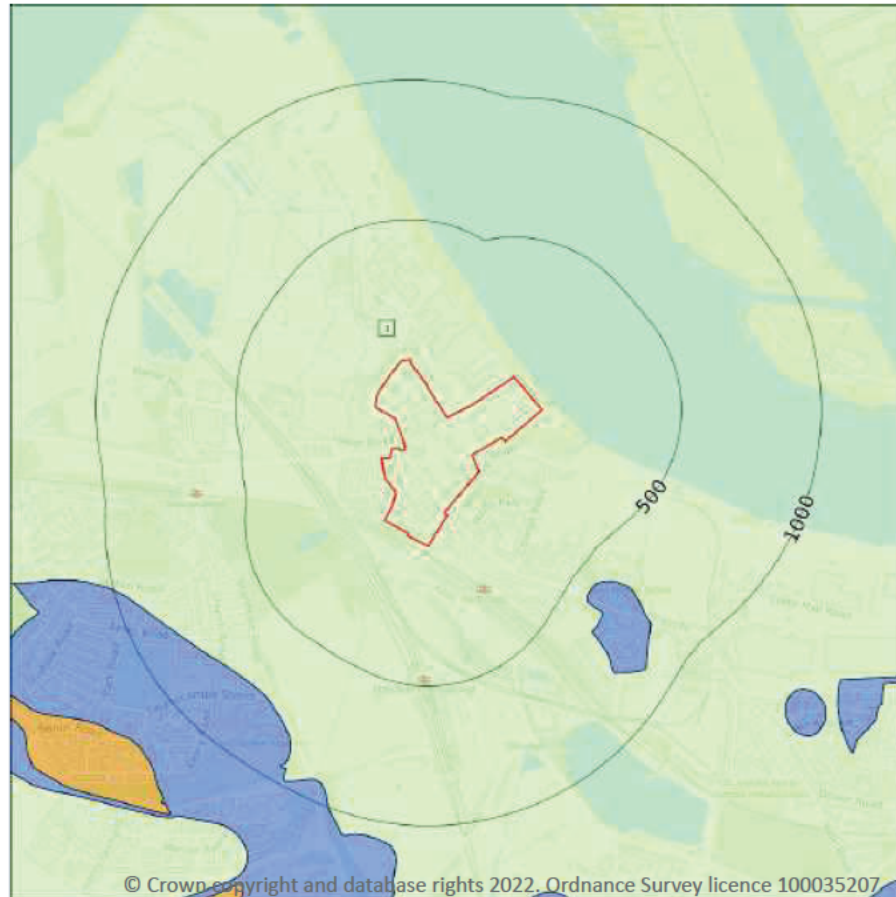


Geology 1:50,000 scale - Bedrock



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

15.8 Bedrock geology (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on page 213

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

This data is sourced from the British Geological Survey.

15.9 Bedrock 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 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
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)

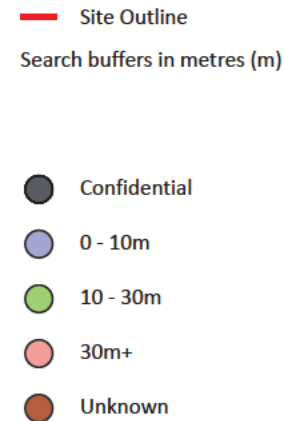
Records within 500m

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



16.1 BGS Boreholes

Records within 250m

90

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 215

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	561500 174900	CHANNEL TUNNEL RAIL LINK G920072	21.34	N	15621446
A	On site	561500 174900	LAWRENCE & WIMBLE CEMENT WORKS NORTHFLEET	21.33	N	838346

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	1m NE	561738 175172	THAMES BARRIER PLA1971	30.0	N	815335
2	4m NE	561758 175154	THAMES BARRIER PLA1972	28.5	N	815336
B	9m NE	561824 175083	THAMES BARRIER PLA1973	15.1	N	815337
B	12m E	561834 175066	THAMES BARRIER PLA1974	19.3	N	815338
B	27m SE	561840 175050	THAMES BARRIER TP 7/38	-	Y	N/A
3	34m SW	561227 175040	CHANNEL TUNNEL RAIL LINK TP7840	4.0	N	15615941
B	34m SE	561850 175050	THAMES BARRIER TP 7/50	-	Y	N/A
4	44m SW	561251 175016	CHANNEL TUNNEL RAIL LINK TP7841	4.0	N	15615942
C	45m SW	561300 174600	NORTHFLEET WEST BARKING 400KV OHL TPZR5	-	Y	N/A
C	45m SW	561300 174600	NORTHFLEET WEST BARKING 400KV OHL BHZR4A	-	Y	N/A
5	52m W	561174 175073	CHANNEL TUNNEL RAIL LINK TP7839	4.0	N	15615939
6	74m NW	561679 175249	THAMES BARRIER PLA1969	29.0	N	815334
7	83m SE	561884 175014	THAMES BARRIER PLA1975	19.8	N	815339
D	94m SW	561189 174612	CHANNEL TUNNEL RAIL LINK SA1860	10.01	N	15621615
E	95m W	561165 174661	CHANNEL TUNNEL RAIL LINK DS7753	5.0	N	15621398
D	108m SW	561174 174608	CHANNEL TUNNEL RAIL LINK SA7842	10.35	N	15621752
E	110m W	561149 174678	CHANNEL TUNNEL RAIL LINK DS7760	5.0	N	15621409
8	115m SE	561910 174996	THAMES BARRIER PLA1976	20.45	N	838786
9	116m NW	561667 175291	THAMES BARRIER PLA1968	20.0	N	815333
10	122m W	561105 175096	CHANNEL TUNNEL RAIL LINK TP7838	4.0	N	15615938
E	122m W	561137 174670	CHANNEL TUNNEL RAIL LINK SA7752	1.7	N	15621748
E	129m W	561133 174648	CHANNEL TUNNEL RAIL LINK TP1875	5.01	N	15616047
E	134m W	561126 174686	CHANNEL TUNNEL RAIL LINK DS7759	5.0	N	15621407
F	139m SW	561257 174509	UNION RAIL NORTHFLEET TP ZR4A	5.5	N	838740
E	147m W	561113 174655	UNION R'WAYS GROUND INV SA1245	-	Y	N/A
E	147m W	561113 174655	CHANNEL TUNNEL RAIL LINK SA1245	10.01	N	15621582
11	148m SE	561941 174981	THAMES BARRIER PLA1977	20.45	N	838787
F	149m SW	561258 174497	UNION RAIL NORTHFLEET ZR4A	30.0	N	838739

ID	Location	Grid reference	Name	Length	Confidential	Web link
12	149m SW	561139 174587	CHANNEL TUNNEL RAIL LINK TP1876	2.31	N	15616048
F	149m SW	561249 174503	UNION R'WAYS GROUND INV SA1247	-	Y	N/A
F	149m SW	561249 174503	CHANNEL TUNNEL RAIL LINK SA1247	15.01	N	15621585
G	150m NW	561650 175320	TOWER WHARF NORTHFLEET D-21	-	Y	N/A
G	150m NW	561639 175314	THAMES BARRIER PLA1967	24.5	N	815332
F	151m SW	561250 174500	CHANNEL TUNNEL RAIL LINK SA1247A	8.51	N	15621588
E	153m W	561109 174703	CHANNEL TUNNEL RAIL LINK TP7960A	3.3	N	15616283
13	153m N	561700 175340	TOWER WHARF NORTHFLEET PHASE 2 H-27-28	-	Y	N/A
E	153m W	561108 174701	CHANNEL TUNNEL RAIL LINK TP7960B	2.8	N	15616284
G	154m NW	561660 175330	TOWER WHARF NORTHFLEET PHASE 2 D-23	-	Y	N/A
E	155m W	561105 174692	CHANNEL TUNNEL RAIL LINK DS7758	5.0	N	15621406
14	155m E	561500 175300	THAMES METAL CO LTD TOWER WORKS	106.37	N	815036
15	160m W	561108 174622	CHANNEL TUNNEL RAIL LINK TP1874	4.31	N	15616046
E	174m W	561091 174719	CHANNEL TUNNEL RAIL LINK TP2604	5.61	N	15616011
E	175m W	561086 174698	CHANNEL TUNNEL RAIL LINK DS7757	5.0	N	15621405
E	176m W	561083 174687	CHANNEL TUNNEL RAIL LINK SA7751	15.85	N	15621738
16	177m W	561056 175147	BOTANY MARSHES BY/6/80	-	Y	N/A
17	180m W	561074 174851	CHANNEL TUNNEL RAIL LINK TP2602	3.21	N	15616008
18	184m W	561070 174940	NORTHFLEET, PAPER MILLS	60.96	N	838850
E	184m W	561077 174701	CHANNEL TUNNEL RAIL LINK DS7754	5.0	N	15621400
E	187m W	561072 174682	CHANNEL TUNNEL RAIL LINK TP7795	4.0	N	15616196
H	191m NW	561620 175350	TOWER WHARF NORTHFLEET C-F-20	-	Y	N/A
E	193m W	561066 174683	CHANNEL TUNNEL RAIL LINK SA7953	25.71	N	15621784
E	194m W	561069 174713	CHANNEL TUNNEL RAIL LINK TP7962A	3.8	N	15616290
19	194m SE	561980 174957	THAMES BARRIER PLA1978	20.38	N	838788
I	194m W	561073 174773	CHANNEL TUNNEL RAIL LINK TP2603	4.71	N	15616010
H	195m N	561650 175370	TOWER WHARF NORTHFLEET PHASE 2 C-F-25	-	Y	N/A
E	195m W	561067 174711	CHANNEL TUNNEL RAIL LINK TP7962B	3.8	N	15616291



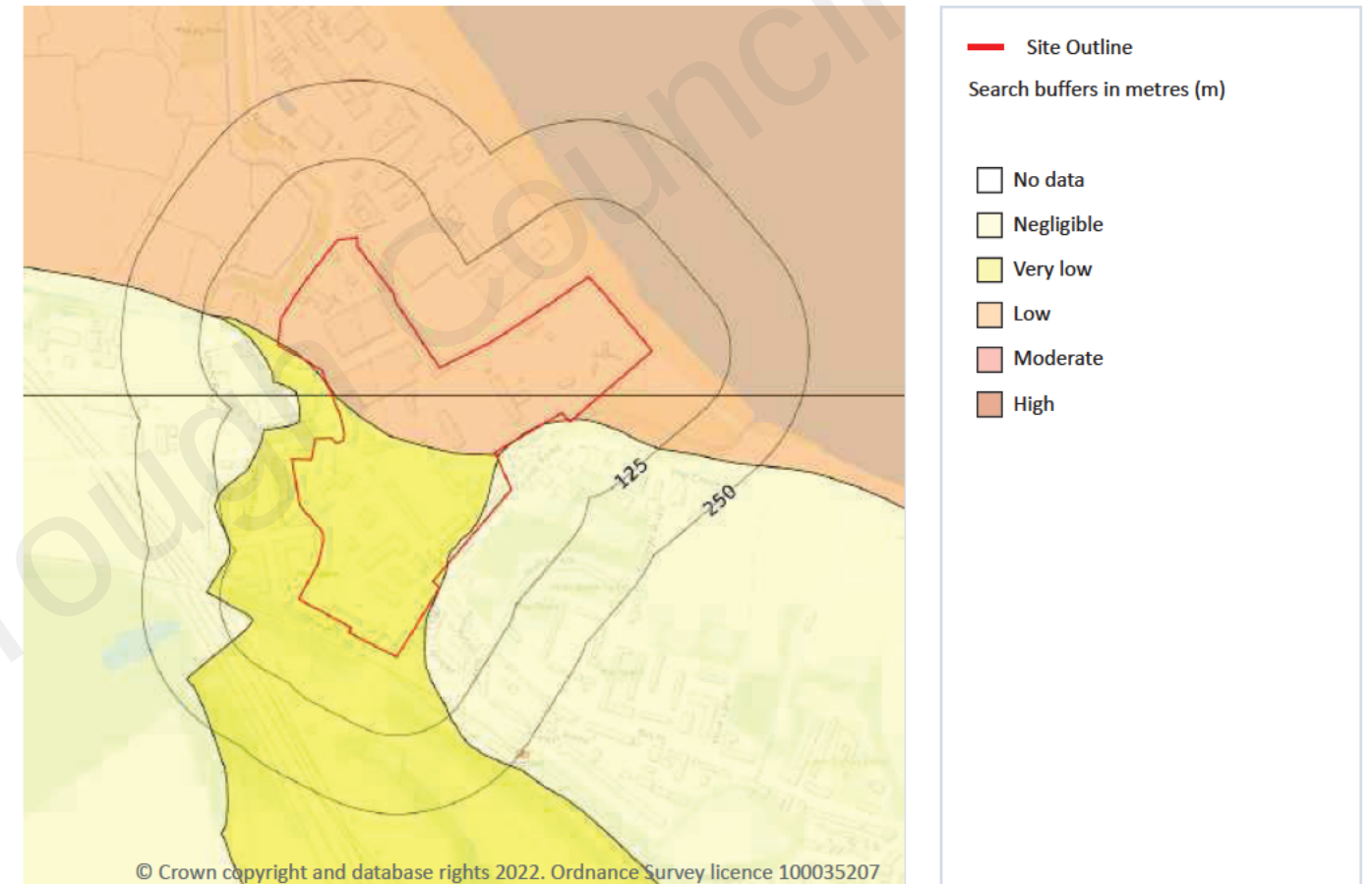
ID	Location	Grid reference	Name	Length	Confidential	Web link
20	196m SW	561064 174968	CHANNEL TUNNEL RAIL LINK AC1931	9.81	N	15621347
E	196m W	561063 174685	CHANNEL TUNNEL RAIL LINK TP7793	4.0	N	15616194
E	197m W	561064 174699	CHANNEL TUNNEL RAIL LINK DS7761	5.0	N	15621410
E	198m W	561061 174666	CHANNEL TUNNEL RAIL LINK SA1858	5.01	N	15621612
H	199m NW	561620 175360	TOWER WHARF NORTHFLEET F-21	-	Y	N/A
H	202m NW	561600 175350	TOWER WHARF NORTHFLEET F-18	-	Y	N/A
H	203m NW	561630 175370	TOWER WHARF NORTHFLEET PHASE 2 F-23	-	Y	N/A
E	209m W	561053 174708	CHANNEL TUNNEL RAIL LINK DS7755	5.0	N	15621401
21	212m SE	561950 174900	NORTHFLEET WORKS 20	7.62	N	838650
22	215m SE	561920 174870	NORTHFLEET WORKS 19	6.1	N	838649
I	217m W	561050 174770	GALLEY HILL RD NORTHFLEET NF 2GH	-	Y	N/A
E	218m W	561052 174743	CHANNEL TUNNEL RAIL LINK SA2565	10.01	N	15621636
E	219m W	561045 174720	CHANNEL TUNNEL RAIL LINK TP7961A	3.6	N	15616286
E	220m W	561044 174719	CHANNEL TUNNEL RAIL LINK TP7961B	3.1	N	15616289
E	220m W	561039 174680	CHANNEL TUNNEL RAIL LINK TP1868	5.01	N	15616040
E	220m W	561040 174699	CHANNEL TUNNEL RAIL LINK SA7936A	20.45	N	15621783
E	220m W	561040 174699	CHANNEL TUNNEL RAIL LINK SA7936	12.8	N	15621782
23	221m SW	561057 174585	CHANNEL TUNNEL RAIL LINK TP1873	2.41	N	15616045
E	221m W	561039 174700	CHANNEL TUNNEL RAIL LINK DS7750	5.0	N	15621396
E	225m W	561037 174712	CHANNEL TUNNEL RAIL LINK DS7756	5.0	N	15621403
I	229m W	561035 174785	CHANNEL TUNNEL RAIL LINK TP2581	5.51	N	15616032
24	230m W	560999 175121	CHANNEL TUNNEL RAIL LINK AC1919	9.51	N	15621252
J	230m NW	561630 175400	TOWER WHARF NORTHFLEET E-F-25	-	Y	N/A
25	233m SW	561064 174548	CHANNEL TUNNEL RAIL LINK SA1859	18.51	N	15621613
K	236m NW	561581 175378	THAMES BARRIER PLA1966	25.5	N	815331
26	236m W	561019 174839	CHANNEL TUNNEL RAIL LINK TP2580	5.61	N	15616031
I	238m W	561030 174766	UNION R'WAYS GROUND INV SA1244	-	Y	N/A
I	238m W	561030 174766	CHANNEL TUNNEL RAIL LINK SA1244	10.01	N	15621579



ID	Location	Grid reference	Name	Length	Confidential	Web link
K	246m NW	561580 175390	TOWER WHARF NORTHFLEET E-19	-	Y	N/A
27	247m S	561500 174350	CHANNEL TUNNEL RAIL LINK R920110	11.6	N	15621520
J	248m NW	561610 175410	TOWER WHARF NORTHFLEET PHASE 2 E-23-24	-	Y	N/A
28	249m SE	561960 174860	NORTHFLEET WORKS 18	9.14	N	838648

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

5

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 220](#)

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

Location	Hazard rating	Details
28m SW	Negligible	Ground conditions predominantly non-plastic.
39m NW	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

9

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.

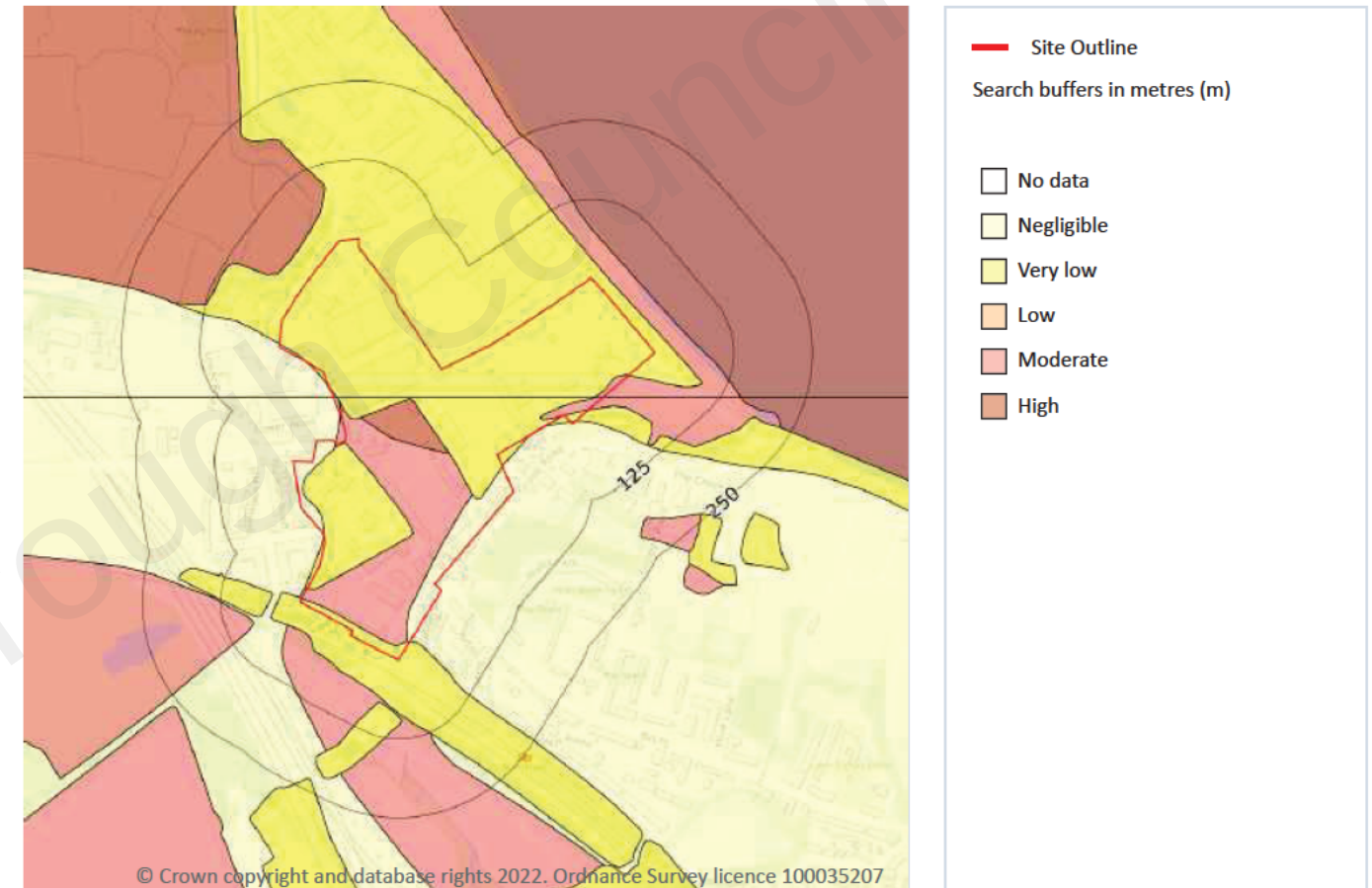
Features are displayed on the Natural ground subsidence - Running sands map on [page 222](#)

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.
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
On site	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.
28m SW	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.
39m NW	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.
39m SW	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
41m NW	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
47m SE	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

7

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.

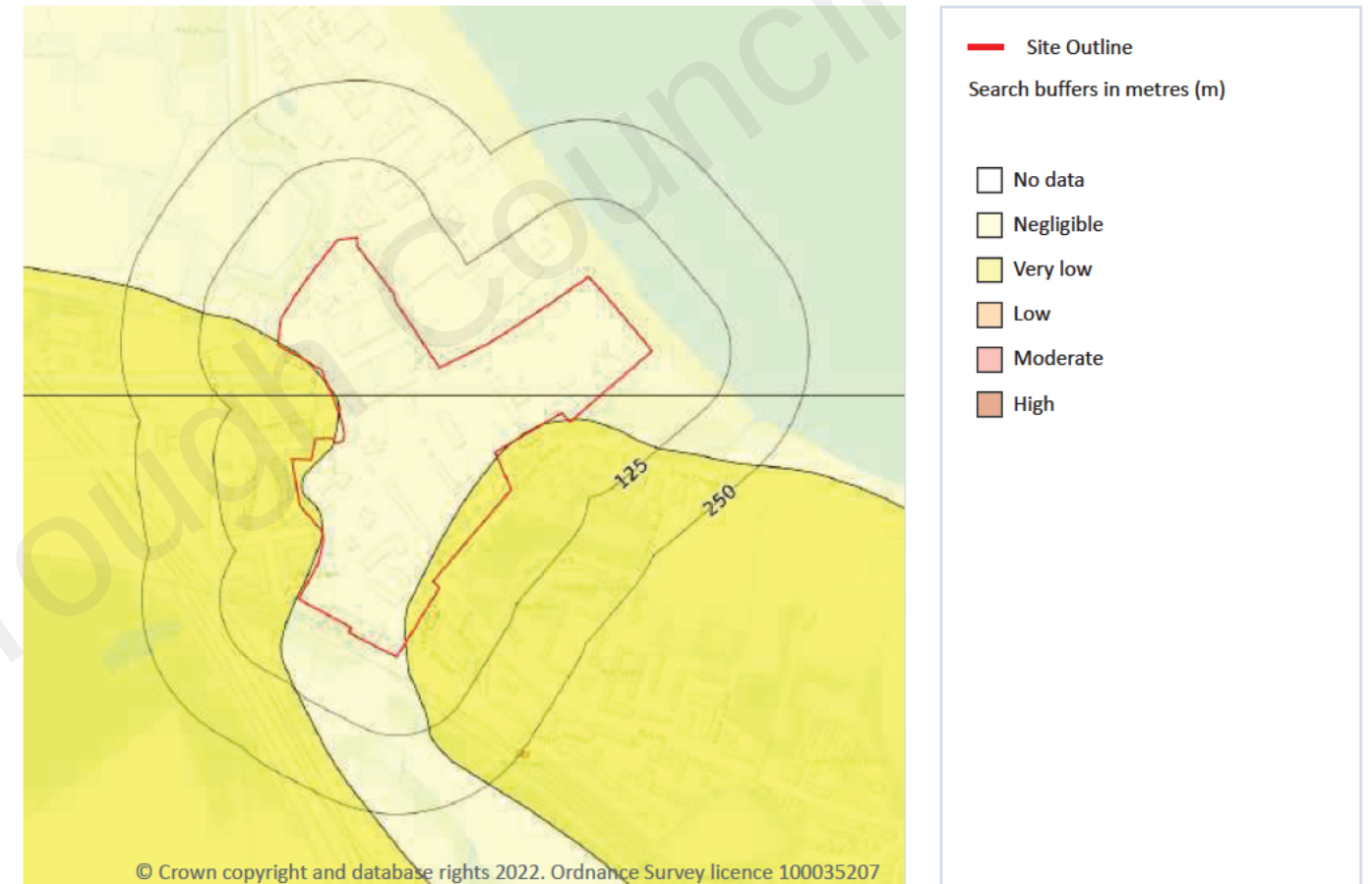
Features are displayed on the Natural ground subsidence - Compressible deposits map on page 224

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
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
On site	High	Highly compressible strata present. Significant constraint on land use depending on thickness.
39m SW	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
41m NW	High	Highly compressible strata present. Significant constraint on land use depending on thickness.
44m W	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

2

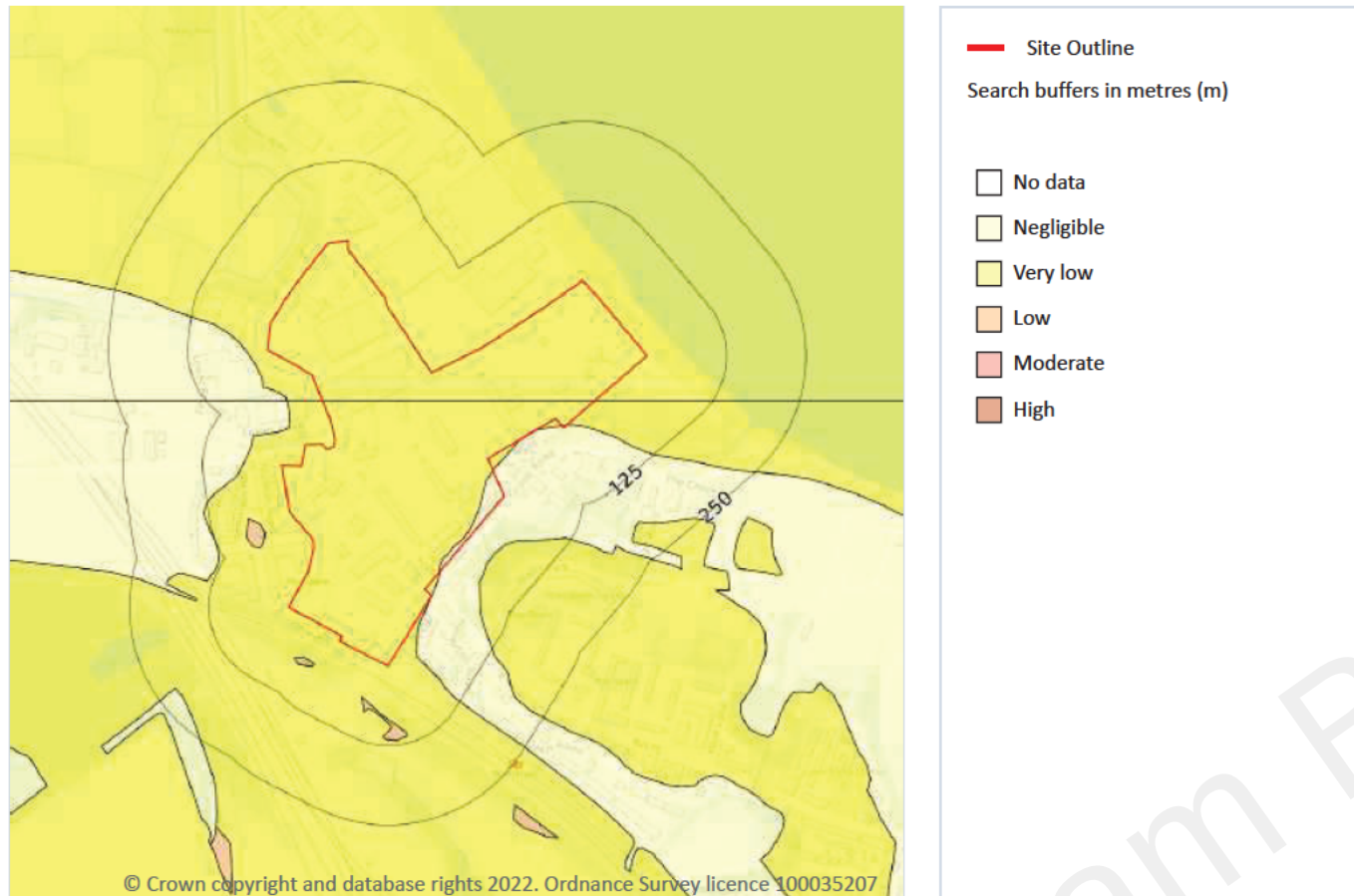
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on page 226

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



17.5 Landslides

Records within 50m

6

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 227](#)

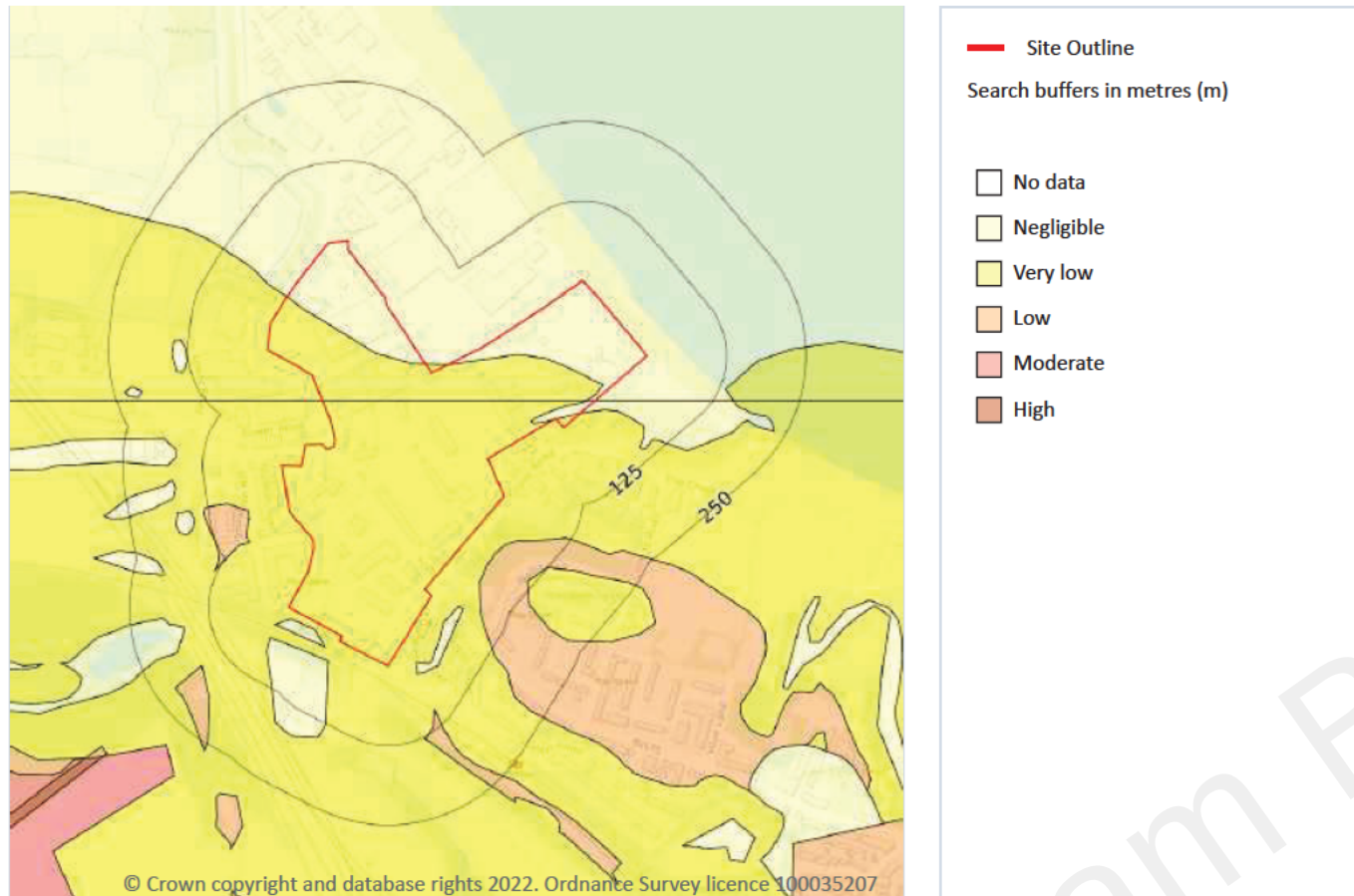
Location	Hazard rating	Details
On site	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

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.
28m SW	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.
39m NW	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.
47m SE	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.
50m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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.
11m 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.
35m SE	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.
36m 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.
48m SE	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.

This data is sourced from the British Geological Survey.

17.6 Ground dissolution of soluble rocks

Records within 50m

6

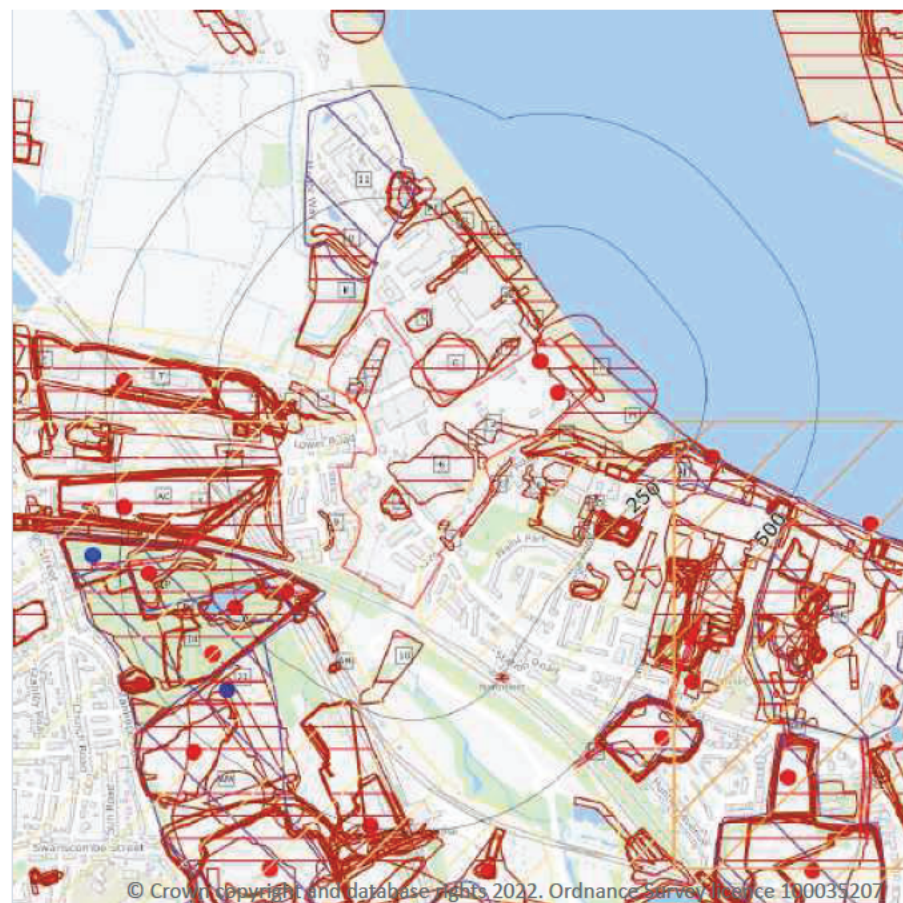
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on page 229

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



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

1

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 231](#)

ID	Location	Details	Source
21	377m SW	Type: Solution Pipe x 3 Superficial Geology: Made Ground, Worked Ground Bedrock Geology: Chalk Group	Simple Bibliography: - Full Bibliography: PRESTWICH, J., On the origin of the sand and gravel-pipes in the chalk of the London Tertiary District., 1855; Quarterly Journal of Geological Society 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 231](#)

ID	Location	Details	Description
1	On site	Name: Northfleet Aggregate 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 handling minerals
C	On site	Name: Robin's 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 handling minerals
S	139m SW	Name: Swanscombe Chalk Pit Address: Galley Hill, SWANSCOMBE, 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
AB	258m W	Name: Galley Hill Chalk Pits Address: Galley Hill, SWANSCOMBE, 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
17	302m SE	Name: Brett's Aggregates Address: NORTHFLEET, Kent Commodity: Marine Sand & Gravel Status: Ceased	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored 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
18	350m SW	Name: Galley Hill Chalk Pits Address: Galley Hill, SWANSCOMBE, 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
AP	433m W	Name: Galley Hill Chalk Pits Address: Galley Hill, SWANSCOMBE, 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
23	456m W	Name: Britannia Cement Works Address: Galley Hill, SWANSCOMBE, 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
24	488m W	Name: Britannia Cement Works Address: Galley Hill, SWANSCOMBE, 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
D	495m S	Name: Swanscombe Gravel Pit Address: SWANSCOMBE, Kent Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.



18.3 Surface ground workings

Records within 250m 200

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 231

ID	Location	Land Use	Year of mapping	Mapping scale
2	On site	Ponds	1865	1:10560
3	On site	Pond	1865	1:10560
4	On site	Ponds	1865	1:10560
5	On site	Refuse Heap	1955	1:10560
6	On site	Unspecified Pit	1865	1:10560
A	On site	Unspecified Wharf	1895	1:10560
A	On site	Unspecified Wharf	1888	1:10560
A	On site	Unspecified Wharf	1898	1:10560
A	On site	Unspecified Wharf	1898	1:10560
B	On site	Pond	1895	1:10560
B	On site	Pond	1895	1:10560
B	On site	Pond	1888	1:10560
B	On site	Pond	1898	1:10560
B	On site	Pond	1898	1:10560
C	On site	Unspecified Ground Workings	1907	1:10560
F	On site	Pond	1865	1:10560
F	On site	Unspecified Heap	1955	1:10560
G	On site	Unspecified Wharf	1982	1:10000
G	On site	Unspecified Wharf	1992	1:10000
G	On site	Unspecified Wharf	1993	1:10000
H	On site	Unspecified Wharf	1895	1:10560
I	On site	Unspecified Heap	1955	1:10560
I	On site	Unspecified Heap	1966	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
J	2m SE	Unspecified Wharf	1990	1:10000
J	2m SE	Unspecified Wharf	1977	1:10000
J	2m SE	Unspecified Wharf	1971	1:10000
J	2m SE	Unspecified Wharf	1966	1:10560
K	6m NW	Unspecified Pit	1907	1:10560
K	6m NW	Unspecified Pit	1895	1:10560
L	8m NW	Unspecified Wharf	1888	1:10560
K	9m NW	Unspecified Pit	1923	1:10560
M	10m NW	Refuse Heap	1955	1:10560
N	12m SE	Unspecified Wharf	1932	1:10560
N	13m SE	Unspecified Wharf	1946	1:10560
M	13m NW	Refuse Heap	1966	1:10560
7	22m W	Unspecified Ground Workings	1973	1:10000
O	22m NE	Refuse Heap	1955	1:10560
O	24m NE	Refuse Heap	1966	1:10560
J	27m S	Unspecified Wharf	1865	1:10560
J	28m S	Unspecified Wharf	1938	1:10560
J	28m S	Unspecified Wharf	1938	1:10560
L	33m NW	Unspecified Wharf	1898	1:10560
L	33m NW	Unspecified Wharf	1898	1:10560
8	35m NW	Unspecified Wharf	1895	1:10560
9	44m NW	Unspecified Ground Workings	1955	1:10560
P	54m S	Ponds	1865	1:10560
10	60m SW	Unspecified Ground Workings	1923	1:10560
P	61m SE	Ponds	1865	1:10560
J	65m SE	Unspecified Wharf	1955	1:10560
Q	65m SW	Unspecified Ground Workings	1932	1:10560
Q	69m SW	Unspecified Ground Workings	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
Q	69m SW	Unspecified Ground Workings	1938	1:10560
S	72m SW	Old Chalk Pit	1895	1:10560
S	75m SW	Old Chalk Pit	1888	1:10560
S	76m SW	Old Chalk Pit	1895	1:10560
R	77m SW	Gravel Pit	1990	1:10000
R	79m SW	Old Chalk Pits	1932	1:10560
S	79m SW	Old Chalk Pit	1898	1:10560
S	79m SW	Old Chalk Pit	1898	1:10560
R	80m SW	Old Chalk Pits	1938	1:10560
S	81m SW	Unspecified Pits	1946	1:10560
R	82m SW	Chalk Pits	1923	1:10560
R	82m SW	Old Chalk Pit	1966	1:10560
R	82m SW	Old Chalk Pit	1955	1:10560
R	83m SW	Chalk Pits	1907	1:10560
R	85m SW	Chalk Pits	1923	1:10560
Q	87m SW	Unspecified Heap	1946	1:10560
T	89m SW	Chalk Pit	1898	1:10560
T	89m SW	Chalk Pit	1898	1:10560
U	98m N	Pond	1938	1:10560
U	98m N	Pond	1946	1:10560
V	101m SE	Unspecified Ground Workings	1916	1:10560
W	105m NE	Unspecified Wharf	1955	1:10560
W	105m NE	Unspecified Wharf	1966	1:10560
P	105m S	Unspecified Ground Workings	1938	1:10560
P	105m S	Unspecified Ground Workings	1938	1:10560
W	106m NE	Unspecified Wharf	1973	1:10000
X	108m SW	Unspecified Pits	1932	1:10560
L	108m NW	Unspecified Wharf	1973	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
P	109m S	Unspecified Heap	1938	1:10560
P	109m S	Unspecified Heap	1938	1:10560
X	109m SW	Unspecified Pits	1938	1:10560
X	109m SW	Unspecified Pits	1938	1:10560
Y	111m W	Chalk Pits	1923	1:10560
R	114m SW	Old Chalk Pits	1946	1:10560
Q	115m SW	Unspecified Ground Workings	1966	1:10560
Z	116m SE	Unspecified Wharf	1946	1:10560
T	119m SW	Chalk Pits	1923	1:10560
AA	121m SW	Reservoir	1938	1:10560
12	122m NW	Unspecified Wharf	1895	1:10560
X	124m SW	Unspecified Pit	1946	1:10560
Y	126m W	Unspecified Pit	1990	1:10000
Y	126m W	Unspecified Pit	1977	1:10000
Y	126m W	Unspecified Pit	1971	1:10000
AA	126m SW	Pond	1923	1:10560
X	127m SW	Unspecified Pit	1907	1:10560
AA	127m SW	Reservoir	1946	1:10560
AB	128m SW	Water Body	1932	1:10560
T	129m W	Chalk Pit	1895	1:10560
T	129m W	Unspecified Pit	1907	1:10560
AA	130m SW	Reservoir	1932	1:10560
AA	130m SW	Water Body	1907	1:10560
X	130m SW	Unspecified Pit	1923	1:10560
Q	131m SW	Pond	1971	1:10000
Q	131m SW	Pond	1966	1:10560
Q	131m SW	Pond	1955	1:10560
AA	131m SW	Pond	1923	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
X	132m SW	Unspecified Pit	1923	1:10560
Y	135m W	Old Chalk Pits	1938	1:10560
AA	136m SW	Pond	1955	1:10560
AA	136m SW	Pond	1966	1:10560
AA	136m SW	Reservoir	1973	1:10000
AA	137m W	Reservoir	1992	1:10000
AA	137m W	Reservoir	1993	1:10000
AA	137m W	Reservoir	1982	1:10000
Y	141m W	Chalk Pit	1895	1:10560
Z	143m SE	Unspecified Wharf	1938	1:10560
Y	144m W	Chalk Pit	1888	1:10560
AC	146m W	Unspecified Pit	1966	1:10560
AC	146m W	Unspecified Pit	1955	1:10560
AD	147m W	Cuttings	1966	1:10560
AD	147m W	Cuttings	1955	1:10560
Z	149m SE	Unspecified Wharf	1907	1:10560
Y	149m W	Chalk Pit	1898	1:10560
Y	149m W	Chalk Pit	1898	1:10560
Y	150m W	Chalk Pit	1895	1:10560
Z	150m SE	Unspecified Wharf	1923	1:10560
T	155m W	Chalk Pit	1888	1:10560
AD	156m W	Cuttings	1990	1:10000
AD	156m W	Cuttings	1971	1:10000
AD	157m W	Cuttings	1977	1:10000
T	157m W	Chalk Pit	1895	1:10560
AB	158m W	Water Body	1946	1:10560
AE	158m NW	Unspecified Wharf	1992	1:10000
AE	158m NW	Unspecified Wharf	1993	1:10000

