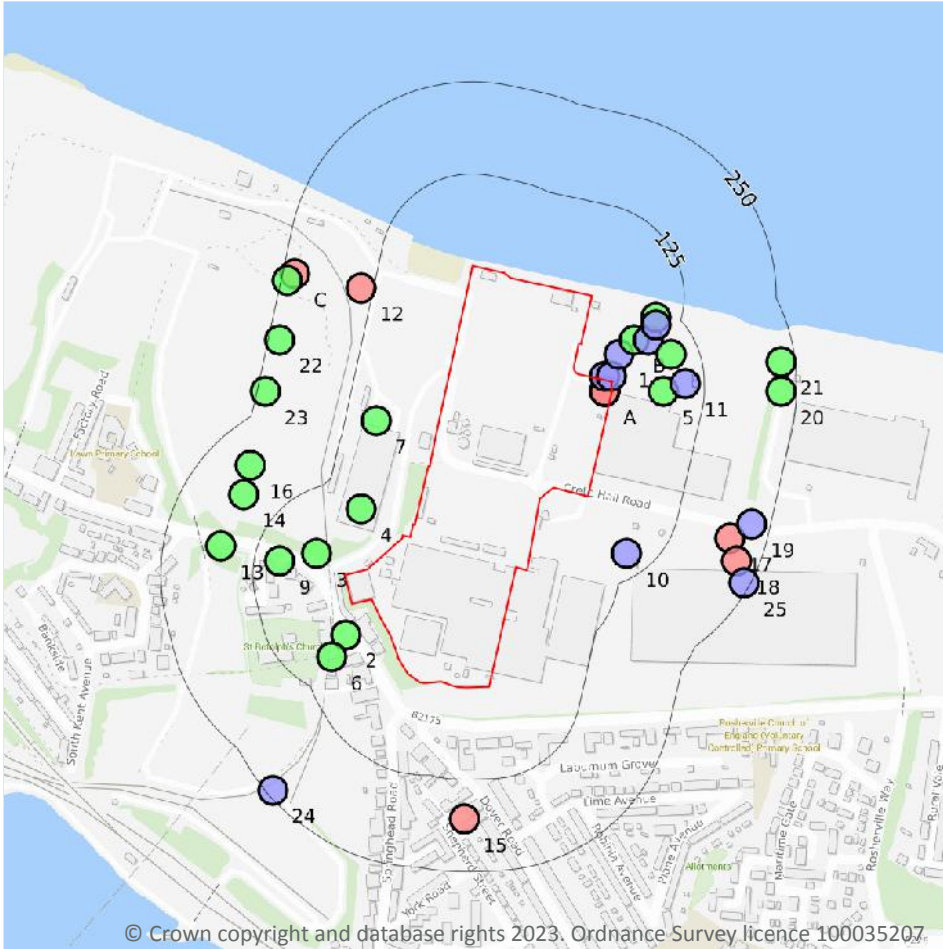
15.10 Bedrock faults and other linear features (50k)

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

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

This data is sourced from the British Geological Survey.

16 Boreholes



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16.1 BGS Boreholes

Records within 250m

37

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 186](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	562800 174500	NORTHFLEET OLD DOCKYARD 2	60.96	N	838297 ↗
A	On site	562800 174500	NORTHFLEET OLD DOCKYARD 1	91.44	N	838296 ↗
A	On site	562800 174500	NORTHFLEET OLD DOCKYARD 4	45.72	N	838299 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	562800 174500	NORTHFLEET OLD DOCKYARD 3	78.18	N	838298 ↗
A	5m NE	562800 174520	CRETE HALL RD NORTHFLEET BH11	10.0	N	838738 ↗
A	7m NE	562810 174520	CRETE HALL RD NORTHFLEET BH10	3.0	N	838737 ↗
1	38m NE	562820 174550	CRETE HALL RD NORTHFLEET BH9	10.0	N	838736 ↗
2	42m SW	562450 174170	NORTHFLEET WORKS T7	28.65	N	838662 ↗
3	48m SW	562410 174280	NORTHFLEET WORKS T5	26.52	N	838660 ↗
B	64m NE	562840 174570	CRETE HALL RD NORTHFLEET BH8	20.0	N	838735 ↗
4	67m W	562470 174340	NORTHFLEET WORKS 25	18.59	N	838655 ↗
5	69m NE	562880 174500	CRETE HALL RD NORTHFLEET BH3	20.0	N	838730 ↗
B	76m NE	562860 174570	CRETE HALL RD NORTHFLEET BH5	10.0	N	838732 ↗
6	77m SW	562430 174140	NORTHFLEET WORKS T8	27.88	N	838663 ↗
7	84m NW	562490 174460	NORTHFLEET WORKS 5	17.52	N	838635 ↗
8	88m NE	562890 174550	CRETE HALL RD NORTHFLEET BH4	15.0	N	838731 ↗
9	90m W	562360 174270	NORTHFLEET WORKS T6	26.67	N	838661 ↗
B	91m NE	562870 174600	CRETE HALL RD NORTHFLEET BH7	20.0	N	838734 ↗
10	93m SE	562830 174280	NORTHFLEET POWER STATION	1.52	N	838854 ↗
B	93m NE	562870 174590	CRETE HALL RD NORTHFLEET BH6	10.0	N	838733 ↗
11	100m NE	562910 174510	CRETE HALL RD NORTHFLEET BH1	1.0	N	838729 ↗
12	142m NW	562470 174640	NORTHFLEET WORKS 24	36.58	N	838654 ↗
13	173m W	562280 174290	NORTHFLEET WORKS T4	26.82	N	838659 ↗
14	176m W	562310 174360	NORTHFLEET WORKS 1	17.83	N	838631 ↗
15	178m S	562610 173920	BREWERY TAP DOVER ROAD NORTHFLEET	106.68	N	838344 ↗
16	197m W	562320 174400	NORTHFLEET WORKS 2	15.85	N	838632 ↗
17	201m E	562970 174300	BOWATER PAPER MILLS GRAVESEND	76.2	N	838301 ↗
18	220m E	562980 174270	BOWATERS, NORTHFLEET	45.72	N	838826 ↗
19	225m E	563000 174320	NORTHFLEET POWER STATION	6.09	N	838832 ↗
20	229m E	563040 174500	BRITISH ELECTRICITY AUTH NORTHFLEET	13.71	N	838368 ↗
21	231m E	563040 174540	NORTHFLEET POWER STATION	12.19	N	838805 ↗

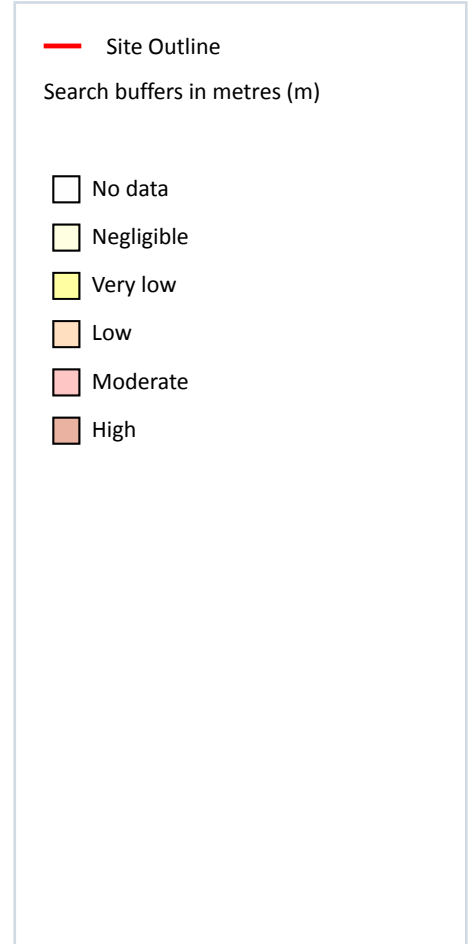
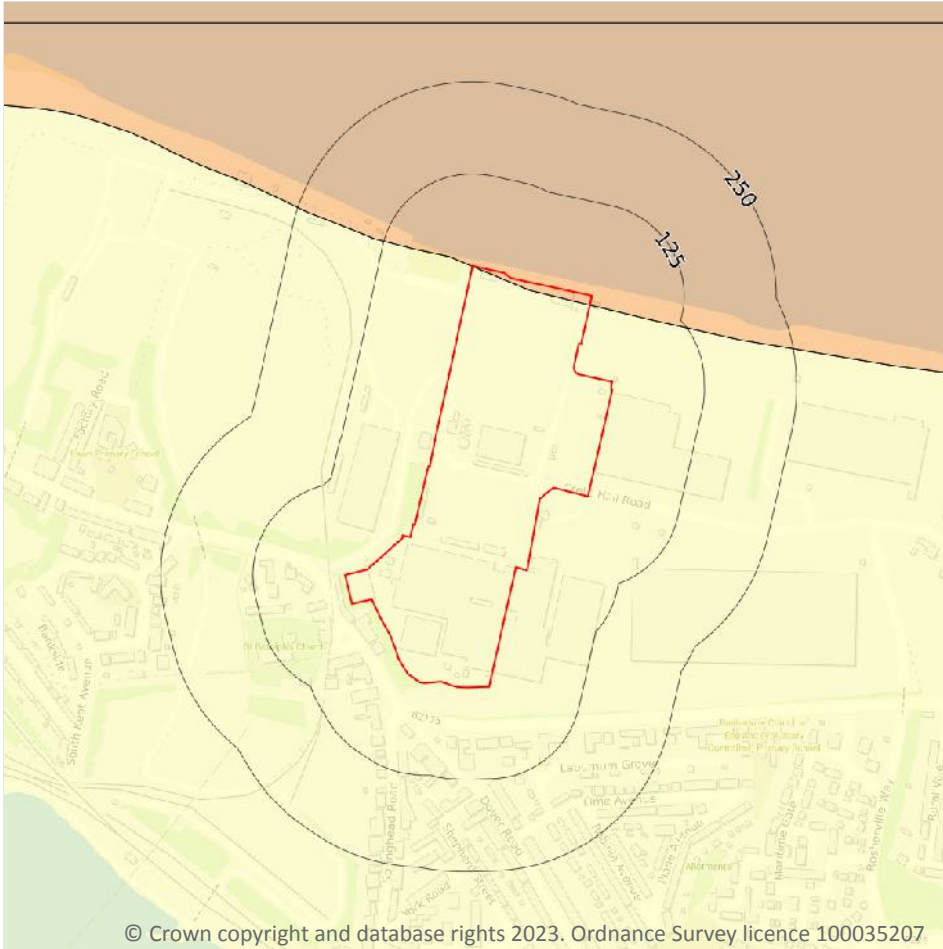


ID	Location	Grid reference	Name	Length	Confidential	Web link
C	234m NW	562380 174660	NORTHFLEET WORKS 23	36.58	N	838653 ↗
22	234m NW	562360 174570	NORTHFLEET WORKS 4	19.35	N	838634 ↗
23	239m W	562340 174500	NORTHFLEET WORKS 3	21.34	N	838633 ↗
C	242m NW	562370 174650	NORTHFLEET WORKS 6	19.2	N	838636 ↗
24	242m SW	562350 173959	CHANNEL TUNNEL RAIL LINK TP7835	4.0	N	15616248 ↗
25	242m SE	562990 174240	NORTHFLEET POWER STATION	4.87	N	838833 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

2

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

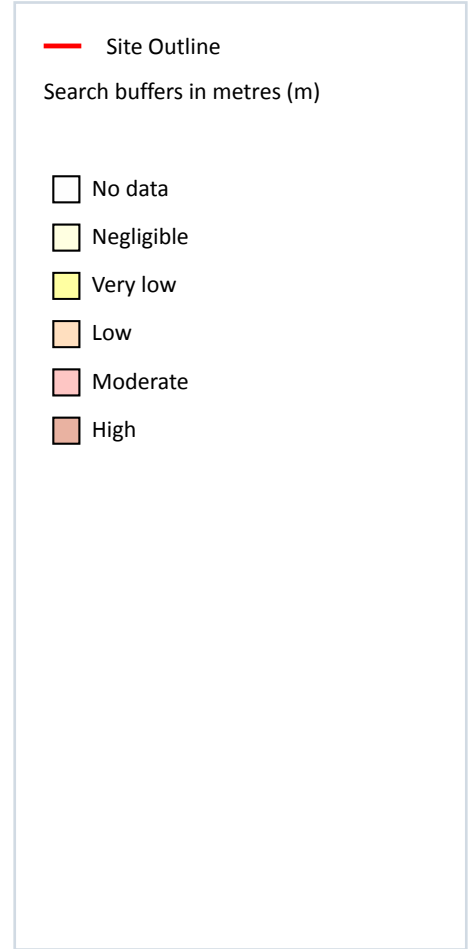
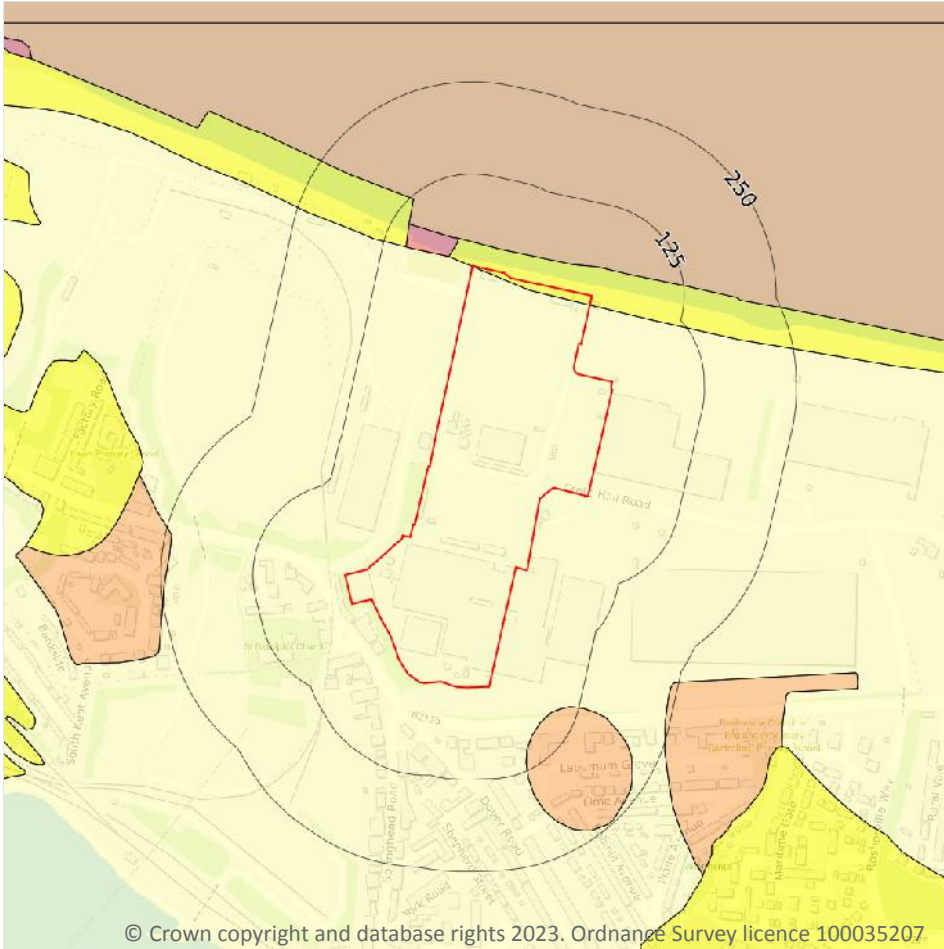
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 189](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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17.2 Running sands

Records within 50m

4

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 190](#) >

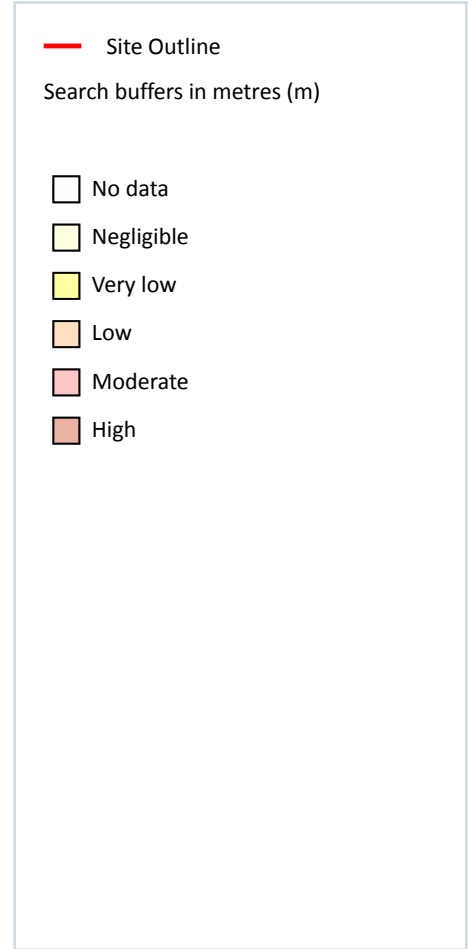
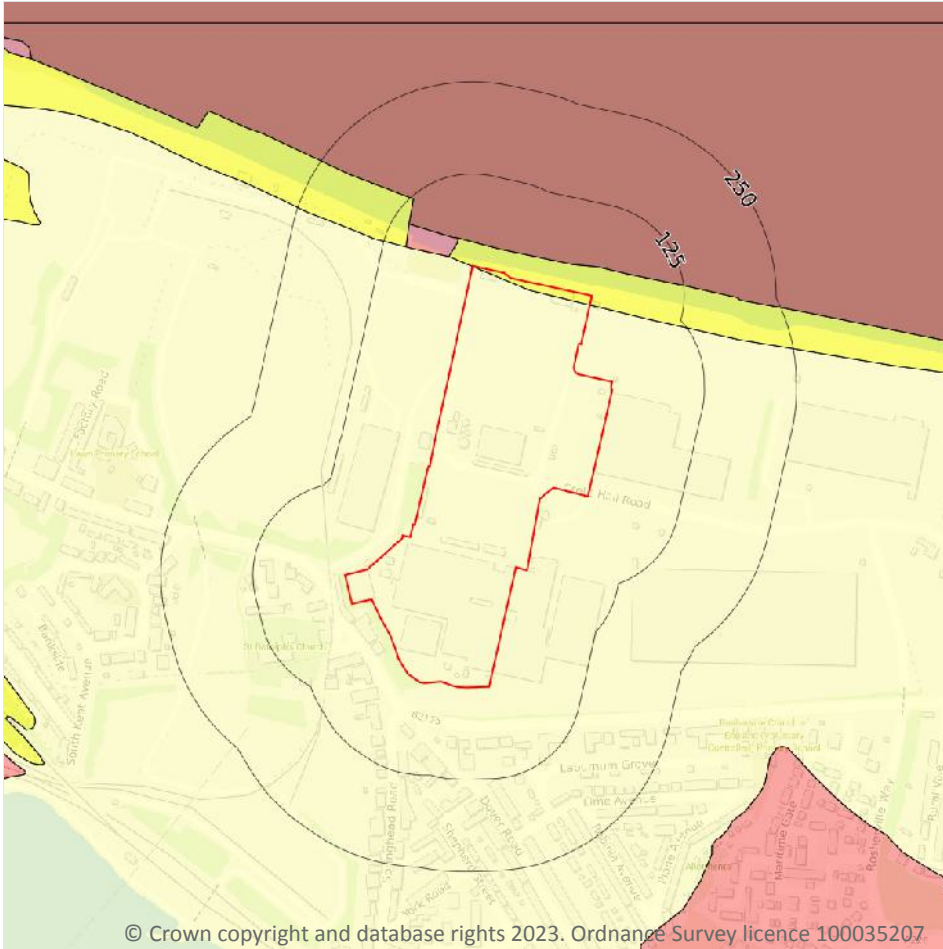
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

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.
30m N	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
34m N	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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17.3 Compressible deposits

Records within 50m

4

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 192](#) >

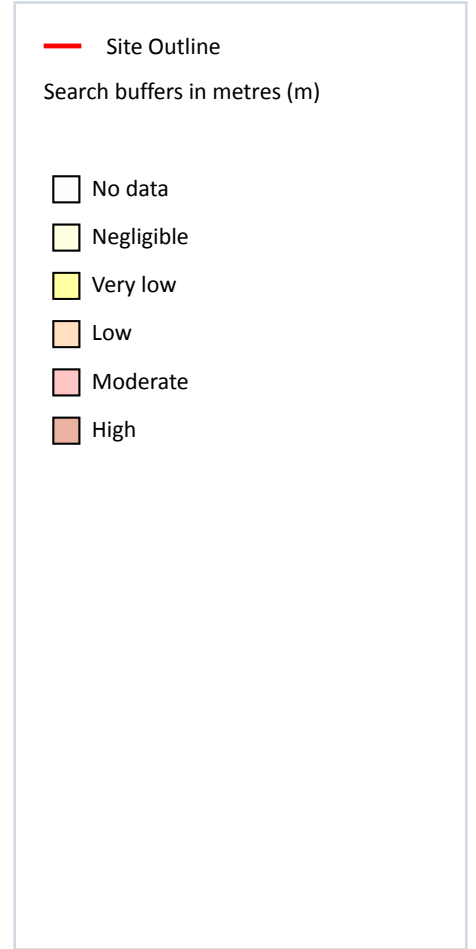
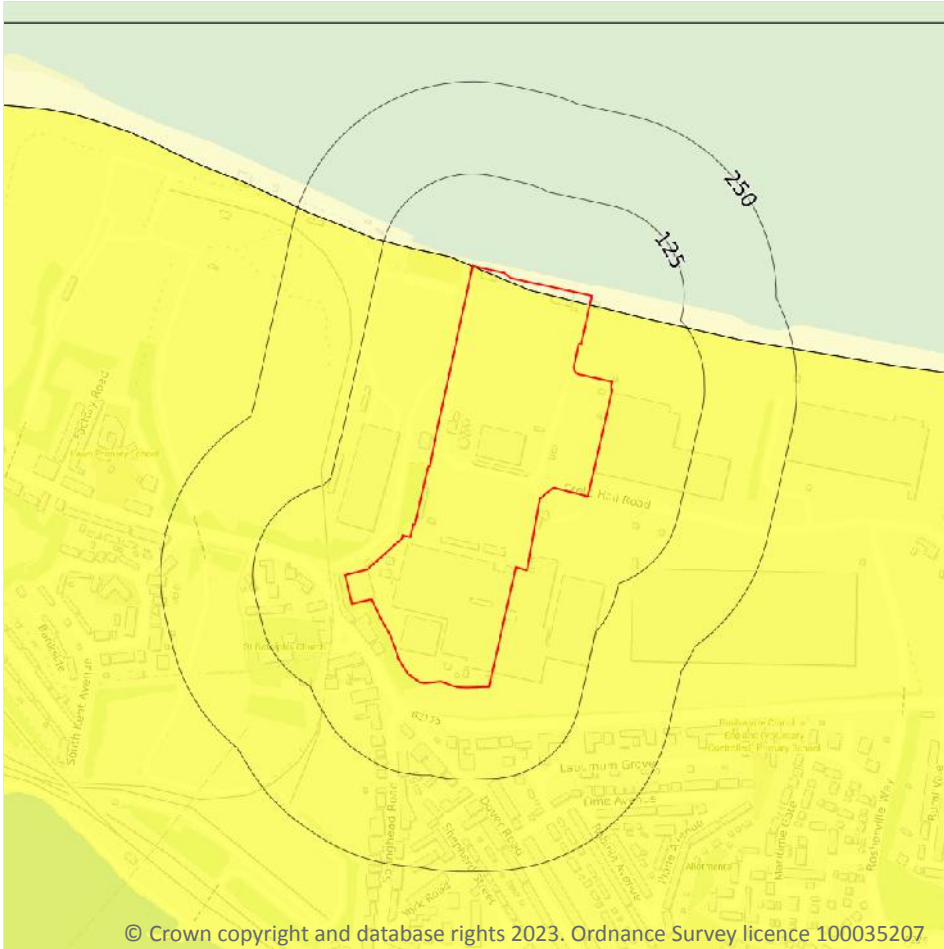
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

Location	Hazard rating	Details
30m N	High	Highly compressible strata present. Significant constraint on land use depending on thickness.
34m N	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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17.4 Collapsible deposits

Records within 50m

2

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

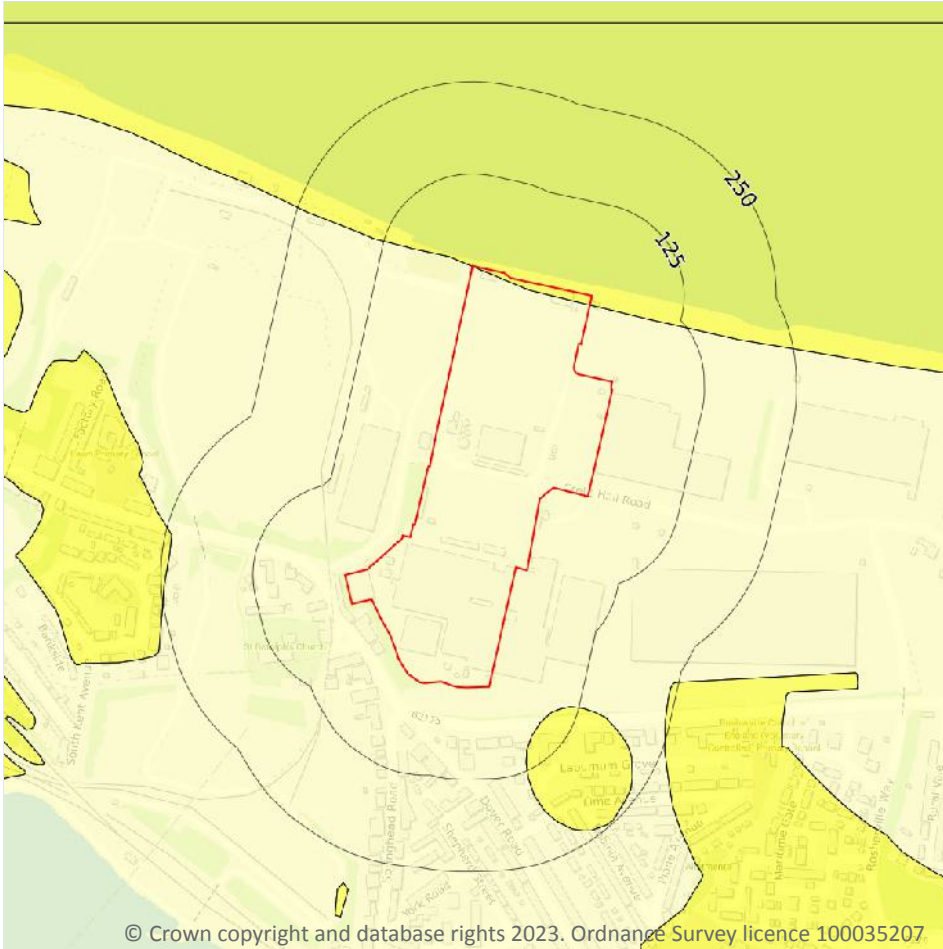
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 194](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



— Site Outline
Search buffers in metres (m)

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

17.5 Landslides

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Landslides map on [page 195 >](#)

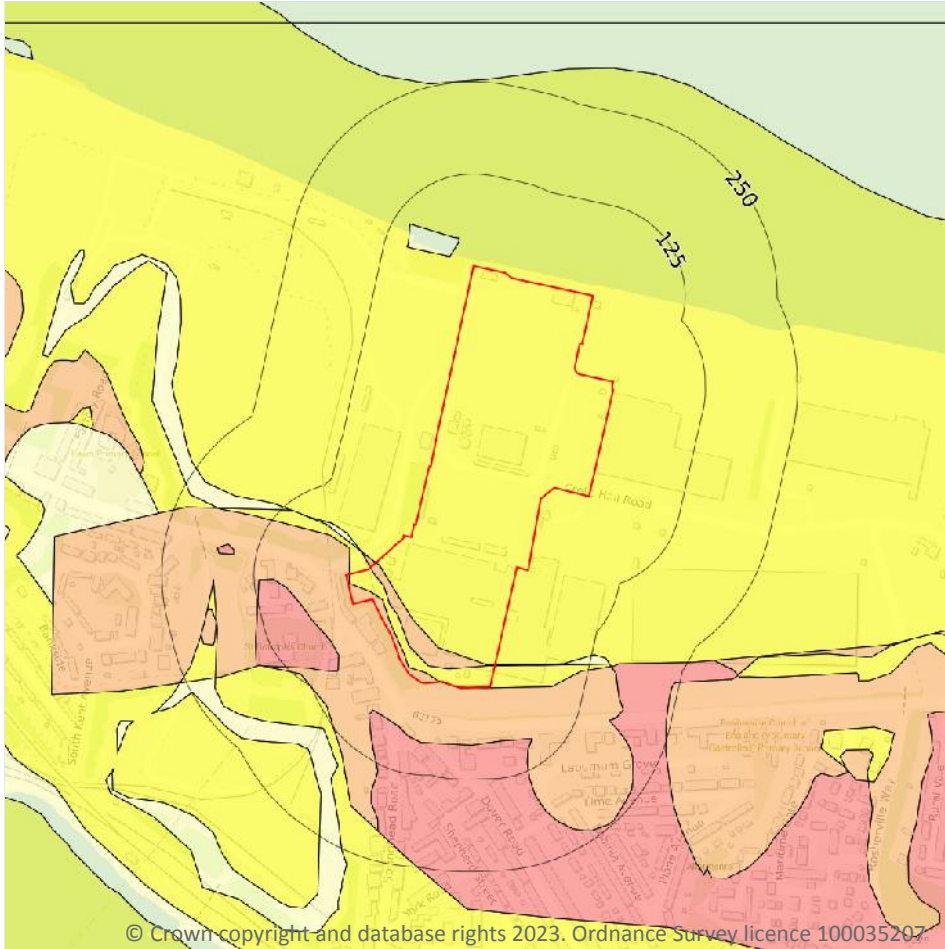
Location	Hazard rating	Details
On site	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

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

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17.6 Ground dissolution of soluble rocks

Records within 50m

5

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 197 >](#)

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

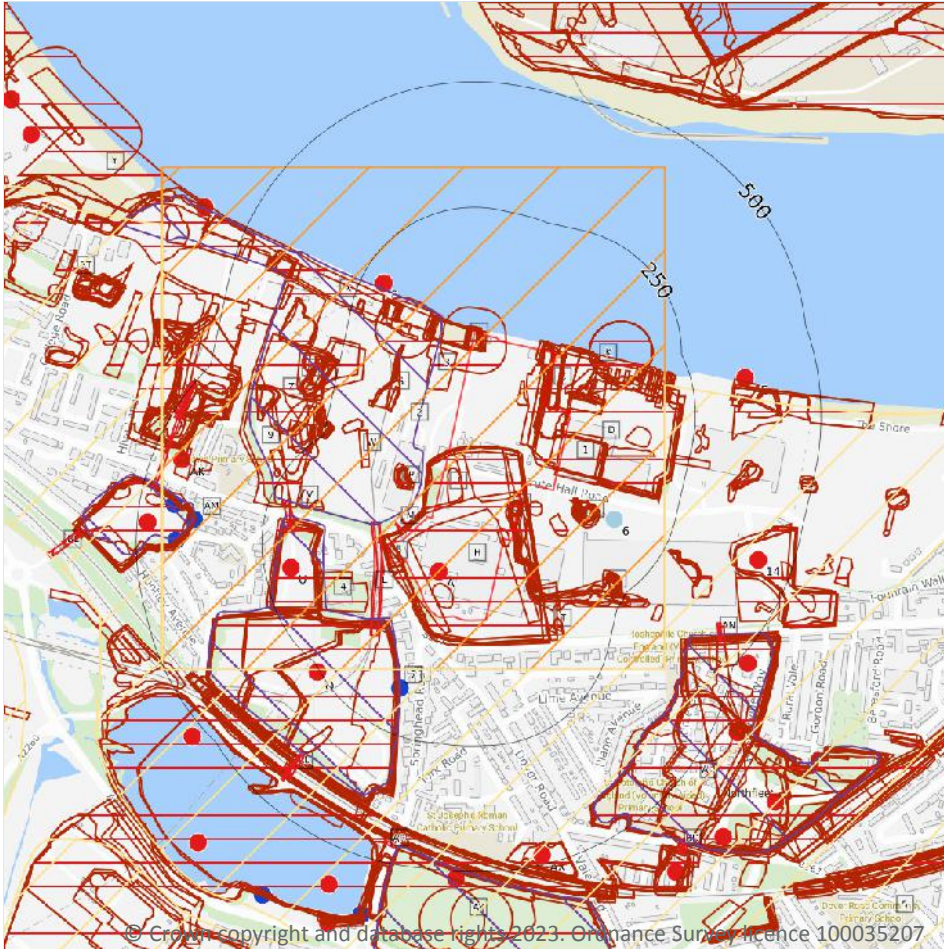


Location	Hazard rating	Details
On site	Low	Soluble rocks are present within the ground. Some dissolution features may be present. Potential for difficult ground conditions are at a level where they may be considered, localised subsidence need not be considered except in exceptional circumstances.
17m S	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.
26m SW	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.
34m N	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

5

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

Features are displayed on the Mining, ground workings and natural cavities map on [page 199](#) >

ID	Location	Details	Source
7	161m S	Type: Solution Pipe x2 Superficial Geology: - Bedrock Geology: Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation	Simple Bibliography: Stantec UK Ltd (RLE Channel Tunnel Rail Link Geotechnical Feedback Report, November 2001) Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
AM	388m W	Type: Gulls/Fissures due to Cambering x1 Superficial Geology: Boyn Hill Gravel Bedrock Geology: Thanet Formation (Sands), Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation	Simple Bibliography: Stantec UK Ltd (RLE Channel Tunnel Rail Link Geotechnical Feedback Report, November 2001) Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
AM	388m W	Type: Solution Pipe x1 Superficial Geology: Boyn Hill Gravel Bedrock Geology: Thanet Formation (Sands), Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation	Simple Bibliography: Stantec UK Ltd (RLE Channel Tunnel Rail Link Geotechnical Feedback Report, November 2001) Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
AM	420m W	Type: Gulls/Fissures due to Cambering x1 Superficial Geology: - Bedrock Geology: Thanet Formation (Sands), Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation	Simple Bibliography: Stantec UK Ltd (RLE Channel Tunnel Rail Link Geotechnical Feedback Report, November 2001) Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely
AM	430m W	Type: Solution Pipe x1 Superficial Geology: Boyn Hill Gravel Bedrock Geology: Thanet Formation (Sands), Lewes Nodular Chalk Formation, Seaford Chalk Formation and Newhaven Chalk Formation	Simple Bibliography: Stantec UK Ltd (RLE Channel Tunnel Rail Link Geotechnical Feedback Report, November 2001) Full Bibliography: - Confidentiality: Data source can be revealed, data can be used freely

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

10

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 199 >](#)



ID	Location	Details	Description
A	On site	Name: The Hill Brick Works Address: Northfleet, GRAVESEND, Kent Commodity: Chalk 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
U	197m SW	Name: Northfleet Chalk Pit Address: Northfleet, GRAVESEND, Kent Commodity: Chalk 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
8	206m NW	Name: 42 Wharf Address: NORTHFLEET, Kent Commodity: Mineral Status: Inactive	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored Status description: Site which, at date of entry, is not extracting minerals, but which still has a valid planning permission to do so, and can restart at any time. May be considered Mothballed by operator. May be considered to have Active or Dormant planning permission
Q	254m SW	Name: Northfleet Chalk Pit Address: Northfleet, GRAVESEND, Kent Commodity: Chalk 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
AE	355m E	Name: Red Lion Wharf Address: NORTHFLEET, Kent Commodity: Crushed Rock Status: Active	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored Status description: Site which is actively extracting mineral products, or in the case of wharfs and rail depots, is actively handing minerals
AE	355m E	Name: Red Lion Wharf Address: NORTHFLEET, Kent Commodity: Marine Sand & Gravel Status: Active	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored Status description: Site which is actively extracting mineral products, or in the case of wharfs and rail depots, is actively handing minerals
14	430m E	Name: London Road Whiting Works Address: Northfleet, GRAVESEND, Kent Commodity: Chalk 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



ID	Location	Details	Description
AK	441m W	Name: Lower Fleet Brick Field Address: Lower Northfleet, NORTHFLEET, Kent Commodity: Clay & Shale 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
AM	478m W	Name: High Street Quarry Address: NORTHFLEET, Kent Commodity: Chalk 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
AX	481m S	Name: Northfleet Chalk Pit Address: Northfleet, GRAVESEND, Kent Commodity: Chalk 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	217
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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 199](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Unspecified Heap	1916	1:10560
A	On site	Unspecified Heap	1865	1:10560
B	On site	Unspecified Pit	1977	1:10000
B	On site	Unspecified Pit	1971	1:10000
B	On site	Unspecified Pit	1966	1:10560
B	On site	Unspecified Pit	1955	1:10560
C	On site	Old Dock	1923	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
C	On site	Old Dock	1907	1:10560
C	On site	Old Dock	1895	1:10560
C	On site	Dock Yard	1865	1:10560
C	On site	Unspecified Ground Workings	1955	1:10560
C	On site	Old Dock	1916	1:10560
C	On site	Old Dock	1888	1:10560
C	On site	Old Dock	1898	1:10560
C	On site	Old Dock	1898	1:10560
D	On site	Disused Dock	1923	1:10560
D	On site	Disused Dockyard	1907	1:10560
D	On site	Disused Dockyard	1895	1:10560
D	On site	Disused Dockyard	1895	1:10560
D	On site	Old Dock	1895	1:10560
D	On site	Disused Dockyard	1916	1:10560
D	On site	Disused Dockyard	1888	1:10560
D	On site	Disused Dockyard	1898	1:10560
D	On site	Disused Dockyard	1898	1:10560
E	On site	Unspecified Heap	1938	1:10560
E	On site	Unspecified Heap	1938	1:10560
E	On site	Unspecified Ground Workings	1946	1:10560
E	On site	Unspecified Heap	1895	1:10560
E	On site	Unspecified Heap	1865	1:10560
E	On site	Unspecified Heap	1938	1:10560
E	On site	Unspecified Heap	1955	1:10560
E	On site	Unspecified Ground Workings	1888	1:10560
E	On site	Unspecified Ground Workings	1898	1:10560
E	On site	Unspecified Ground Workings	1898	1:10560
F	On site	Unspecified Wharves	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	On site	Unspecified Wharves	1938	1:10560
F	On site	Unspecified Wharves	1938	1:10560
F	On site	Unspecified Wharves	1938	1:10560
F	On site	Unspecified Wharf	1865	1:10560
F	On site	Unspecified Wharf	1955	1:10560
F	On site	Unspecified Wharves	1888	1:10560
F	On site	Unspecified Wharves	1898	1:10560
F	On site	Unspecified Wharves	1898	1:10560
G	On site	Unspecified Ground Workings	1938	1:10560
G	On site	Unspecified Ground Workings	1938	1:10560
G	On site	Unspecified Ground Workings	1916	1:10560
H	On site	Brick Works	1923	1:10560
H	On site	Brick Works	1923	1:10560
H	On site	Brick Works	1907	1:10560
H	On site	Brick Works	1895	1:10560
H	On site	Brick Works	1895	1:10560
H	On site	Brick Works	1916	1:10560
H	On site	Brick Works	1888	1:10560
H	On site	Brick Works	1898	1:10560
H	On site	Brick Works	1898	1:10560
I	On site	Unspecified Ground Workings	1946	1:10560
I	On site	Unspecified Heap	1955	1:10560
J	On site	Unspecified Ground Workings	1932	1:10560
C	1m NE	Cuttings	1865	1:10560
K	3m NE	Unspecified Wharf	1955	1:10560
F	6m N	Unspecified Wharf	1966	1:10560
F	8m N	Unspecified Wharves	1907	1:10560
F	11m N	Unspecified Wharves	1946	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	12m N	Unspecified Wharves	1932	1:10560
E	23m SE	Unspecified Heap	1865	1:10560
3	26m N	Unspecified Wharves	1923	1:10560
C	27m NE	Unspecified Ground Workings	1907	1:10560
C	27m NE	Unspecified Ground Workings	1895	1:10560
C	28m NE	Unspecified Ground Workings	1888	1:10560
C	31m NE	Unspecified Ground Workings	1898	1:10560
C	31m NE	Unspecified Ground Workings	1898	1:10560
C	32m NE	Unspecified Ground Workings	1895	1:10560
C	36m NE	Unspecified Ground Workings	1916	1:10560
O	42m E	Unspecified Heap	1938	1:10560
O	42m E	Unspecified Heap	1938	1:10560
O	44m E	Unspecified Ground Workings	1938	1:10560
O	44m E	Unspecified Heap	1938	1:10560
O	44m E	Unspecified Heap	1938	1:10560
O	45m E	Unspecified Ground Workings	1946	1:10560
O	45m E	Unspecified Heap	1932	1:10560
O	45m E	Unspecified Heap	1907	1:10560
O	45m E	Unspecified Heap	1895	1:10560
O	47m E	Unspecified Ground Workings	1916	1:10560
O	49m SE	Unspecified Heap	1865	1:10560
O	49m E	Unspecified Ground Workings	1898	1:10560
O	49m E	Unspecified Ground Workings	1898	1:10560
O	50m E	Unspecified Heap	1955	1:10560
P	51m W	Unspecified Heap	1888	1:10560
O	51m E	Unspecified Ground Workings	1895	1:10560
O	51m E	Unspecified Ground Workings	1865	1:10560
O	55m E	Unspecified Heap	1923	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
P	57m W	Unspecified Heap	1898	1:10560
P	57m W	Unspecified Heap	1898	1:10560
P	60m W	Unspecified Heap	1938	1:10560
P	60m W	Unspecified Heap	1938	1:10560
P	60m W	Unspecified Heap	1938	1:10560
P	61m W	Unspecified Heap	1916	1:10560
P	61m W	Unspecified Heap	1946	1:10560
P	61m W	Unspecified Heap	1932	1:10560
P	61m W	Unspecified Heap	1907	1:10560
P	61m W	Unspecified Heap	1895	1:10560
P	61m W	Unspecified Heap	1938	1:10560
P	61m W	Unspecified Heap	1938	1:10560
O	64m E	Unspecified Ground Workings	1888	1:10560
P	64m W	Unspecified Heap	1895	1:10560
J	64m S	Unspecified Heap	1955	1:10560
J	64m S	Unspecified Heap	1946	1:10560
4	65m SW	Grave Yard	1865	1:10560
K	67m NE	Unspecified Wharf	1990	1:10000
K	67m NE	Unspecified Wharf	1977	1:10000
K	67m NE	Unspecified Wharf	1971	1:10000
K	67m NE	Unspecified Wharf	1966	1:10560
J	67m S	Unspecified Heap	1938	1:10560
J	69m S	Unspecified Heap	1938	1:10560
J	69m S	Unspecified Heap	1938	1:10560
J	74m S	Unspecified Heap	1888	1:10560
F	75m N	Unspecified Wharves	1888	1:10560
F	75m N	Unspecified Wharves	1895	1:10560
F	79m N	Unspecified Wharves	1898	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	79m N	Unspecified Wharves	1898	1:10560
F	80m N	Unspecified Wharf	1955	1:10560
Q	82m SW	Chalk Pit	1938	1:10560
Q	83m SW	Unspecified Disused Pit	1990	1:10000
Q	83m SW	Unspecified Disused Pit	1977	1:10000
Q	83m SW	Burial Ground	1977	1:10000
F	83m N	Unspecified Wharves	1938	1:10560
F	83m N	Unspecified Wharves	1938	1:10560
Q	83m SW	Chalk Pit	1916	1:10560
Q	84m SW	Chalk Pit	1898	1:10560
Q	84m SW	Chalk Pit	1898	1:10560
Q	85m SW	Chalk Pit	1907	1:10560
Q	86m SW	Chalk Pit	1938	1:10560
Q	86m SW	Old Chalk Pit	1938	1:10560
Q	86m SW	Burial Ground	1966	1:10560
Q	86m SW	Burial Ground	1955	1:10560
Q	87m SW	Chalk Pit	1923	1:10560
Q	88m SW	Chalk Pit	1895	1:10560
D	88m E	Unspecified Pit	1865	1:10560
Q	89m SW	Old Chalk Pit	1946	1:10560
Q	92m SW	Chalk Pit	1895	1:10560
Q	93m SW	Old Chalk Pit	1932	1:10560
Q	99m SW	Chalk Pit	1888	1:10560
R	101m SE	Unspecified Heap	1955	1:10560
F	108m NW	Unspecified Wharves	1888	1:10560
D	118m E	Unspecified Pit	1865	1:10560
S	120m NW	Unspecified Ground Workings	1966	1:10560
S	120m NW	Unspecified Ground Workings	1955	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
S	122m NW	Unspecified Ground Workings	1932	1:10560
S	123m NW	Unspecified Heap	1938	1:10560
S	123m NW	Unspecified Heap	1938	1:10560
F	126m NW	Unspecified Wharves	1938	1:10560
F	126m NW	Unspecified Wharves	1938	1:10560
T	128m SE	Unspecified Heap	1946	1:10560
U	132m W	Old Chalk Pit	1888	1:10560
U	132m W	Old Chalk Pit	1895	1:10560
S	133m NW	Unspecified Ground Workings	1938	1:10560
S	133m NW	Unspecified Ground Workings	1938	1:10560
R	133m SE	Unspecified Ground Workings	1888	1:10560
T	134m SE	Unspecified Heap	1955	1:10560
U	135m W	Unspecified Disused Pit	1990	1:10000
U	135m W	Unspecified Disused Pit	1977	1:10000
U	135m W	Old Chalk Pit	1898	1:10560
U	135m W	Old Chalk Pit	1898	1:10560
U	137m W	Unspecified Pit	1923	1:10560
U	138m W	Unspecified Pit	1966	1:10560
U	138m W	Unspecified Pit	1955	1:10560
U	144m W	Old Chalk Pit	1895	1:10560
V	145m W	Unspecified Ground Workings	1865	1:10560
W	148m W	Unspecified Pit	1966	1:10560
W	148m W	Unspecified Pit	1955	1:10560
F	155m NW	Unspecified Wharves	1898	1:10560
F	155m NW	Unspecified Wharves	1898	1:10560
R	156m SE	Unspecified Ground Workings	1895	1:10560
F	159m NW	Unspecified Wharves	1932	1:10560
R	161m SE	Unspecified Ground Workings	1932	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	164m NW	Unspecified Wharf	1865	1:10560
W	179m W	Unspecified Heaps	1966	1:10560
W	179m W	Unspecified Heaps	1955	1:10560
X	184m NW	Unspecified Wharves	1946	1:10560
Y	189m NW	Unspecified Wharf	1895	1:10560
Z	196m W	Brick Works	1895	1:10560
R	197m SE	Unspecified Pit	1865	1:10560
N	199m NW	Brick Works	1895	1:10560
R	199m SE	Unspecified Heap	1938	1:10560
R	199m SE	Unspecified Heap	1938	1:10560
R	199m SE	Unspecified Heap	1938	1:10560
R	203m SE	Unspecified Ground Workings	1898	1:10560
R	203m SE	Unspecified Ground Workings	1898	1:10560
R	203m SE	Unspecified Heap	1946	1:10560
R	203m SE	Unspecified Heap	1895	1:10560
R	206m SE	Unspecified Heap	1907	1:10560
V	207m W	Unspecified Ground Workings	1865	1:10560
R	210m SE	Unspecified Heap	1923	1:10560
9	211m W	Unspecified Pit	1895	1:10560
Z	217m W	Gravel Pit	1966	1:10560
Z	217m W	Refuse Heap	1955	1:10560
X	227m NW	Unspecified Wharves	1938	1:10560
X	227m NW	Unspecified Wharves	1938	1:10560
X	228m NW	Unspecified Wharves	1932	1:10560
Z	234m W	Unspecified Heap	1907	1:10560
Z	234m W	Unspecified Heap	1895	1:10560
Z	237m W	Unspecified Heap	1898	1:10560
Z	237m W	Unspecified Heap	1898	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
Z	237m W	Unspecified Heap	1916	1:10560
Z	239m W	Unspecified Heap	1938	1:10560
Z	239m W	Unspecified Heap	1938	1:10560
Z	240m W	Unspecified Heap	1938	1:10560
Z	240m W	Refuse Heap	1907	1:10560
Z	242m W	Unspecified Heap	1946	1:10560
Z	242m W	Unspecified Ground Workings	1932	1:10560
Z	243m W	Unspecified Ground Workings	1938	1:10560
Z	243m W	Unspecified Ground Workings	1938	1:10560
Z	245m W	Unspecified Heap	1895	1:10560
Z	246m W	Refuse Heap	1895	1:10560
Z	246m W	Unspecified Heap	1946	1:10560
Z	249m W	Refuse Heap	1898	1:10560
Z	249m W	Refuse Heap	1898	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

25

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

Features are displayed on the Mining, ground workings and natural cavities map on [page 199](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
L	13m SW	Tunnel	1971	1:10000
L	13m SW	Tunnel	1990	1:10000
M	21m SW	Tunnels	1865	1:10560
M	22m SW	Tunnels	1865	1:10560
V	182m W	Tunnel	1971	1:10000
AL	383m SW	Tunnel	1990	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
AL	383m SW	Tunnel	1977	1:10000
AL	387m SW	Tunnel	1946	1:10560
AL	389m SW	Tunnel	1932	1:10560
AN	421m SE	Tunnel	1932	1:10560
AN	422m SE	Tunnel	1946	1:10560
AN	428m SE	Tunnel	1923	1:10560
AR	457m S	Tunnel	1946	1:10560
AK	472m W	Tunnel	1923	1:10560
AK	481m W	Tunnel	1946	1:10560
AK	483m W	Tunnel	1932	1:10560
AK	483m W	Tunnel	1907	1:10560
AK	487m W	Tunnel	1938	1:10560
BD	586m SE	Tunnel	1938	1:10560
BD	593m SE	Tunnel	1907	1:10560
BD	597m SE	Tunnel	1923	1:10560
BL	609m W	Tunnel	1971	1:10000
BL	609m W	Tunnel	1990	1:10000
BL	609m W	Tunnel	1977	1:10000
BT	792m NW	Tunnel	1923	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

5

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

Features are displayed on the Mining, ground workings and natural cavities map on [page 199 >](#)



ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
N	37m W	Northfleet	Cement	Surface mineral working	Valid	Not available
Q	76m SW	Southfleet	Chalk	Surface mineral working	Valid	Not available
AH	385m SE	Southfleet	Chalk	Surface mineral working	Valid	Not available
AM	390m W	Southfleet	Chalk	Surface mineral working	Valid	Not available
AY	463m S	Southfleet	Chalk	Surface mineral working	Valid	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

2

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

Features are displayed on the Mining, ground workings and natural cavities map on [page 199 >](#)

ID	Location	Name	Commodity	Class	Likelihood
2	On site	Not available	Chalk	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
5	98m S	Not available	Chalk	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

4

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

Features are displayed on the Mining, ground workings and natural cavities map on [page 199 >](#)



ID	Location	Mine Address	Mineral	Data source	Publisher
E	On site	Northfleet, Kent	Chalk	-	-
M	17m SW	Northfleet, Kent	Chalk	-	-
6	135m E	Northfleet, Kent	Chalk	-	-
AN	412m SE	Northfleet, Kent	Chalk	-	-

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site	0
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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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.13 Clay mining

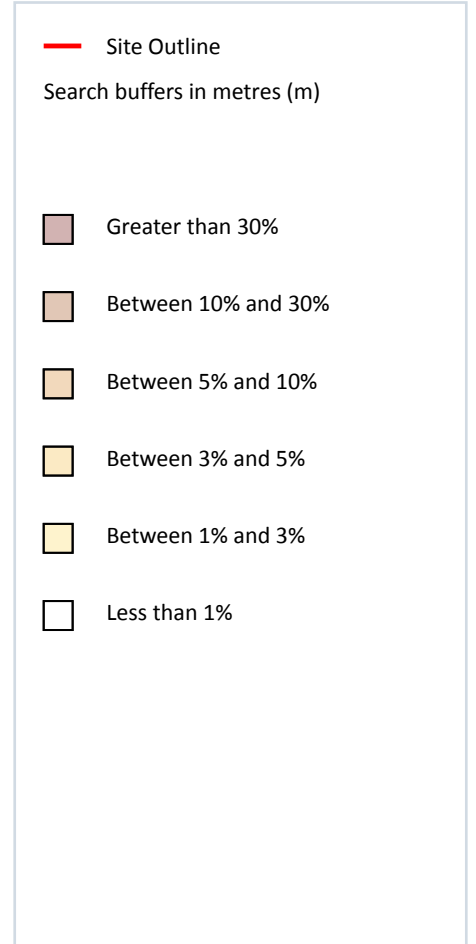
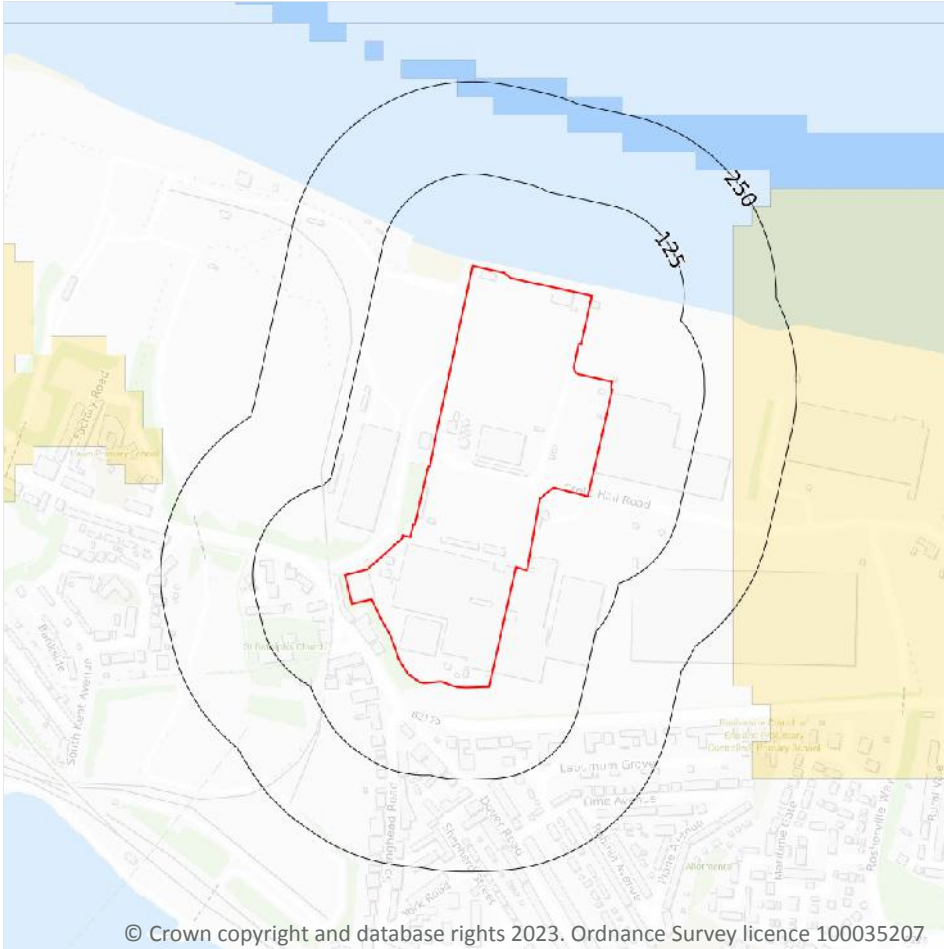
Records on site

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



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 215 >](#)

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

5

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
34m N	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 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

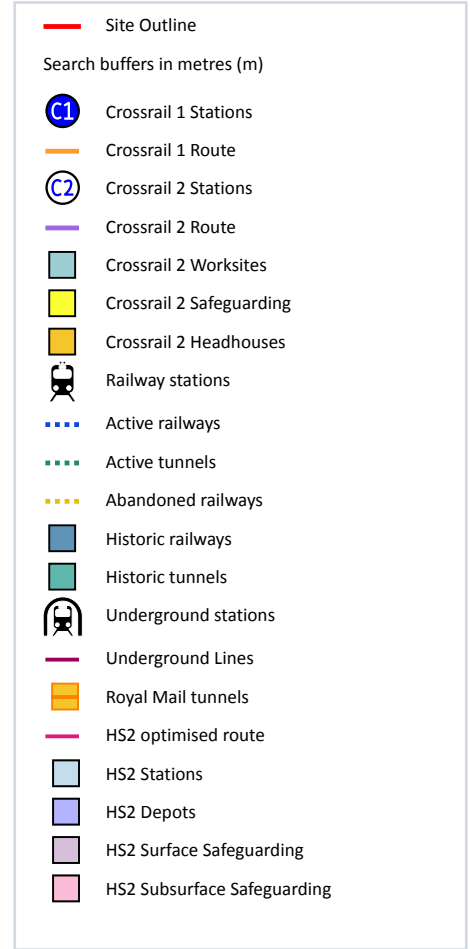
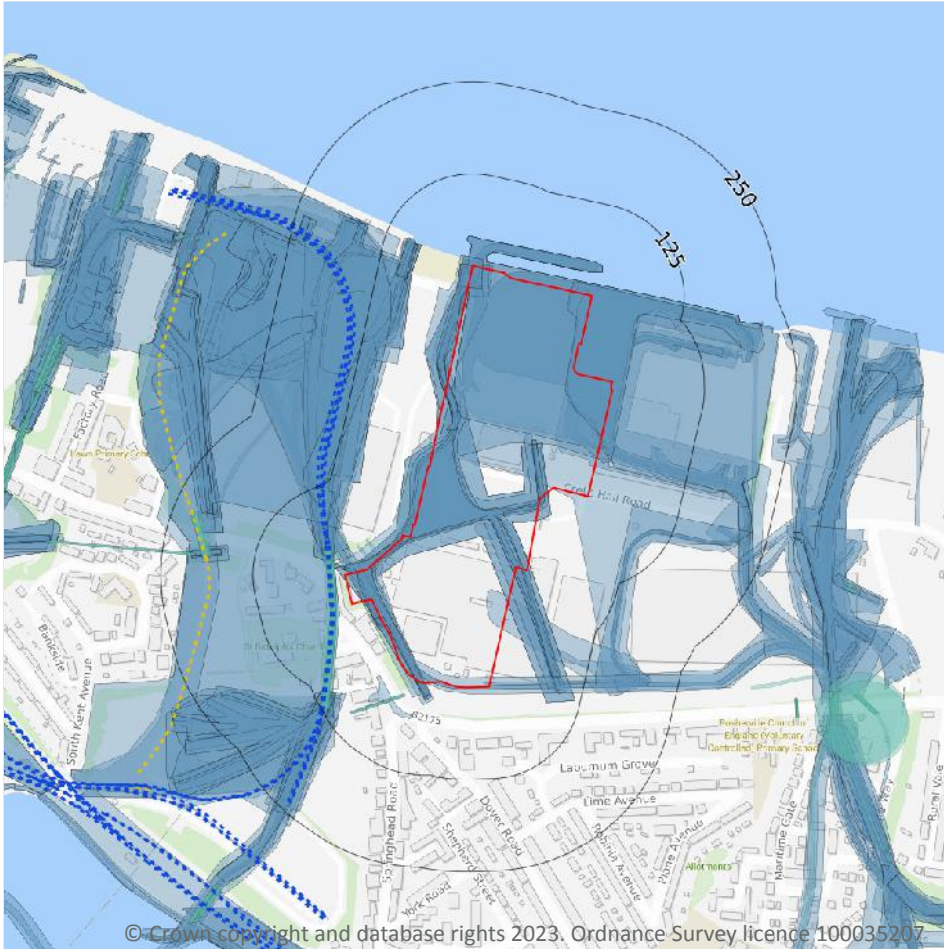
0

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

1

Railway tunnels taken from contemporary Ordnance Survey mapping.

Features are displayed on the Railway infrastructure and projects map on [page 219 >](#)

Location	Type
21m SW	Railway Tunnel

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

132

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 219 >](#)

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1959	1250
On site	Railway Sidings	1960	1250
On site	Railway Sidings	1973	1250
On site	Railway Sidings	1972	1250
On site	Railway Sidings	1952	1250
On site	Railway Sidings	1964	2500
On site	Tramway Sidings	1897	2500
On site	Tramway Sidings	1909	2500
On site	Tramway Sidings	1933	2500
On site	Tramway Sidings	1939	2500
On site	Disused Railway Sidings	1973	1250
On site	Mineral Railway Sidings	1952	1250
On site	Mineral Railway Sidings	1952	2500



Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1898	2500
On site	Railway Sidings	1909	2500
On site	Railway Sidings	1938	10560
On site	Mineral Railway Sidings	1955	10560
On site	Mineral Railway Sidings	1966	10560
On site	Railway Sidings	1865	10560
On site	Railway Sidings	1907	10560
On site	Railway Sidings	1895	10560
On site	Railway Sidings	1971	10000
On site	Railway Sidings	1898	10560
On site	Railway Sidings	1888	10560
On site	Tramway Sidings	1923	10560
On site	Tramway Sidings	1946	10560
On site	Tramway Sidings	1938	10560
On site	Tramway Sidings	1932	10560
On site	Tramway Sidings	1916	10560
On site	Railway Sidings	1977	10000
11m SW	Tunnels	1865	2500
12m SW	Tunnels	1865	2500
13m SW	Tunnel	1971	10000
13m SW	Railway Sidings	1971	10000
13m SW	Tunnel	1990	10000
13m SW	Railway Sidings	1990	10000
14m SW	Tunnel	1952	2500
16m SW	Tunnel	1972	1250
16m SW	Tunnel	1980	1250
16m SW	Tunnel	1994	1250
18m SW	Tunnel	1964	2500



Location	Land Use	Year of mapping	Mapping scale
18m SW	Tunnel	1952	2500
18m SW	Tunnel	1952	1250
21m SW	Tunnels	1865	10560
22m SW	Tramway Sidings	1932	10560
22m SW	Tunnels	1865	10560
23m SW	Railway Sidings	1907	10560
23m SW	Railway Sidings	1895	10560
24m S	Tunnel	1964	2500
25m S	Tunnel	1959	1250
25m S	Tunnel	1973	1250
30m SW	Tramway Sidings	1923	10560
31m SW	Railway Sidings	1888	10560
32m S	Tunnel	1993	1250
33m SW	Tramway Sidings	1946	10560
34m SW	Tramway Sidings	1897	2500
34m SW	Mineral Railway Sidings	1952	2500
36m SW	Railway Sidings	1898	10560
38m SW	Tramway Sidings	1916	10560
47m SW	Railway Sidings	1895	10560
49m SW	Tunnel	1980	1250
49m SW	Tunnel	1994	1250
50m SW	Tunnel	1972	1250
62m E	Railway Sidings	1971	10000
63m W	Railway Sidings	1977	10000
74m S	Tramway Sidings	1865	2500
82m N	Railway Sidings	1932	2500
82m N	Railway Sidings	1939	2500
82m N	Railway Sidings	1898	2500



Location	Land Use	Year of mapping	Mapping scale
83m NW	Railway Sidings	1938	10560
83m N	Railway Sidings	1938	10560
85m SW	Tramway Sidings	1907	10560
87m SE	Railway Sidings	1959	1250
89m W	Mineral Railway Sidings	1964	2500
89m SW	Tramway Sidings	1946	10560
95m SW	Railway Sidings	1895	10560
95m SW	Tramway Sidings	1938	10560
99m SW	Railway Sidings	1888	10560
99m SW	Tramway Sidings	1932	10560
100m SW	Tramway Sidings	1938	10560
101m SW	Tramway Sidings	1938	10560
102m W	Mineral Railway Sidings	1966	10560
102m SW	Railway Sidings	1898	10560
104m NW	Railway Sidings	1972	1250
105m SW	Tramway Sidings	1916	10560
107m SW	Tramway Sidings	1933	2500
107m SW	Tramway Sidings	1939	2500
108m SW	Railway Sidings	1897	2500
108m SW	Tramway Sidings	1909	2500
111m SW	Mineral Railway Sidings	1966	10560
114m SW	Tramway Sidings	1923	10560
114m NW	Railway Sidings	1952	1250
136m NW	Railway Sidings	1898	2500
137m NW	Tunnel	1964	2500
137m NW	Tunnel	1952	2500
138m NW	Tunnel	1952	1250
138m NW	Railway Sidings	1909	2500



Location	Land Use	Year of mapping	Mapping scale
159m W	Railway Sidings	1895	10560
163m W	Railway Sidings	1888	10560
164m NW	Tramway Sidings	1865	10560
170m W	Railway Sidings	1898	10560
182m SW	Mineral Railway Sidings	1952	2500
182m W	Tunnel	1971	10000
184m W	Tunnel	1980	1250
185m W	Tunnel	1972	1250
186m W	Tunnel	1865	2500
186m W	Tunnel	1994	1250
188m W	Tramway Sidings	1865	2500
190m NW	Tramway Sidings	1865	10560
193m W	Railway Sidings	1888	10560
195m NW	Railway Sidings	1898	2500
195m NW	Railway Sidings	1909	2500
196m NE	Railway Sidings	1965	1250
196m NE	Railway Sidings	1952	1250
198m W	Railway Sidings	1898	10560
198m NW	Tramway Sidings	1897	2500
198m NW	Tramway Sidings	1909	2500
200m W	Tramway Sidings	1897	2500
203m W	Railway Sidings	1895	10560
205m W	Tunnel	1952	1250
205m W	Tunnel	1952	2500
206m W	Tunnel	1964	2500
223m E	Railway Sidings	1865	10560
227m E	Railway Sidings	1907	10560
229m W	Railway Sidings	1952	1250



Location	Land Use	Year of mapping	Mapping scale
229m NW	Railway Sidings	1938	10560
229m NW	Railway Sidings	1938	10560
229m NW	Railway Sidings	1916	10560
230m NW	Railway Sidings	1909	2500
231m E	Tramway Sidings	1865	2500
234m E	Railway Sidings	1916	10560
243m E	Tramway Sidings	1909	2500

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

3

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 219 >](#)

Location	Description
184m W	Dismantled
190m W	Dismantled
223m W	Abandoned

This data is sourced from OpenStreetMap.



21.7 Railways

Records within 250m

11

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on [page 219 >](#)

Location	Name	Type
19m SW	Northfleet freight link	rail
22m SW	Northfleet freight link	rail
47m SW	Northfleet freight link	rail
48m SW	Not given	Multi Track
48m SW	Northfleet freight link	rail
54m W	Northfleet freight link	rail
89m W	Northfleet freight link	rail
124m SW	Northfleet freight link	rail
125m SW	Not given	Single Track
125m SW	Not given	Single Track
127m SW	Northfleet freight link	rail

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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