Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

193595 , 202286,

Order Details

Date: 04/07/2022

Your ref: JFR2786_Likely_Cable_Run_PO22-830

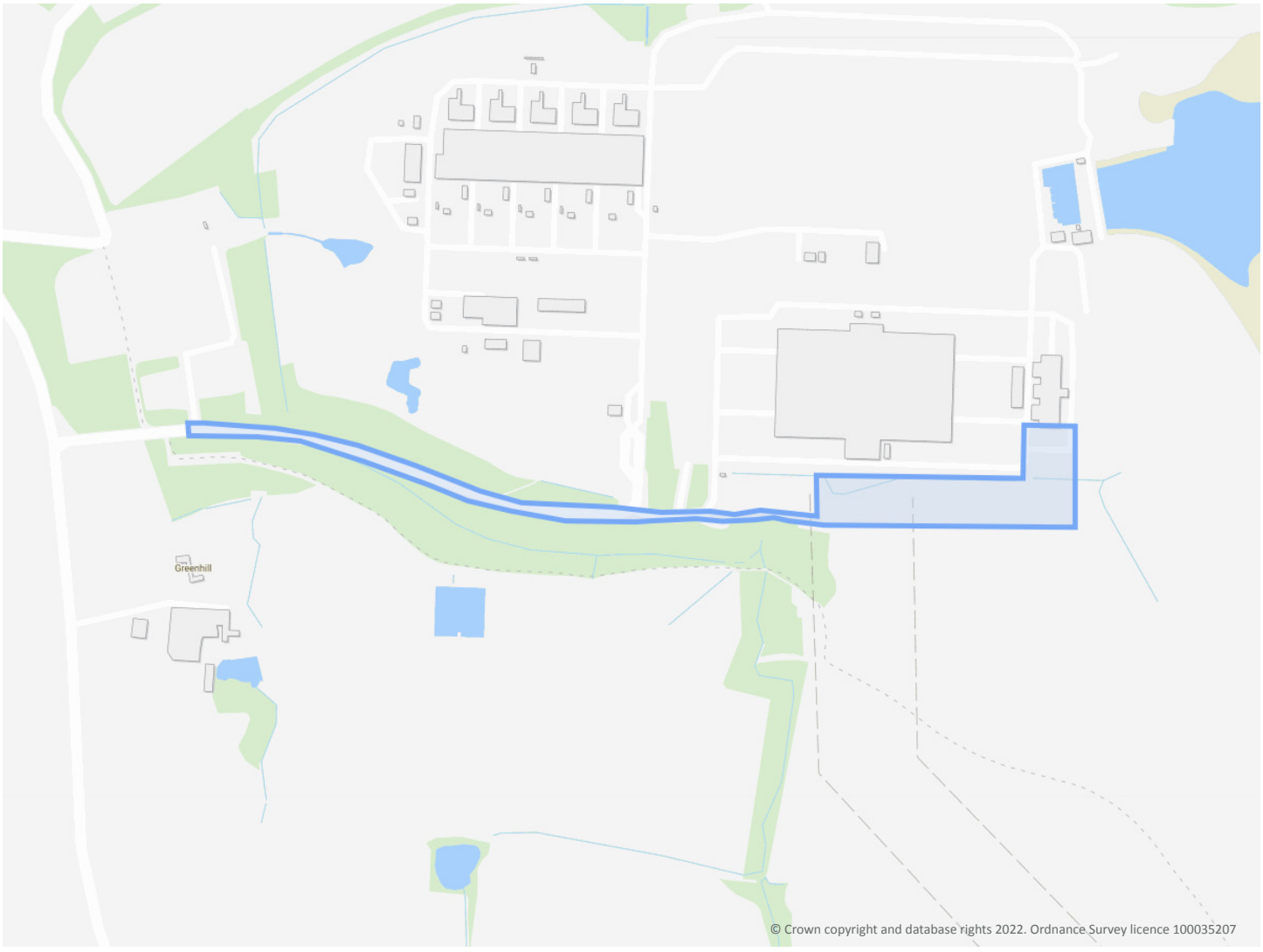
Our Ref: GS-8873318

Site Details

Location: 193320 202244

Area: 3.49 ha

Authority: Sir Benfro - Pembrokeshire County Council



Contact us with any questions at:
info@groundsure.com
08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	Historical industrial land uses	4	7	19	7	-
16	1.2	Historical tanks	0	0	11	7	-
17	1.3	Historical energy features	2	0	4	1	-
18	1.4	Historical petrol stations	0	0	0	0	-
18	1.5	Historical garages	0	0	0	0	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
19	2.1	Historical industrial land uses	4	7	21	7	-
21	2.2	Historical tanks	0	0	14	10	-
22	2.3	Historical energy features	4	0	7	3	-
23	2.4	Historical petrol stations	0	0	0	0	-
23	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
24	3.1	Active or recent landfill	0	0	0	0	-
24	3.2	Historical landfill (BGS records)	0	0	0	0	-
25	3.3	Historical landfill (LA/mapping records)	0	0	2	0	-
25	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
25	3.5	Historical waste sites	0	0	0	0	-
25	3.6	Licensed waste sites	0	0	0	8	-
28	3.7	Waste exemptions	0	0	4	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
29	4.1	Recent industrial land uses	1	1	4	-	-
30	4.2	Current or recent petrol stations	0	0	0	0	-
30	4.3	Electricity cables	0	0	0	0	-
30	4.4	Gas pipelines	0	0	0	0	-
30	4.5	Sites determined as Contaminated Land	0	0	0	0	-

31	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
31	4.7	Regulated explosive sites	0	0	0	0	-
31	**4.8**	**Hazardous substance storage/usage**	0	0	1	0	-
31	**4.9**	**Historical licensed industrial activities (IPC)**	0	0	0	3	-
32	**4.10**	**Licensed industrial activities (Part A(1))**	0	0	0	5	-
33	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
33	4.12	Radioactive Substance Authorisations	0	0	0	0	-
33	**4.13**	**Licensed Discharges to controlled waters**	2	0	3	2	-
35	**4.14**	**Pollutant release to surface waters (Red List)**	0	1	0	3	-
35	4.15	Pollutant release to public sewer	0	0	0	0	-
36	**4.16**	**List 1 Dangerous Substances**	0	1	0	0	-
36	**4.17**	**List 2 Dangerous Substances**	0	1	0	0	-
36	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
36	4.19	Pollution inventory substances	0	0	0	0	-
37	4.20	Pollution inventory waste transfers	0	0	0	0	-
37	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
38	**5.1**	**Superficial aquifer**	Identified (within 500m)				
40	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
42	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
44	**5.4**	**Groundwater vulnerability- soluble rock risk**	Identified (within 0m)				
44	5.5	Groundwater vulnerability- local information	None (within 0m)				
45	5.6	Groundwater abstractions	0	0	0	0	0
46	**5.7**	**Surface water abstractions**	0	0	0	7	11
50	5.8	Potable abstractions	0	0	0	0	0
50	5.9	Source Protection Zones	0	0	0	0	-
50	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
51	**6.1**	**Water Network (OS MasterMap)**	4	12	17	-	-

54	6.2	Surface water features	1	9	11	-	-
54	6.3	WFD Surface water body catchments	1	-	-	-	-
55	6.4	WFD Surface water bodies	0	0	1	-	-
55	6.5	WFD Groundwater bodies	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
56	7.1	Risk of flooding from rivers and the sea	High (within 50m)				
57	7.2	Historical Flood Events	0	0	0	-	-
57	7.3	Flood Defences	0	0	0	-	-
57	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
57	7.5	Flood Storage Areas	0	0	0	-	-
58	7.6	Flood Zone 2	Identified (within 50m)				
59	7.7	Flood Zone 3	Identified (within 50m)				
Page	Section	Surface water flooding					
60	8.1	Surface water flooding	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
62	9.1	Groundwater flooding	High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
63	10.1	Sites of Special Scientific Interest (SSSI)	0	0	2	1	4
64	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
64	10.3	Special Areas of Conservation (SAC)	0	0	1	0	2
65	10.4	Special Protection Areas (SPA)	0	0	0	0	0
65	10.5	National Nature Reserves (NNR)	0	0	0	0	0
65	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
66	10.7	Designated Ancient Woodland	0	0	0	0	9
66	10.8	Biosphere Reserves	0	0	0	0	0
67	10.9	Forest Parks	0	0	0	0	0
67	10.10	Marine Conservation Zones	0	0	0	0	0
67	10.11	Green Belt	0	0	0	0	0
67	10.12	Proposed Ramsar sites	0	0	0	0	0

67	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
68	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
68	10.15	Nitrate Sensitive Areas	0	0	0	0	0
68	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
69	10.17	SSSI Impact Risk Zones	0	-	-	-	-
69	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
70	11.1	World Heritage Sites	0	0	0	-	-
70	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
70	11.3	National Parks	0	0	0	-	-
70	11.4	Listed Buildings	0	0	0	-	-
71	11.5	Conservation Areas	0	0	0	-	-
71	11.6	Scheduled Ancient Monuments	0	0	0	-	-
71	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
72	**12.1**	**Agricultural Land Classification**	Grade 4 (within 250m)				
73	12.2	Open Access Land	0	0	0	-	-
73	12.3	Tree Felling Licences	0	0	0	-	-
73	12.4	Environmental Stewardship Schemes	0	0	0	-	-
74	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
75	13.1	Priority Habitat Inventory	0	0	0	-	-
75	13.2	Habitat Networks	0	0	0	-	-
75	13.3	Open Mosaic Habitat	0	0	0	-	-
75	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
76	**14.1**	**10k Availability**	Identified (within 500m)				
77	14.2	Artificial and made ground (10k)	0	0	0	0	-
78	14.3	Superficial geology (10k)	0	0	0	0	-

78	14.4	Landslip (10k)	0	0	0	0	-
79	14.5	Bedrock geology (10k)	0	0	0	0	-
79	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
80	**15.1**	**50k Availability**	Identified (within 500m)				
82	15.2	Artificial and made ground (50k)	0	0	0	0	-
82	15.3	Artificial ground permeability (50k)	0	0	-	-	-
83	**15.4**	**Superficial geology (50k)**	1	0	0	3	-
84	**15.5**	**Superficial permeability (50k)**	Identified (within 50m)				
84	15.6	Landslip (50k)	0	0	0	0	-
84	15.7	Landslip permeability (50k)	None (within 50m)				
85	**15.8**	**Bedrock geology (50k)**	2	0	5	13	-
87	**15.9**	**Bedrock permeability (50k)**	Identified (within 50m)				
87	**15.10**	**Bedrock faults and other linear features (50k)**	0	0	3	2	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
88	**16.1**	**BGS Boreholes**	4	17	155	-	-
Page	Section	Natural ground subsidence					
96	**17.1**	**Shrink swell clays**	Very low (within 50m)				
98	**17.2**	**Running sands**	Low (within 50m)				
100	**17.3**	**Compressible deposits**	Moderate (within 50m)				
102	**17.4**	**Collapsible deposits**	Very low (within 50m)				
103	**17.5**	**Landslides**	Low (within 50m)				
105	**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
107	18.1	Natural cavities	0	0	0	0	-
108	18.2	BritPits	0	0	0	0	-
108	**18.3**	**Surface ground workings**	2	6	13	-	-
109	18.4	Underground workings	0	0	0	0	0
109	18.5	Historical Mineral Planning Areas	0	0	0	0	-

109	**18.6**	**Non-coal mining**	1	0	2	0	2
110	18.7	Mining cavities	0	0	0	0	0
110	18.8	JPB mining areas	None (within 0m)				
110	18.9	Coal mining	None (within 0m)				
111	18.10	Brine areas	None (within 0m)				
111	18.11	Gypsum areas	None (within 0m)				
111	18.12	Tin mining	None (within 0m)				
111	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
112	**19.1**	**Radon**	Between 10% and 30% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
114	**20.1**	**BGS Estimated Background Soil Chemistry**	6	5	-	-	-
114	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
115	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

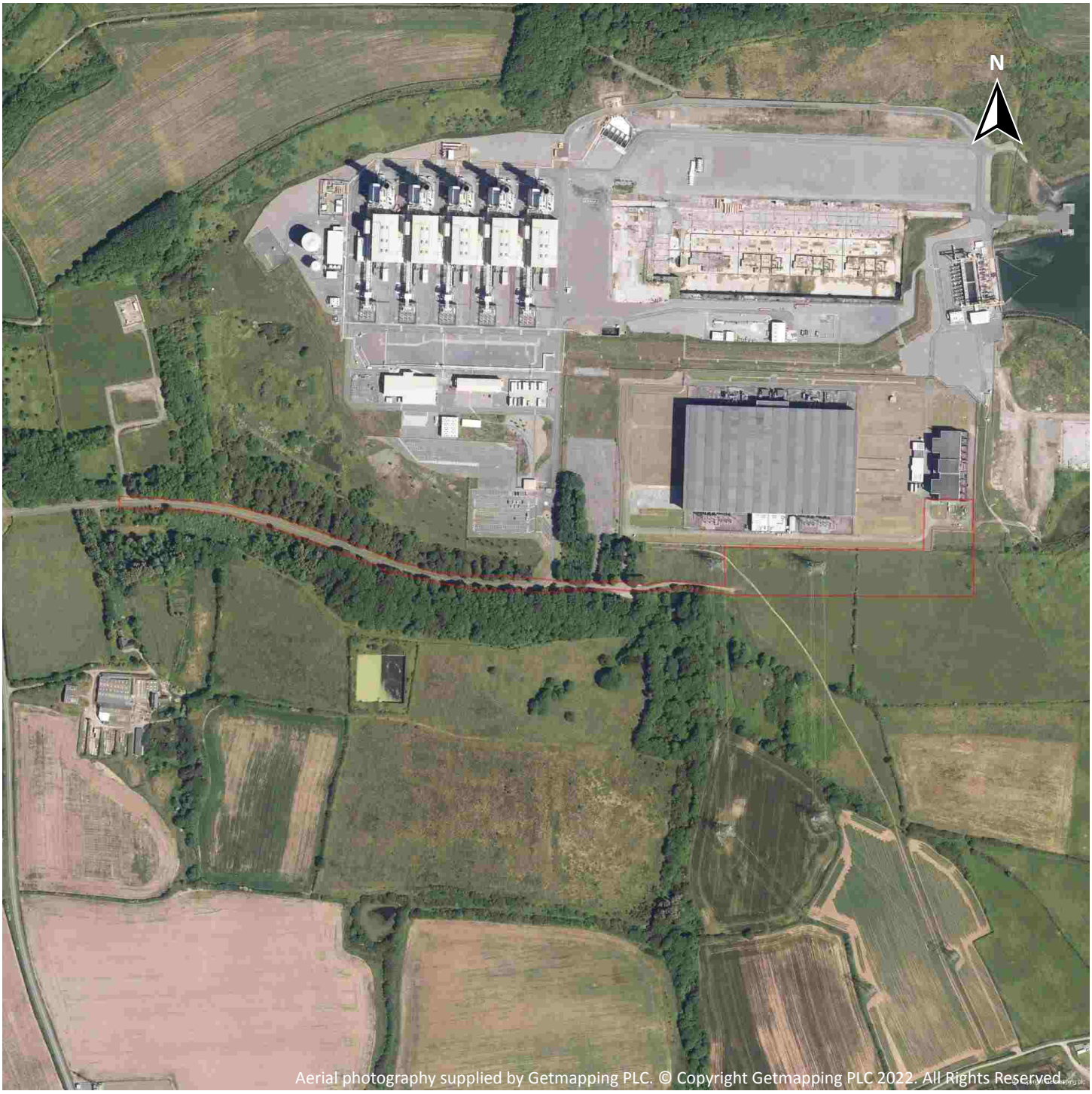
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
116	21.1	Underground railways (London)	0	0	0	-	-
116	21.2	Underground railways (Non-London)	0	0	0	-	-
116	21.3	Railway tunnels	0	0	0	-	-
116	21.4	Historical railway and tunnel features	0	0	0	-	-
116	21.5	Royal Mail tunnels	0	0	0	-	-
117	21.6	Historical railways	0	0	0	-	-
117	21.7	Railways	0	0	0	-	-
117	21.8	Crossrail 1	0	0	0	0	-
117	21.9	Crossrail 2	0	0	0	0	-
117	21.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 14/05/2020

Site Area: 3.49ha

Recent site history - 2017 aerial photograph



Capture Date: 18/06/2017

Site Area: 3.49ha

Recent site history - 2009 aerial photograph

Capture Date: 11/09/2009

Site Area: 3.49ha

Recent site history - 2003 aerial photograph

Capture Date: 14/09/2003

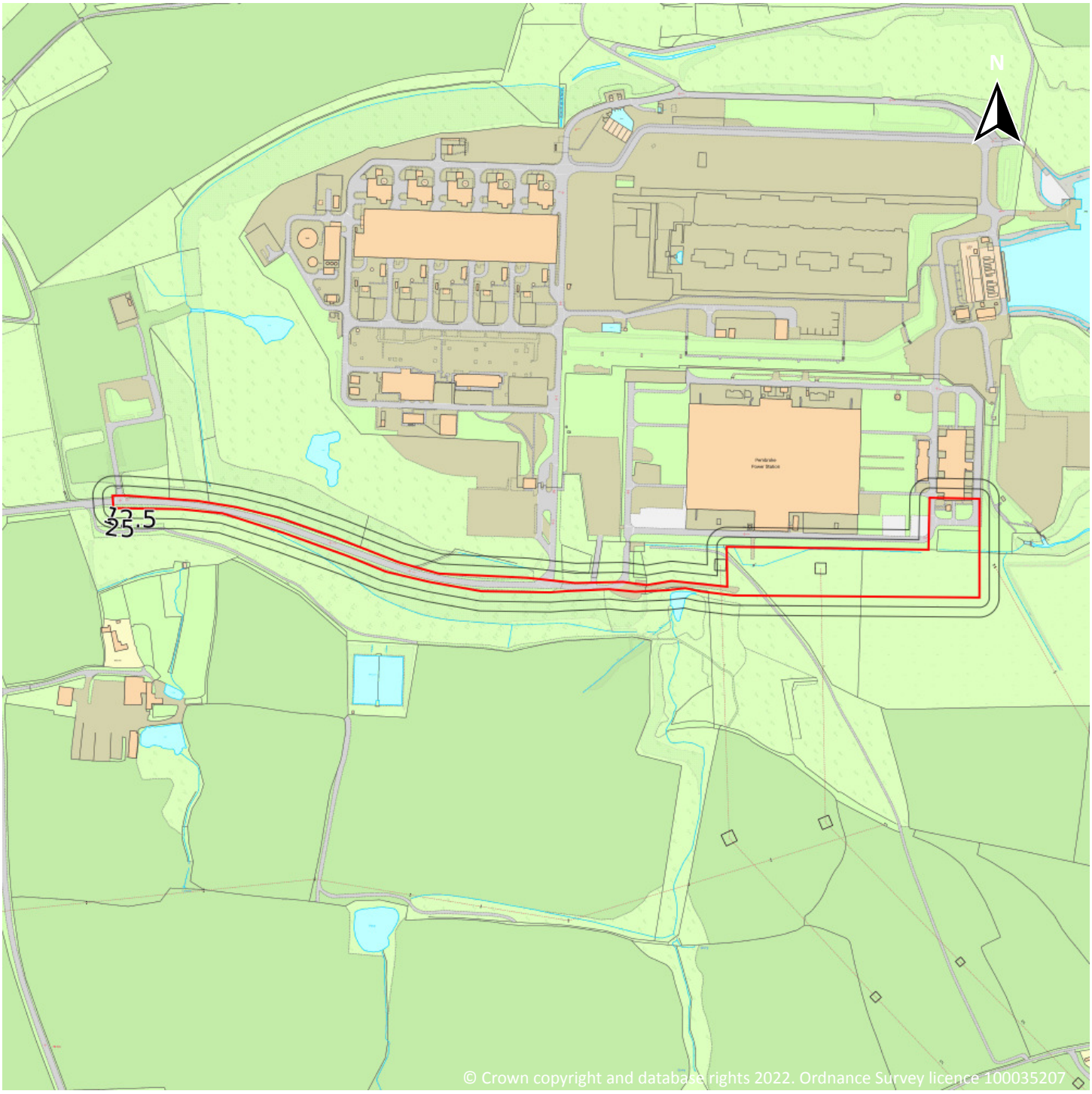
Site Area: 3.49ha

Recent site history - 2000 aerial photograph

Capture Date: 21/07/2000

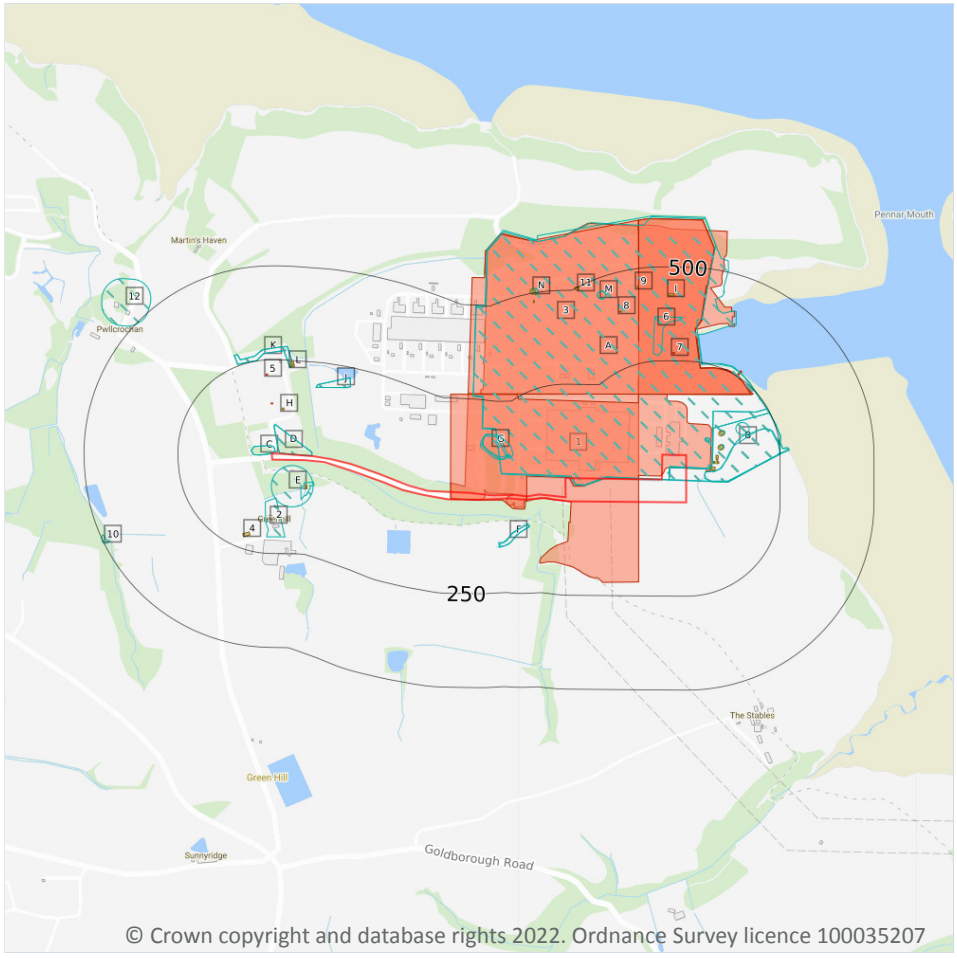
Site Area: 3.49ha

OS MasterMap site plan



Site Area: 3.49ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

1.1 Historical industrial land uses

Records within 500m	37

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

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

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Power Station**	**1994**	**16330**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Power Station**	**1975**	**16495**
B	**On site**	**Sewage Works**	**1994**	**16605**
B	**On site**	**Sewage Works**	**1975**	**16901**
C	0m N	Unspecified Ground Workings	1975	14448
C	0m N	Unspecified Ground Workings	1994	14808
D	1m N	Unspecified Pit	1975	15940
D	1m N	Unspecified Pit	1994	16487
E	15m S	Unspecified Mill	1963	11723
B	48m E	Unspecified Pit	1994	16719
B	50m E	Unspecified Pit	1975	17659
E	56m S	Corn Mill	1864 - 1906	16546
B	65m NE	Chimney	1994	15096
B	65m NE	Chimney	1975	15421
F	66m S	Unspecified Ground Workings	1994	16912
F	66m S	Unspecified Ground Workings	1975	16293
B	92m E	Unspecified Tank	1994	14062
B	92m E	Unspecified Tank	1975	16080
G	95m N	Unspecified Pit	1963	13812
G	95m N	Unspecified Pit	1906 - 1948	15212
G	98m N	Lime Kiln	1864	12278
G	100m N	Unspecified Quarry	1864	12212
2	102m S	Corn Mill	1948	12579
B	109m NE	Unspecified Tank	1994	16089
B	109m NE	Unspecified Tank	1975	16515
B	148m NE	Unspecified Tank	1994	11607
J	183m N	Unspecified Pit	1994	16723
J	183m N	Unspecified Pit	1975	17474
K	231m N	Unspecified Ground Workings	1975	15413

ID	Location	Land use	Dates present	Group ID
K	231m N	Unspecified Ground Workings	1994	17222
6	264m N	Unspecified Ground Workings	1994	12896
M	444m N	Chimney	1994	14773
M	444m N	Chimney	1975	16949
10	485m SW	Unspecified Quarry	1864	12211
12	495m NW	Sand Pit	1864	11832
N	497m N	Unspecified Tank	1975	14163
N	497m N	Unspecified Tank	1994	16177

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**18**

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

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

ID	Location	Land use	Dates present	Group ID
B	66m E	Tanks	1972	1994
E	67m S	Unspecified Tank	1972 - 1993	2504
B	73m E	Tanks	1972	1993
B	79m E	Tanks	1972	2003
B	82m E	Tanks	1972	2004
B	87m E	Unspecified Tank	1972	1825
B	103m NE	Unspecified Tank	1972	1824
H	116m N	Unspecified Tank	1993	1808
4	202m S	Tanks	1972	1992
L	233m N	Unspecified Tank	1972 - 1993	2574

ID	Location	Land use	Dates present	Group ID
L	238m N	Unspecified Tank	1972 - 1993	2711
8	395m N	Tanks	1988	1995
I	423m N	Tanks	1988 - 1993	2099
9	449m N	Unspecified Tank	1988	1819
N	474m N	Tanks	1988	1996
11	491m NW	Tanks	1988	2000
N	494m N	Unspecified Tank	1972 - 1988	2292
N	497m N	Unspecified Tank	1972 - 1988	2692

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**7**

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

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

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Power Station**	**1990 - 1993**	**566**
A	**On site**	**Power Station**	**1972**	**694**
H	133m N	Electricity Substation	1972	432
I	161m N	Power Station	1993	670
3	161m N	Power Station	1988	655
5	210m N	Electricity Substation	1972	431
7	269m N	Electricity Substation	1972 - 1993	708

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

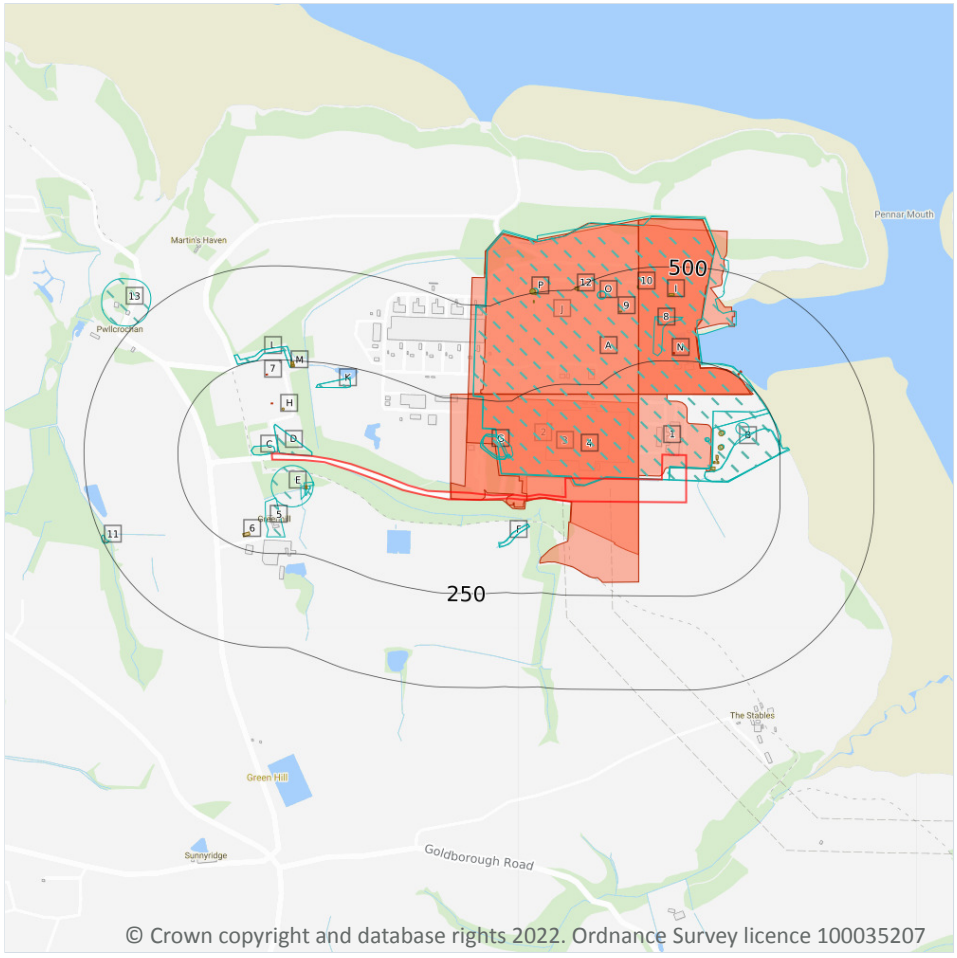
1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

2.1 Historical industrial land uses

Records within 500m	39

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

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

ID	Location	Land Use	Date	Group ID
A	**On site**	**Power Station**	**1994**	**16330**
A	**On site**	**Power Station**	**1975**	**16495**
B	**On site**	**Sewage Works**	**1994**	**16605**

ID	Location	Land Use	Date	Group ID
B	**On site**	**Sewage Works**	**1975**	**16901**
C	0m N	Unspecified Ground Workings	1994	14808
C	0m N	Unspecified Ground Workings	1975	14448
D	1m N	Unspecified Pit	1994	16487
D	1m N	Unspecified Pit	1975	15940
E	15m S	Unspecified Mill	1963	11723
B	48m E	Unspecified Pit	1994	16719
B	50m E	Unspecified Pit	1975	17659
E	56m S	Corn Mill	1864	16546
B	65m NE	Chimney	1994	15096
B	65m NE	Chimney	1975	15421
F	66m S	Unspecified Ground Workings	1994	16912
F	66m S	Unspecified Ground Workings	1975	16293
E	68m S	Corn Mill	1906	16546
B	92m E	Unspecified Tank	1994	14062
B	92m E	Unspecified Tank	1975	16080
G	95m N	Unspecified Pit	1963	13812
G	95m N	Unspecified Pit	1948	15212
G	95m N	Unspecified Pit	1906	15212
G	98m N	Lime Kiln	1864	12278
G	100m N	Unspecified Quarry	1864	12212
5	102m S	Corn Mill	1948	12579
B	109m NE	Unspecified Tank	1994	16089
B	109m NE	Unspecified Tank	1975	16515
B	148m NE	Unspecified Tank	1994	11607
K	183m N	Unspecified Pit	1994	16723
K	183m N	Unspecified Pit	1975	17474
L	231m N	Unspecified Ground Workings	1994	17222

ID	Location	Land Use	Date	Group ID
L	231m N	Unspecified Ground Workings	1975	15413
8	264m N	Unspecified Ground Workings	1994	12896
O	444m N	Chimney	1994	14773
O	444m N	Chimney	1975	16949
11	485m SW	Unspecified Quarry	1864	12211
13	495m NW	Sand Pit	1864	11832
P	497m N	Unspecified Tank	1994	16177
P	497m N	Unspecified Tank	1975	14163

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**24**

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

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

ID	Location	Land Use	Date	Group ID
B	66m E	Tanks	1972	1994
E	67m S	Unspecified Tank	1972	2504
E	68m S	Unspecified Tank	1993	2504
B	73m E	Tanks	1972	1993
B	79m E	Tanks	1972	2003
B	82m E	Tanks	1972	2004
B	87m E	Unspecified Tank	1972	1825
B	103m NE	Unspecified Tank	1972	1824
H	116m N	Unspecified Tank	1993	1808
6	202m S	Tanks	1972	1992
M	233m N	Unspecified Tank	1993	2574
M	233m N	Unspecified Tank	1972	2574

ID	Location	Land Use	Date	Group ID
M	238m N	Unspecified Tank	1993	2711
M	239m N	Unspecified Tank	1972	2711
9	395m N	Tanks	1988	1995
I	423m N	Tanks	1993	2099
I	424m N	Tanks	1988	2099
10	449m N	Unspecified Tank	1988	1819
P	474m N	Tanks	1988	1996
12	491m NW	Tanks	1988	2000
P	494m N	Unspecified Tank	1972	2292
P	495m N	Unspecified Tank	1988	2292
P	497m N	Unspecified Tank	1972	2692
P	498m N	Unspecified Tank	1988	2692

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m **14**

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

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

ID	Location	Land Use	Date	Group ID
1	**On site**	**Power Station**	**1972**	**694**
2	**On site**	**Power Station**	**1972**	**694**
3	**On site**	**Power Station**	**1990**	**566**
4	**On site**	**Power Station**	**1993**	**566**
H	133m N	Electricity Substation	1972	432
I	161m N	Power Station	1993	670
I	161m N	Power Station	1972	694
I	161m N	Power Station	1988	655

ID	Location	Land Use	Date	Group ID
J	173m N	Power Station	1988	655
J	173m N	Power Station	1972	694
7	210m N	Electricity Substation	1972	431
N	269m N	Electricity Substation	1993	708
N	269m N	Electricity Substation	1972	708
N	270m N	Electricity Substation	1988	708

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	**0**

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	**0**

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

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill

Site Outline

Search buffers in metres (m)

Historical landfill (LA/OS)

Licensed waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	2

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

Features are displayed on the Waste and landfill map on **page 24**

ID	Location	Site address	Source	Data type
A	64m S	Refuse Tip	1971 mapping	Polygon
A	91m 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	0

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.

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	8

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

Features are displayed on the Waste and landfill map on **page 24**

ID	Location	Details		
D	318m S	Site Name: Inert Landfill Site Address: Cheveralton Farm, Rhoscrowther, Angle, Pembroke, Pembrokeshire, SA71 5SU Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradeable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WIL007 EPR reference: EP3398FY/S002 Operator: W J A Williams & Son Waste Management licence No: 34195 Annual Tonnage: 150000	Issue Date: 24/07/1992 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Surrendered
D	319m S	Site Name: Inert Landfill Site Address: Cheveralton Farm, Rhoscrowther, Angle, Pembroke, Pembrokeshire, SA71 5SU Correspondence Address: Chevralton Farm, Rhoscrowther, Angle, Pembroke, Pembrokeshire, SA71 5SU	Type of Site: Landfill taking Non-Biodegradeable Wastes Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WIL007 EPR reference: - Operator: W J A Williams & Son Waste Management licence No: 34195 Annual Tonnage: 0	Issue Date: 24/07/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered
D	319m S	Site Name: Inert Landfill Site Address: Cheveralton Farm, Rhoscrowther, Angle, Pembroke, Pembrokeshire, SA71 5SU Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradeable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WIL007 EPR reference: EA/EPR/EP3398FY/S002 Operator: W J A Williams & Son Waste Management licence No: 34195 Annual Tonnage: 150000	Issue Date: 24/07/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered
D	319m S	Site Name: - Site Address: Inert Landfill, Angle, Pembroke, Pembrokeshire, SA71 5SU Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradeable Wastes Size: - Environmental Permitting Regulations (Waste) Licence Number: EP3398FY EPR reference: - Operator: W J A Williams & Son Waste Management licence No: 34195 Annual Tonnage: 0	Issue Date: 24/07/1992 Effective Date: 24/07/1992 Modified: - Surrendered Date: 31/03/1999 Expiry Date: - Cancelled Date: - Status: Surrender

ID	Location	Details		
D	319m S	Site Name: - Site Address: Inert Landfill, Angle, Pembroke, Pembrokeshire, SA71 5SU Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: EP3398FY EPR reference: - Operator: W J A Williams & Son Waste Management licence No: 0 Annual Tonnage: 0	Issue Date: 24/07/1992 Effective Date: 24/07/1992 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered
D	319m S	Site Name: - Site Address: Inert Landfill, Angle, Pembroke, Pembrokeshire, SA71 5SU Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradeable Wastes Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: EP3398FY EPR reference: - Operator: - Waste Management licence No: 34195 Annual Tonnage: 0	Issue Date: 24/07/1992 Effective Date: 24/07/1992 Modified: - Surrendered Date: 31/03/1999 Expiry Date: - Cancelled Date: - Status: Surrender
D	319m S	Site Name: - Site Address: Inert Landfill, Angle, Pembrokeshire, Pembroke, Pembrokeshire, SA71 5SU Correspondence Address: -	Type of Site: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: EP3398FY EPR reference: - Operator: W J A Williams & Son Waste Management licence No: 34195 Annual Tonnage: 0	Issue Date: 24/07/1992 Effective Date: 24/07/1992 Modified: - Surrendered Date: 31/03/1999 Expiry Date: - Cancelled Date: - Status: Surrender
D	319m S	Site Name: - Site Address: Inert Landfill, Angle, Pembroke, Pembrokeshire, SA71 5SU Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradeable Wastes Size: - Environmental Permitting Regulations (Waste) Licence Number: EP3398FY EPR reference: - Operator: W J A Williams & Son Waste Management licence No: 34195 Annual Tonnage: 0	Issue Date: 24/07/1992 Effective Date: 24/07/1992 Modified: - Surrendered Date: 31/03/1999 Expiry Date: - Cancelled Date: - Status: Surrender

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

3.7 Waste exemptions

Records within 500m	**4**

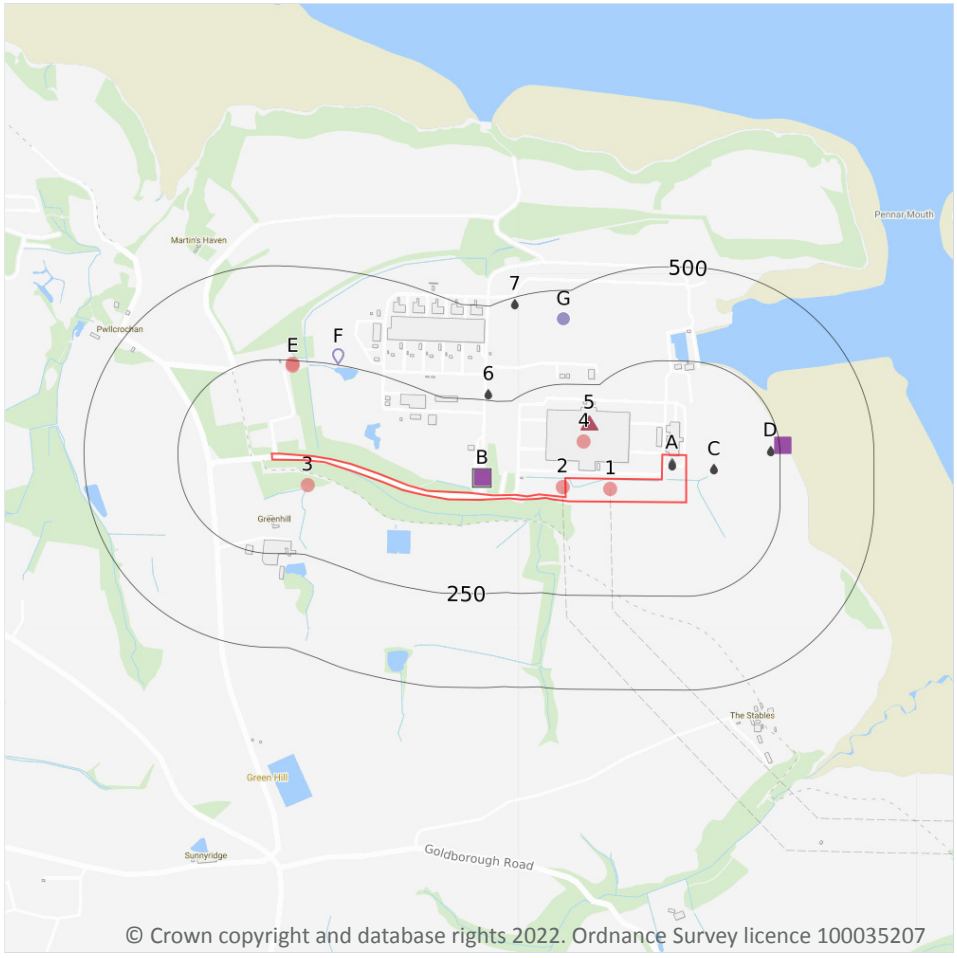
Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 24**

ID	Location	Site	Reference	Category	Sub-Category	Description
B	120m N	National Grid Gas plc, National Grid, Pembroke Sub Station, Pembroke, West Pennar, SA715SS	NRW-WME025717	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
B	120m N	National Grid Gas plc, National Grid, Pembroke Sub Station, Pembroke, West Pennar, SA715SS	NRW-WME025717	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	175m S	Pembroke 21C Community Interest Company, Green Hill Farm, Pwllcrochan, Pembroke, Pembrokeshire, SA715TJ	NRW-WME020124	Storing waste exemption	On a farm	Storage of waste in a secure place
C	175m S	Pembroke 21C Community Interest Company, Green Hill Farm, Pwllcrochan, Pembroke, Pembrokeshire, SA715TJ	NRW-WME020124	Using waste exemption	On a farm	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

Hazardous substance storage/usage

Historical licensed industrial activities

Part A(1) industrial activities

Licensed Discharges to controlled waters

Pollutant release to surface waters

List 1 Dangerous Substances

List 2 Dangerous Substances

4.1 Recent industrial land uses

Records within 250m	**6**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 29**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Pylon**	**Dyfed, SA71**	**Electrical Features**	**Infrastructure and Facilities**
2	8m W	Pylon	Dyfed, SA71	Electrical Features	Infrastructure and Facilities
3	64m S	Tank	Dyfed, SA71	Tanks (Generic)	Industrial Features

ID	Location	Company	Address	Activity	Category
4	99m N	Power Station	Dyfed, SA71	Energy Production	Industrial Features
E	235m N	Tank	Dyfed, SA71	Tanks (Generic)	Industrial Features
E	242m N	Tank	Dyfed, SA71	Tanks (Generic)	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	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 29**

ID	Location	Details	
5	148m N	Application reference number: 10/0373/HS Application status: Approved Application date: No Details Address: Alstom Power Ltd, Pembroke Power Station, Pembroke, Pembrokeshire, Wales, SA71 5SS	Details: Chemical cleaning of boilers on site for commissioning Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	3

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 29**

ID	Location	Details	
G	423m N	Operator: Rwe Npower Plc Address: Pembroke Power Station, West Pennar, Pembroke, Dyfed, SA71 5SS Process: Combustion Processes Permit Number: AA2666	Original Permit Number: IPCAIRAPP Date Approved: 8-4-1993 Effective Date: 8-4-1993 Status: Superseded By Variation
G	423m N	Operator: Rwe Npower Plc Address: Pembroke Power Station, West Pennar, Pembroke, Dyfed, SA71 5SS Process: Combustion Processes Permit Number: AN5853	Original Permit Number: IPCMINVAR Date Approved: 1-7-1994 Effective Date: 1-7-1994 Status: Superseded By Variation
G	423m N	Operator: Rwe Npower Plc Address: Pembroke Power Station, West Pennar, Pembroke, Dyfed, SA71 5SS Process: Combustion Processes Permit Number: AX1182	Original Permit Number: IPCMINVAR Date Approved: 17-12-1996 Effective Date: 31-12-1996 Status: Revoked

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m **5**

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 29**

ID	Location	Details	
F	272m N	Operator: RWE NPOWER PLC Installation Name: PEMBROKE POWER STATION EPR/DP333TA Process: COMBUSTION; ANY FUEL =>50MW Permit Number: BP3338ZK Original Permit Number: DP3333TA	EPR Reference: - Issue Date: 26/07/2013 Effective Date: 26/07/2013 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
F	272m N	Operator: RWE NPOWER PLC Installation Name: PEMBROKE POWER STATION Process: COMBUSTION; ANY FUEL =>50MW Permit Number: DP3333TA Original Permit Number: DP3333TA	EPR Reference: - Issue Date: 10/11/2011 Effective Date: 10/11/2011 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
F	272m N	Operator: RWE GENERATION UK PLC Installation Name: PEMBROKE POWER STATION Process: - Permit Number: DP3333TA Original Permit Number: BP3338ZK	EPR Reference: - Issue Date: 27/05/2016 Effective Date: 27/05/2016 Last date noted as effective: 01/12/2016 Status: EFFECTIVE

ID	Location	Details	
F	272m N	Operator: RWE GENERATION UK PLC Installation Name: PEMBROKE POWER STATION Process: BURNING ANY FUEL IN AN APPLIANCE Permit Number: DP3333TA Original Permit Number: BP3338ZK	EPR Reference: - Issue Date: 27/05/2016 Effective Date: 27/05/2016 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
F	272m N	Operator: RWE GENERATION UK PLC Installation Name: PEMBROKE POWER STATION Process: BURNING ANY FUEL IN AN APPLIANCE WITH A RATED THERMAL INPUT OF 50 OR MORE MEGAWATTS Permit Number: DP3333TA Original Permit Number: BP3338ZK	EPR Reference: - Issue Date: 16/10/2020 Effective Date: 16/10/2020 Last date noted as effective: 01/01/2022 Status: EFFECTIVE

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

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

Records within 500m	0

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.

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	7

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 29**

ID	Location	Address	Details	
A	**On site**	**OIL INTERCEPTOR@NATIONAL GRID, NATIONAL GRID PEMBROKE, 400/132KV SUBSTATION, PEMBROKE POWER STATION, Pembrokeshire, SA71 5SS**	**Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: TB3890HM Permit Version: 1 Receiving Water: DRAIN LEADING TO PENNAR GUT**	**Status: Effective Issue date: 18/12/2015 Effective Date: 18/12/2015 Revocation Date: -**
A	**On site**	**OIL INTERCEPT@PEMBROKE POWERSTATION, Pembroke Power Station, GRIB SUB STATION, Pembrokeshire, SA71 5SS**	**Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: GB3690HF Permit Version: 1 Receiving Water: DRAIN LEADING TO PENNAR GUT**	**Status: Effective Issue date: 02/10/2015 Effective Date: 02/10/2015 Revocation Date: -**
C	73m E	PEMBROKE POWER STATION WEST PENNA, PEMBROKE POWER STATION WEST PE, WEST PENNAR, SA71 5SS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: BH0055001 Permit Version: 1 Receiving Water: UNNAMED TRIB OF PEMBROKE RIVER	Status: REVOKED - UNSPECIFIED Issue date: 11/11/1965 Effective Date: 11/11/1965 Revocation Date: 12/03/1986
C	73m E	PEMBROKE POWER STATION WEST PENNA, PEMBROKE POWER STATION WEST PE, WEST PENNAR, SA71 5SS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: BH0055001 Permit Version: 2 Receiving Water: UNNAMED TRIB OF PEMBROKE RIVER	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV Issue date: 13/03/1986 Effective Date: 13/03/1986 Revocation Date: 13/02/2003
D	223m E	GREENHILL FARM & PEMBROKE POWER STN, GREENHILL FM & PEMBROKE PWR STN, PEMBNROKESHIRE, WALES, UK	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: BH0055002 Permit Version: 1 Receiving Water: PENNAR GUT	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV Issue date: 13/03/1986 Effective Date: 13/03/1986 Revocation Date: 23/09/2009
6	266m N	PEMBROKE POWER STATION WEST PENNA, PEMBROKE POWER STATION WEST PE, WEST PENNAR, SA71 5SS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: NPSWQD008613 Permit Version: 1 Receiving Water: MILFORD HAVEN	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY Issue date: 12/01/2010 Effective Date: 12/01/2010 Revocation Date: 31/12/2012
7	482m N	PEMBROKE POWER STATION SITE DRAIN, Pembroke Power Station, WEST PENNAR, PEMBROKE, Pembrokeshire, SA71 5SS	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: HP3820XU Permit Version: 1 Receiving Water: PENNAR GUT	Status: Effective Issue date: 14/06/2011 Effective Date: 14/06/2011 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	4

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

Features are displayed on the Current industrial land use map on **page 29**

ID	Location	Address	Details	
B	43m N	RWE GENERATION UK PLC, PEMBROKE POWER STATION SITE DRAIN, PEMBROKE POWER STATION, WEST PENNAR, PEMBROKE, PEMBROKESHIRE, SA71 5SS	Permit Number: HP3820XU Permit Version: 0 Status: Effective Discharge Type: -	Effluent Type: Trade Catchment: PENNAR GUT Approval Date: 2011-06-14T00:00:00.000Z
D	257m E	RWE NPOWER PLC, PEMBROKE POWER STATION SITE DRAIN, PEMBROKE POWER STATION, WEST PENNAR, PEMBROKE, PEMBROKESHIRE, SA71 5SS	Permit Number: EPRHP3820XU Permit Version: 1 Status: NEW ISSUED UNDER EPR 2010 Discharge Type: Production and Distribution of Electricity	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Catchment: - Approval Date: 2011-06-14T00:00:00.000Z
D	257m E	RWE GENERATION UK PLC, PEMBROKE POWER STATION SITE DRAIN, PEMBROKE POWER STATION, WEST PENNAR, PEMBROKE, PEMBROKESHIRE, SA71 5SS	Permit Number: HP3820XU Permit Version: - Status: Effective Discharge Type: -	Effluent Type: Trade Catchment: PENNAR GUT Approval Date: 2011-06-14T00:00:00.000Z
D	257m E	RWE Generation UK plc, PEMBROKE POWER STATION SITE DRAIN, Pembroke Power Station, WEST PENNAR, PEMBROKE, Pembrokeshire, SA71 5SS	Permit Number: HP3820XU Permit Version: 1 Status: Effective Discharge Type: -	Effluent Type: Trade Catchment: PENNAR GUT Approval Date: 2011-06-14T01:00:00.000Z

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 29**

ID	Location	Name	Status	Receiving Water	Authorised Substances
B	43m N	Pembroke Power Station Site Drainage	Active	Milford Haven, Any	Mercury (other), 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 29**

ID	Location	Name	Status	Receiving Water	Authorised Substances
B	43m N	Pembroke Power Station Site Drainage	Active	Milford Haven	Arsenic, Copper, Lead, Nickel, pH, Vanadium, Zinc

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	0

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

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

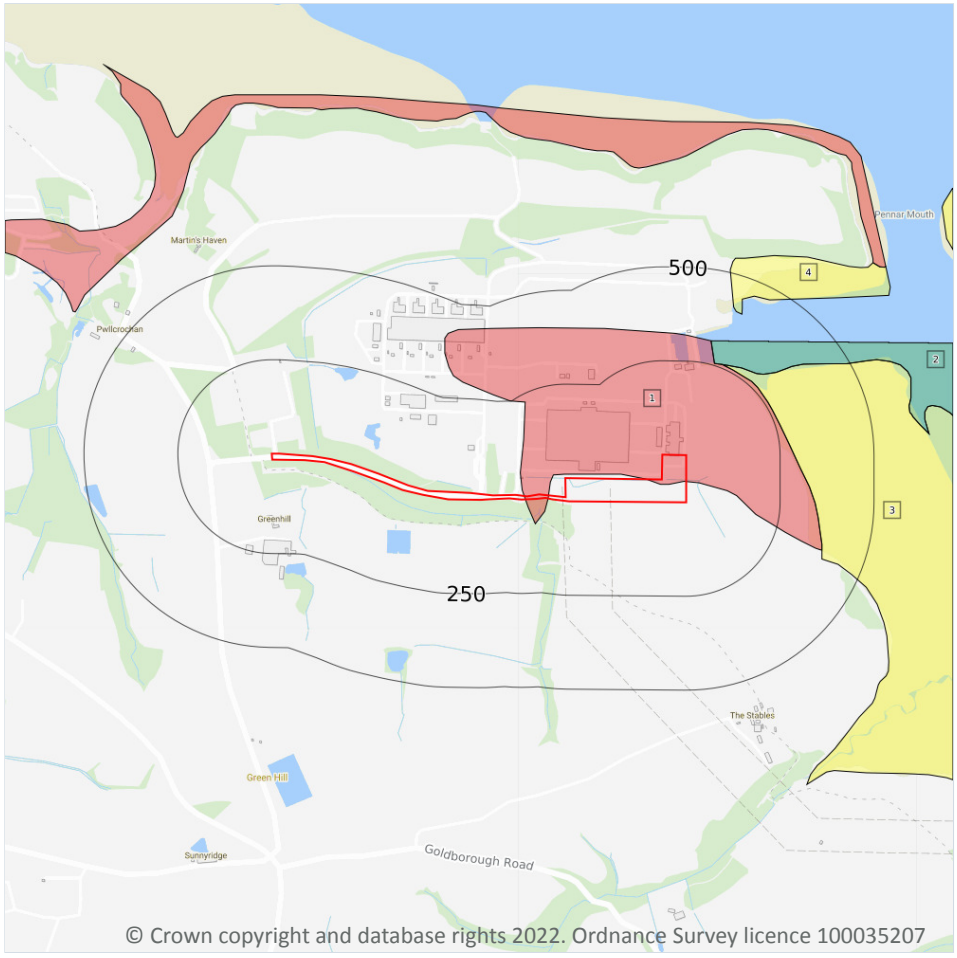
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

5.1 Superficial aquifer

Records within 500m	4

Aquifer status of groundwater held within superficial geology.

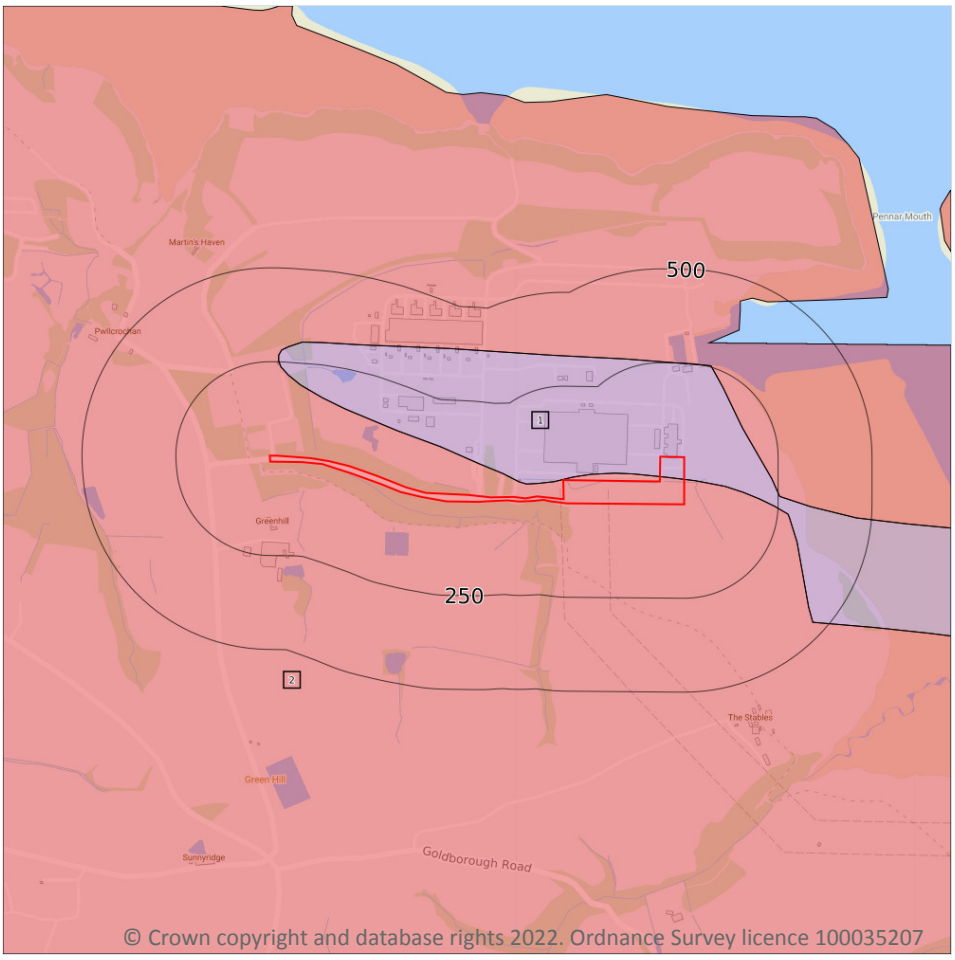
Features are displayed on the Hydrogeology map on **page 38**

ID	Location	Designation	Description
1	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
2	256m N	Unknown	Unknown

ID	Location	Designation	Description
3	258m NE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	404m 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

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m	2

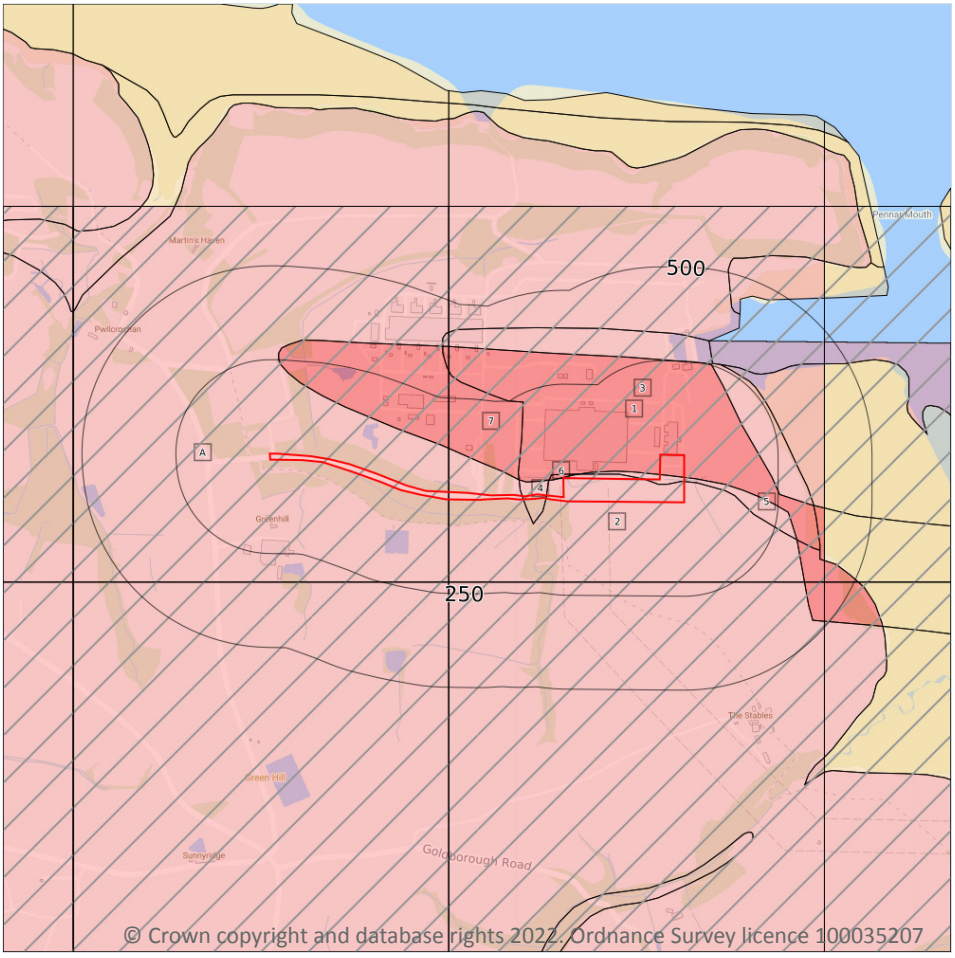
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 40**

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	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	7

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 42**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	**On site**	**Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: >70% Dilution value: >550mm/year**	**Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures**
2	**On site**	**Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: >70% Dilution value: >550mm/year**	**Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures**
4	**On site**	**Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: >70% Dilution value: >550mm/year**	**Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures**
5	**On site**	**Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: >70% Dilution value: >550mm/year**	**Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures**
A	**On site**	**Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: >70% Dilution value: >550mm/year**	**Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures**
6	1m N	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Principal Flow mechanism: Well connected fractures
7	41m N	Summary Classification: Principal bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m 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	2

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
3	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**22.0%**
A	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**1.0%**

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

5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones

Site Outline

Search buffers in metres (m)

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

5.6 Groundwater abstractions

Records within 2000m	0

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

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

5.7 Surface water abstractions

Records within 2000m	**18**

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 45**

ID	Location	Details	
1	254m N	Status: Active Licence No: 22/61/6/0156 Details: Non Evaporative Cooling - Low Direct Source: - Point: - Data Type: Line Name: - Easting: 193650 Northing: 202650	Annual Volume (m^3): 1,200,000,000 Max Daily Volume (m^3): 3,456,000 Original Application No: - Original Start Date: Oct 13 2014 12:00AM Expiry Date: Mar 31 2025 12:00AM Issue No: - Version Start Date: - Version End Date: -
A	423m S	Status: Active Licence No: 22/61/6/0144 Details: Unknown (Impounding) - Direct Source: - Point: - Data Type: Point Name: - Easting: 192880 Northing: 201810	Annual Volume (m^3): 0 Max Daily Volume (m^3): - Original Application No: - Original Start Date: Apr 1 2007 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
A	438m S	Status: Historical Licence No: 22/61/6/0064 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: RESERVOIR IN FIELD NO.0556 AT GREENHILL FARM. Data Type: Point Name: RWE Npower plc Easting: 192850 Northing: 201800	Annual Volume (m^3): 4546 Max Daily Volume (m^3): 4546 Original Application No: - Original Start Date: 19/07/1984 Expiry Date: - Issue No: 102 Version Start Date: 24/11/2011 Version End Date: -
A	438m S	Status: Active Licence No: 22/61/6/0064 Details: Spray Irrigation - Storage - High Direct Source: Reservoir South-East of Greenhill Farm. Point: - Data Type: Point Name: - Easting: 192850 Northing: 201800	Annual Volume (m^3): 4,546 Max Daily Volume (m^3): - Original Application No: - Original Start Date: Sep 2 2016 12:00AM Expiry Date: Mar 30 2025 12:00AM Issue No: - Version Start Date: - Version End Date: -

ID	Location	Details	
B	486m W	Status: Historical Licence No: 22/61/6/0081 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: RESERVOIR FILLED BY STREAM IN FIELD NO.2400,GREENHILL FARM Data Type: Point Name: RWE Npower plc Easting: 192050 Northing: 202220	Annual Volume (m^3): 6060 Max Daily Volume (m^3): 1206 Original Application No: - Original Start Date: 28/06/1988 Expiry Date: - Issue No: 102 Version Start Date: 24/11/2011 Version End Date: -
B	486m W	Status: Active Licence No: 22/61/6/0081 Details: Spray Irrigation - Storage - High Direct Source: Reservoir South-East of Greenhill Farm Point: - Data Type: Point Name: - Easting: 192050 Northing: 202220	Annual Volume (m^3): 6,060 Max Daily Volume (m^3): 1,255.20 Original Application No: - Original Start Date: Sep 2 2016 12:00AM Expiry Date: Mar 31 2025 12:00AM Issue No: - Version Start Date: - Version End Date: -
B	493m W	Status: Historical Licence No: 22/61/6/0081 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: RESERVOIR FILLED BY STREAM IN FIELD NO.2400,GREENHILL FARM Data Type: Point Name: Kenniford Easting: 192050 Northing: 202190	Annual Volume (m^3): 6059.8 Max Daily Volume (m^3): 1205.6 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 28/06/1988 Version End Date: -
B	510m W	Status: Active Licence No: 22/61/6/0147 Details: Unknown (Impounding) - Direct Source: - Point: - Data Type: Point Name: - Easting: 192020 Northing: 202250	Annual Volume (m^3): 0 Max Daily Volume (m^3): - Original Application No: - Original Start Date: Apr 1 2007 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1573m SW	Status: Historical Licence No: 22/61/6/0040 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: RESERVOIR FILLED BY UNNAMED STREAM Data Type: Point Name: Allen-Mirehouse Easting: 191090 Northing: 201680	Annual Volume (m^3): 7545.5 Max Daily Volume (m^3): 7545.5 Original Application No: - Original Start Date: 05/08/1997 Expiry Date: - Issue No: 100 Version Start Date: 31/03/2005 Version End Date: -

ID	Location	Details	
-	1573m SW	Status: Active Licence No: 22/61/6/0040 Details: Spray Irrigation - Storage - High Direct Source: - Point: - Data Type: Point Name: - Easting: 191090 Northing: 201680	Annual Volume (m^3): 7,545.50 Max Daily Volume (m^3): - Original Application No: - Original Start Date: Mar 31 2005 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1626m SW	Status: Historical Licence No: 22/61/6/0068 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: RESERVOIR CAPACITY 3MG IN FIELD NO. OS 8100 AT HOPLASS Data Type: Point Name: Kenniford Easting: 191820 Northing: 200860	Annual Volume (m^3): 13638 Max Daily Volume (m^3): 819 Original Application No: - Original Start Date: 24/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2007 Version End Date: -
-	1626m SW	Status: Active Licence No: 22/61/6/0068 Details: Spray Irrigation - Storage - High Direct Source: - Point: - Data Type: Point Name: - Easting: 191820 Northing: 200860	Annual Volume (m^3): 13,638 Max Daily Volume (m^3): 1,320 Original Application No: - Original Start Date: Apr 1 2007 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1636m SW	Status: Active Licence No: 22/61/6/0135 Details: Unknown (Impounding) - Direct Source: - Point: - Data Type: Point Name: - Easting: 191740 Northing: 200890	Annual Volume (m^3): 0 Max Daily Volume (m^3): - Original Application No: - Original Start Date: Apr 1 2007 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1640m SW	Status: Historical Licence No: 22/61/6/0068 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: RESERVOIR CAPACITY 3MG IN FIELD NO. OS 8100 AT HOPLASS Data Type: Point Name: Kenniford Easting: 191750 Northing: 200880	Annual Volume (m^3): 13638 Max Daily Volume (m^3): 818.28 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 24/05/1985 Version End Date: -

ID	Location	Details	
-	1677m S	Status: Historical Licence No: 22/61/6/0069 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: UNNAMED STREAM IN FIELD NO. 3553, TO FILL RESERVOIR Data Type: Point Name: Woods Easting: 191950 Northing: 200750	Annual Volume (m^3): 13638 Max Daily Volume (m^3): 13638 Original Application No: - Original Start Date: 21/08/1990 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2007 Version End Date: -
-	1897m SW	Status: Historical Licence No: 22/61/6/0117 Details: Spray Irrigation - Storage Direct Source: EAW Surface Water Point: INLAND WATER,RESERVOIR ON UNNAMED STREAM RHOSCROWTHER Data Type: Point Name: Woods Easting: 191120 Northing: 201050	Annual Volume (m^3): 15911 Max Daily Volume (m^3): 15911 Original Application No: - Original Start Date: 29/05/1996 Expiry Date: - Issue No: 100 Version Start Date: 31/03/2005 Version End Date: -
-	1897m SW	Status: Active Licence No: 22/61/6/0118 Details: Unknown (Impounding) - Direct Source: - Point: - Data Type: Point Name: - Easting: 191120 Northing: 201050	Annual Volume (m^3): 0 Max Daily Volume (m^3): - Original Application No: - Original Start Date: May 29 1996 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1897m SW	Status: Active Licence No: 22/61/6/0117 Details: Spray Irrigation - Storage - High Direct Source: - Point: - Data Type: Point Name: - Easting: 191120 Northing: 201050	Annual Volume (m^3): 15,911 Max Daily Volume (m^3): - Original Application No: - Original Start Date: Mar 31 2005 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	0

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

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

5.9 Source Protection Zones

Records within 500m	0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology

Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	33

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

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

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

ID	Location	Type of water feature	Ground level	Permanence	Name
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
B	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
C	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
C	3m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	12m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	22m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	26m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	29m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	35m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	37m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	37m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	39m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	42m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
C	47m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	47m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	52m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	56m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	74m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	77m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	77m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	78m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	79m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	85m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	91m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	94m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	214m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
O	214m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	225m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	237m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	239m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	240m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
P	241m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	21

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

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

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

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

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
D	**On site**	**Coastal catchment**	**Not part of a river WB catchment**	**163**	**Coastal streams of South Pembs and South Milford Haven - Pendine to Landshipping**	**Cleddau and Pembrokeshire Coastal Rivers**

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.

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

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
9	207m N	Transitional	MILFORD HAVEN INNER	GB531006114100	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**

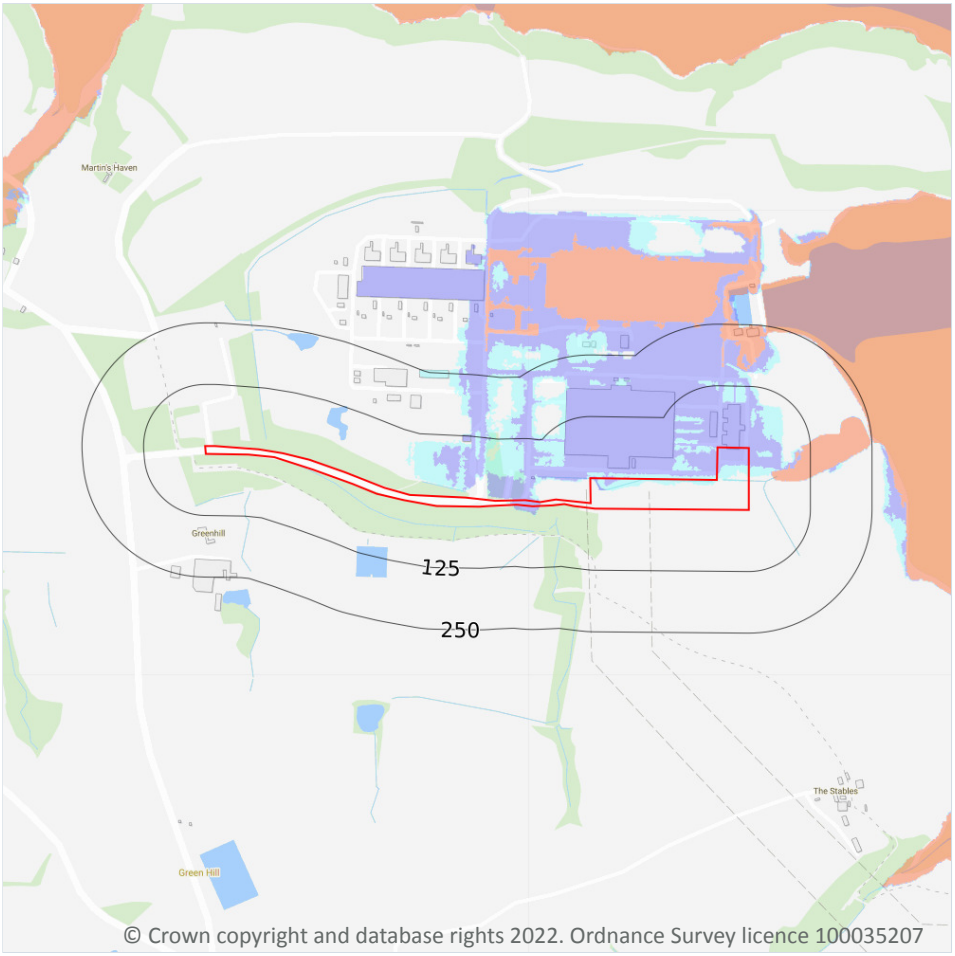
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

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

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
1	**On site**	**Pembrokeshire Carboniferous Limestone**	**GB41002G206000**	**Good**	**Good**	**Good**	**2017**

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

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m	80

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 56**

Distance	Flood risk category
On site	**Medium**
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	**0**

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	**0**

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

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

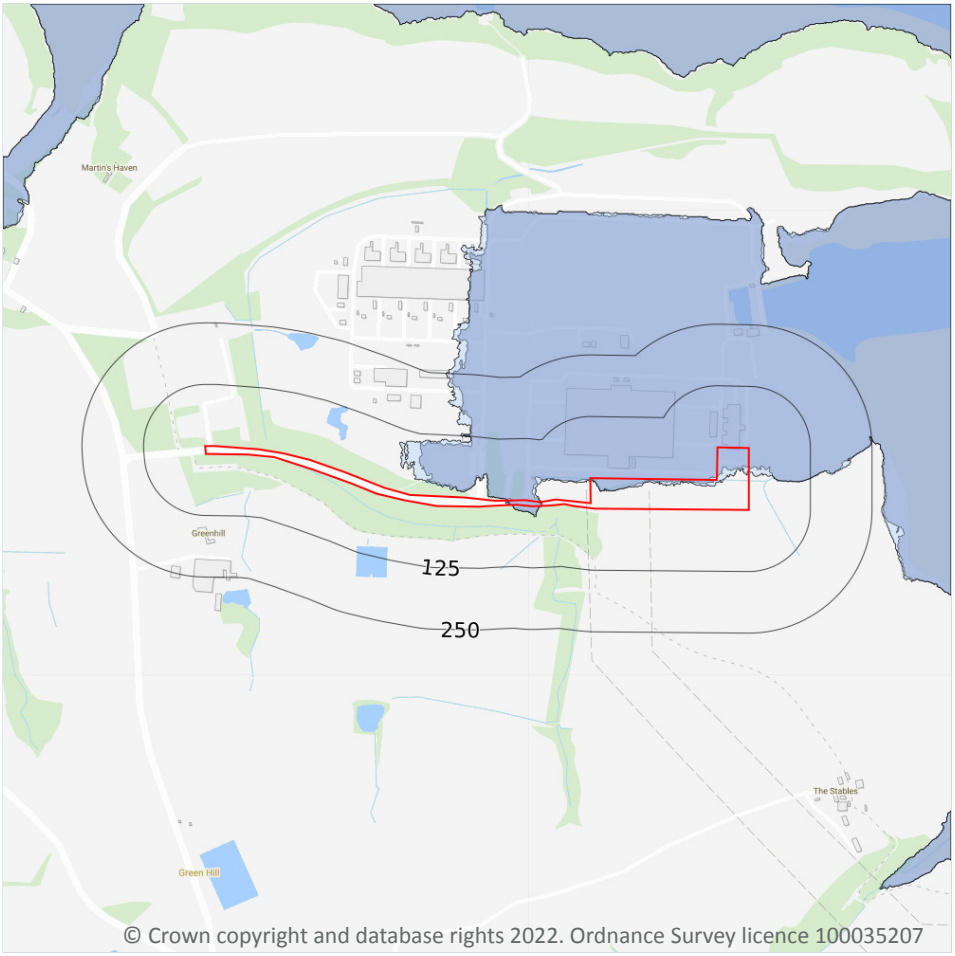
7.5 Flood Storage Areas

Records within 250m	**0**

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

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

River and coastal flooding - Flood Zones



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

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 56**

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

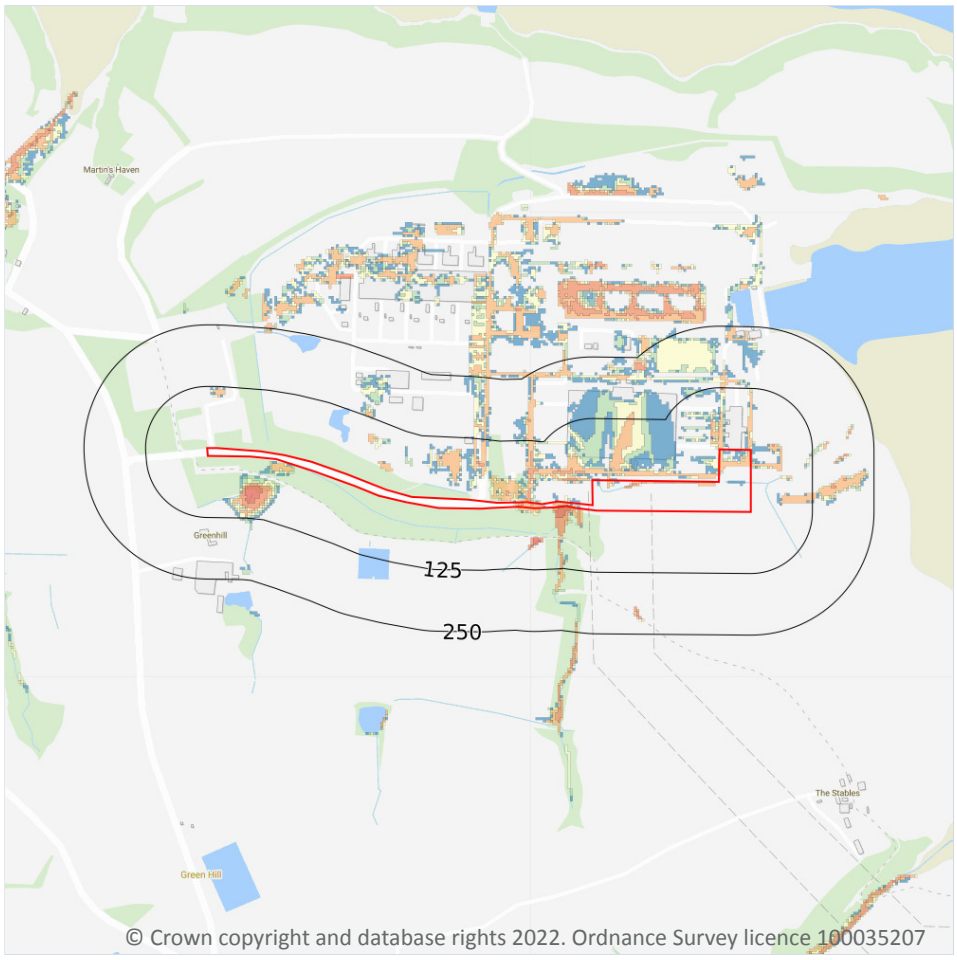
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 56**

Location	Type
On site	**Zone 3 - (Fluvial Models)**

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

8 Surface water flooding



Site Outline
Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site	**1 in 30 year, 0.3m - 1.0m**
Highest risk within 50m	**1 in 30 year, Greater than 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 60**

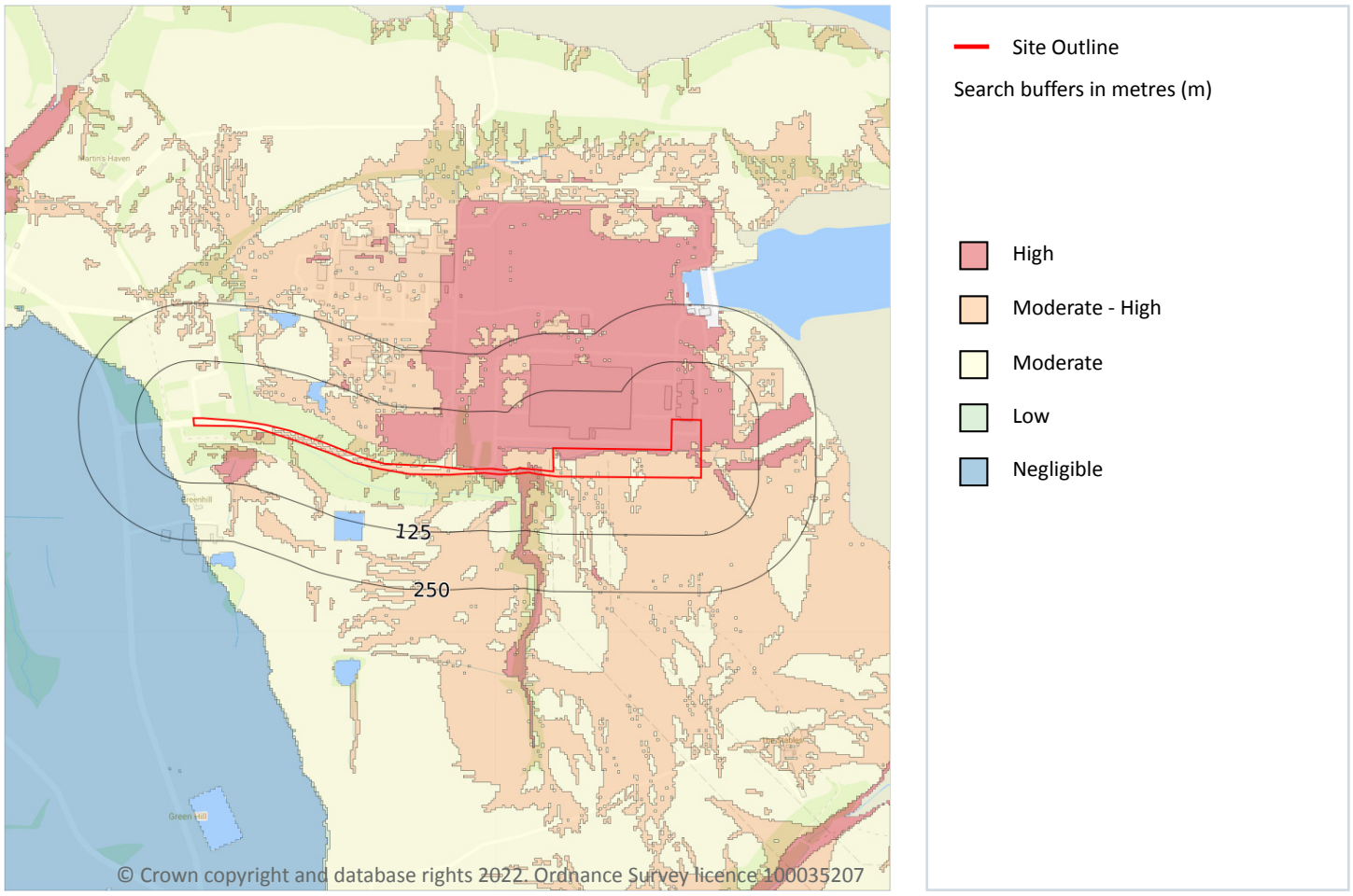
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



9.1 Groundwater flooding

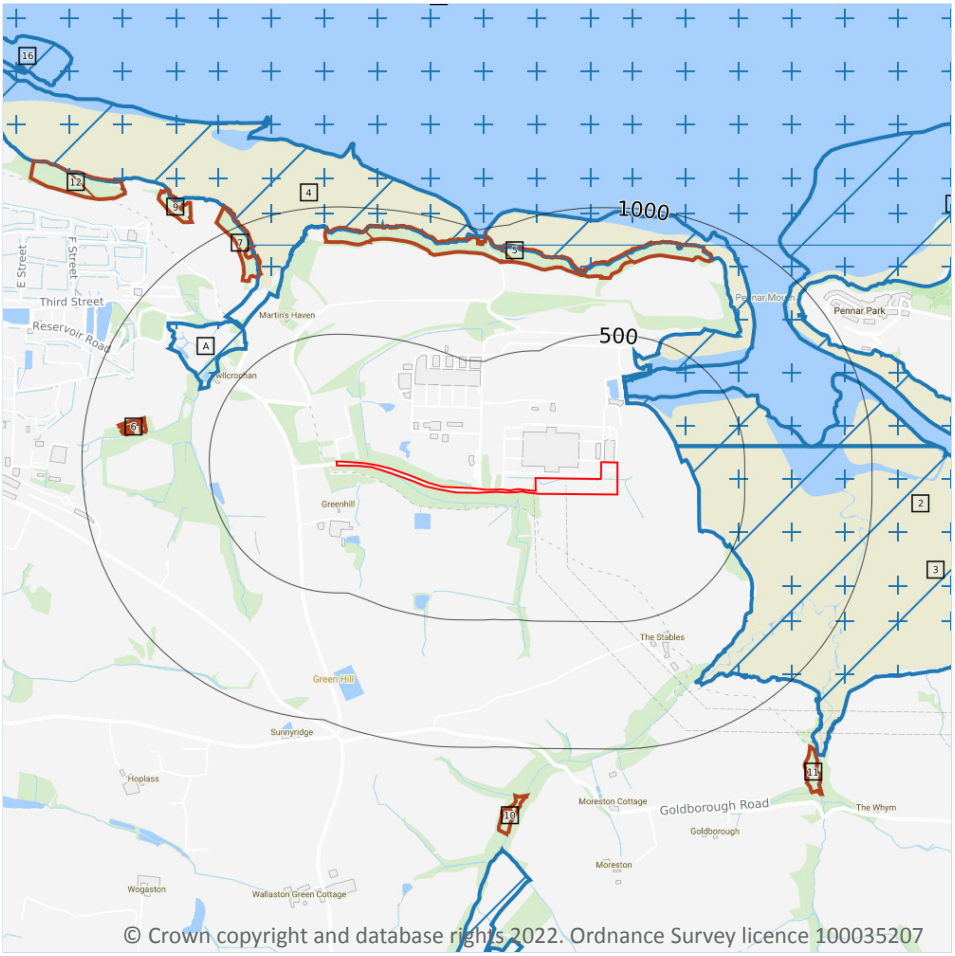
Highest risk on site	**High**
Highest risk within 50m	**High**

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 62**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Special Areas of Conservation (SAC)

Designated Ancient Woodland

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 63**

ID	Location	Name	Data source
1	235m N	MILFORD HAVEN WATERWAY	Natural Resources Wales

ID	Location	Name	Data source
3	241m E	MILFORD HAVEN WATERWAY	Natural Resources Wales
4	370m N	MILFORD HAVEN WATERWAY	Natural Resources Wales
A	568m NW	MILFORD HAVEN WATERWAY	Natural Resources Wales
13	1402m S	GWEUNYDD SOMERTON MEADOWS	Natural Resources Wales
16	1851m NW	MILFORD HAVEN WATERWAY	Natural Resources Wales
-	1919m N	MILFORD HAVEN WATERWAY	Natural Resources Wales

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	**3**

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

Features are displayed on the Environmental designations map on **page 63**

ID	Location	Name	Features of interest	Habitat description	Data source
2	235m N	Pembrokeshire Marine / Sir Benfro Forol	Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Lagoons; Shallow inlets and bays; Reefs; Atlantic salt meadows; Sea caves; Sea lamprey; River lamprey; Allis shad; Twaite shad; Bottlenose dolphin; Harbour porpoise; Otter; Grey seal; Shore dock.	Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Marine areas, Sea inlets	Natural Resources Wales

ID	Location	Name	Features of interest	Habitat description	Data source
A	568m NW	Pembrokeshire Marine / Sir Benfro Forol	Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Lagoons; Shallow inlets and bays; Reefs; Atlantic salt meadows; Sea caves; Sea lamprey; River lamprey; Allis shad; Twaite shad; Bottlenose dolphin; Harbour porpoise; Otter; Grey seal; Shore dock.	Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Marine areas, Sea inlets	Natural Resources Wales
8	852m N	Pembrokeshire Marine / Sir Benfro Forol	Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Lagoons; Shallow inlets and bays; Reefs; Atlantic salt meadows; Sea caves; Sea lamprey; River lamprey; Allis shad; Twaite shad; Bottlenose dolphin; Harbour porpoise; Otter; Grey seal; Shore dock.	Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Marine areas, Sea inlets	Natural Resources Wales

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	9

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 63**

ID	Location	Name	Woodland Type
5	724m N	Unknown	Ancient Semi Natural Woodland
6	758m W	Unknown	Ancient Semi Natural Woodland
7	788m NW	Unknown	Restored Ancient Woodland Site
9	1099m NW	Unknown	Restored Ancient Woodland Site
10	1186m S	Unknown	Ancient Semi Natural Woodland
11	1246m SE	Unknown	Ancient Semi Natural Woodland
12	1341m NW	Unknown	Restored Ancient Woodland Site
-	1795m W	Unknown	Ancient Semi Natural Woodland
-	1809m SE	Unknown	Ancient Semi Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	0

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

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m	0

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

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

SSSI Impact Zones and Units

10.17 SSSI Impact Risk Zones

Records on site	0

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.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0

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

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

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	0

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

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

11.5 Conservation Areas

Records within 250m	0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m	0

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

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

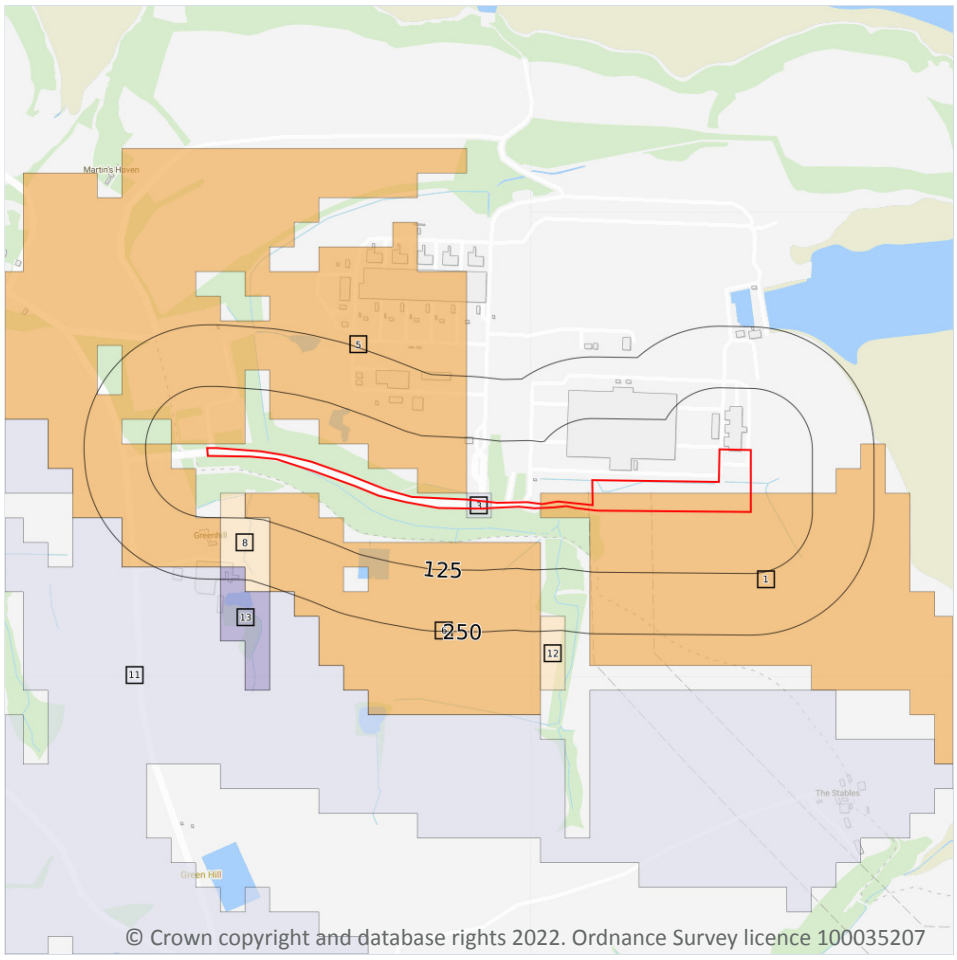
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Timber felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	8

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 72**

ID	Location	Classification	Description
1	**On site**	**Grade 2**	**Good quality agricultural land**
3	**On site**	**Grade 3b**	**Moderate quality agricultural land**
5	8m N	Grade 2	Good quality agricultural land

ID	Location	Classification	Description
6	39m S	Grade 2	Good quality agricultural land
8	75m S	Grade 3a	Good to moderate quality agricultural land
11	215m SW	Grade 3b	Moderate quality agricultural land
12	220m S	Grade 3a	Good to moderate quality agricultural land
13	224m S	Grade 4	Poor quality agricultural land

This data is sourced from Natural Resources Wales.

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

13.1 Priority Habitat Inventory

Records within 250m	0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability

Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 76**

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

This data is sourced from the British Geological Survey.

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

14.2 Artificial and made ground (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

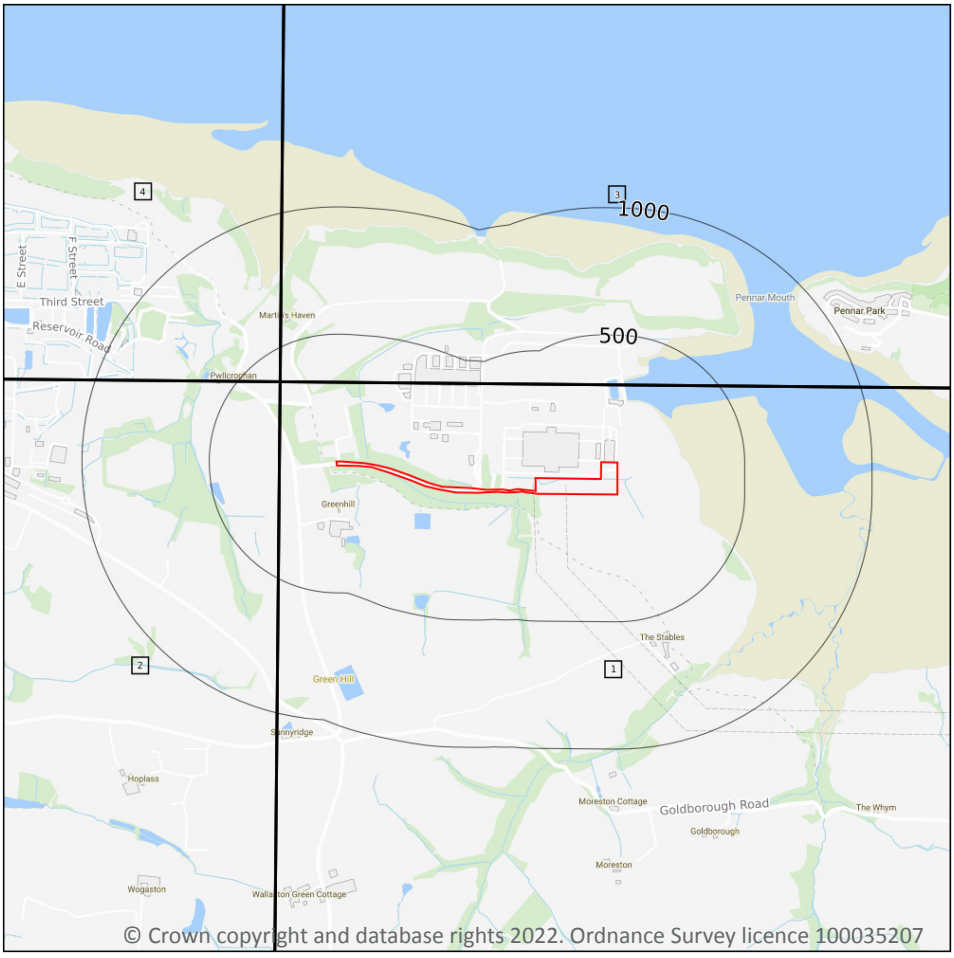
14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	4

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme. Where 50k data is not available, this area has been filled in with 625k scale data.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 80**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**No coverage**	**Full**	**Full**	**No coverage**	**EW244_245_pembroke_and_linney_head_v4**
2	224m W	No coverage	Full	Full	No coverage	EW244_245_pembroke_and_linney_head_v4
3	304m N	No coverage	Full	Full	No coverage	EW228_haverfordwest_v4

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
4	384m NW	No coverage	Full	Full	No coverage	EW227_milford_v4

This data is sourced from the British Geological Survey.

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

15.2 Artificial and made ground (50k)

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

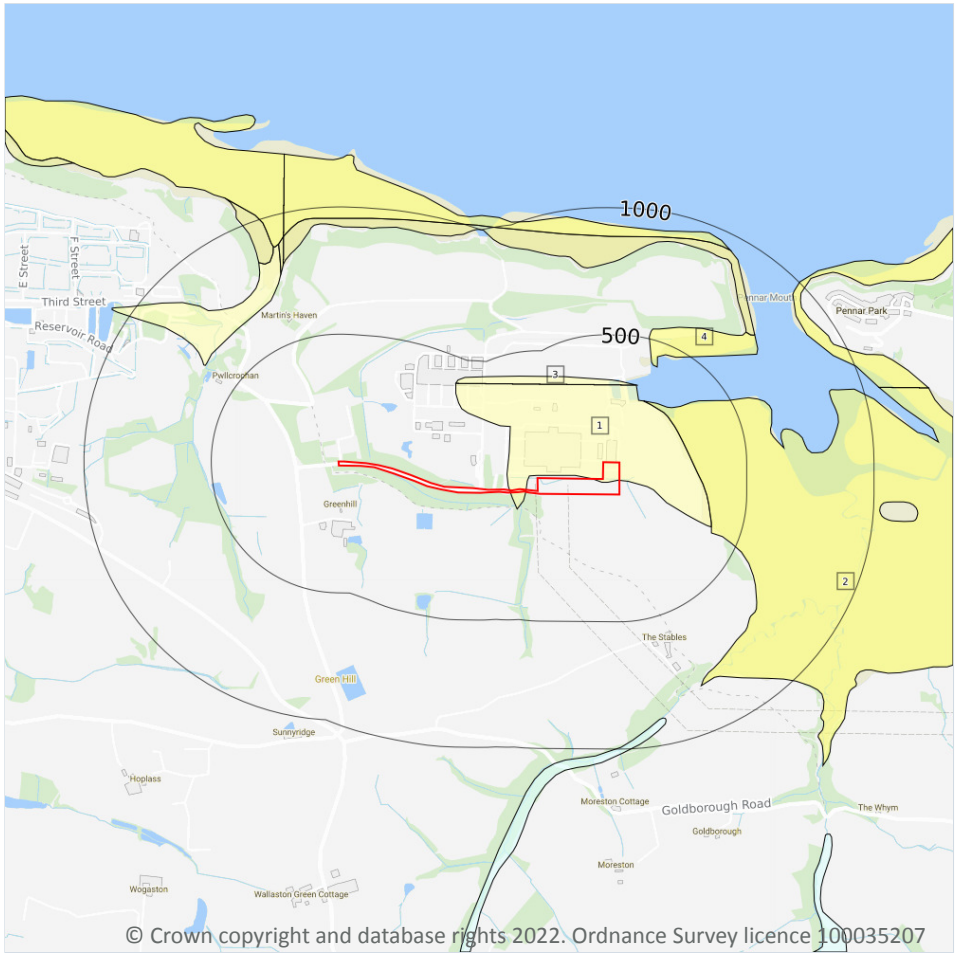
15.3 Artificial ground permeability (50k)

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 artificial 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 - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m **4**

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 83**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**ALV-XCZSV**	**ALLUVIUM**	**CLAY, SILT, SAND AND GRAVEL**
2	258m NE	TFD-XSZC	TIDAL FLAT DEPOSITS	SAND, SILT AND CLAY
3	304m N	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
4	404m N	TFD-XSZC	TIDAL FLAT DEPOSITS	SAND, SILT AND CLAY

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	1

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Intergranular**	**High**	**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.

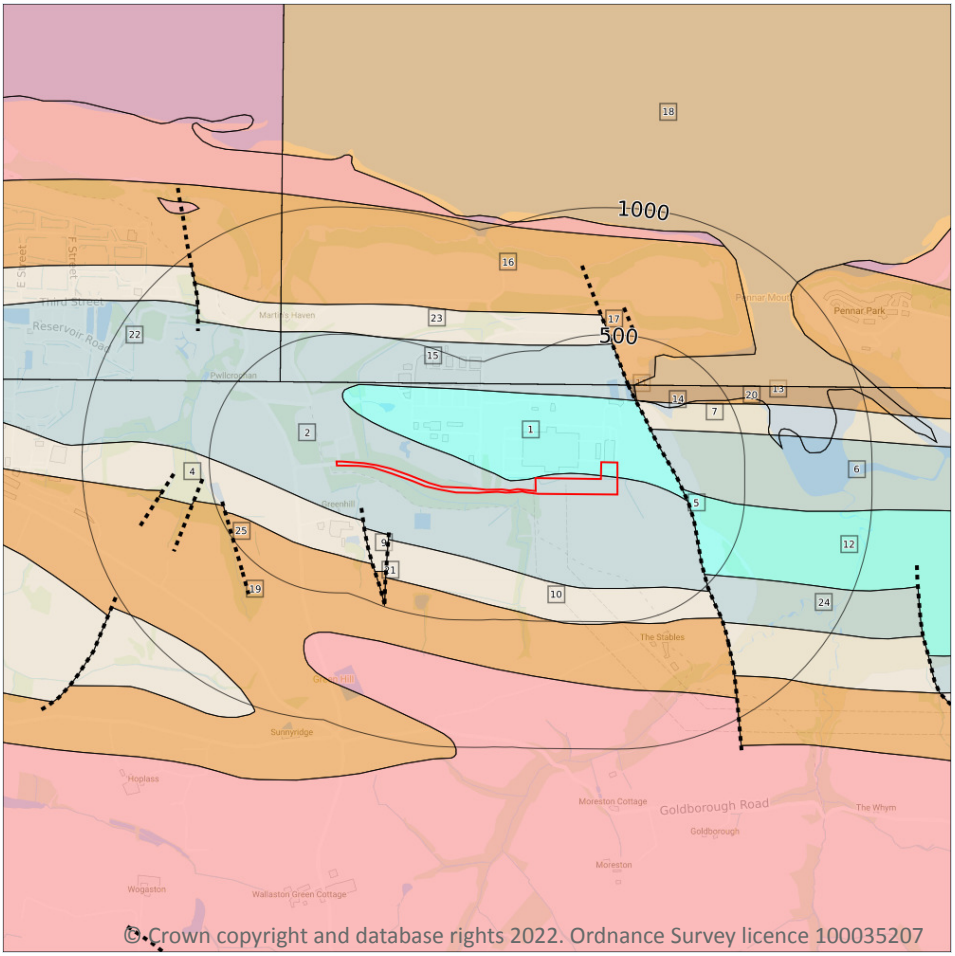
15.7 Landslip permeability (50k)

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 **20**

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 85**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**BGUO-LMST**	**BLACK ROCK SUBGROUP AND GULLY OOLITE FORMATION (UNDIFFERENTIATED) - LIMESTONE**	**TOURNAISIAN**
2	**On site**	**AVO-LSMD**	**AVON GROUP - LIMESTONE AND MUDSTONE, INTERBEDDED**	**TOURNAISIAN**
4	171m SW	SES-SDST	SKRINKLE SANDSTONE FORMATION - SANDSTONE	FAMENNIAN

ID	Location	LEX Code	Description	Rock age
6	174m NE	AVO-LSMD	AVON GROUP - LIMESTONE AND MUDSTONE, INTERBEDDED	TOURNAISIAN
7	184m NE	SES-SDST	SKRINKLE SANDSTONE FORMATION - SANDSTONE	FAMENNIAN
9	231m S	SES-SDST	SKRINKLE SANDSTONE FORMATION - SANDSTONE	FAMENNIAN
10	235m S	SES-SDST	SKRINKLE SANDSTONE FORMATION - SANDSTONE	FAMENNIAN
11	254m N	RDWC-CONG	RIDGEWAY CONGLOMERATE FORMATION - CONGLOMERATE	PRAGIAN
12	254m E	BGUO-LMST	BLACK ROCK SUBGROUP AND GULLY OOLITE FORMATION (UNDIFFERENTIATED) - LIMESTONE	TOURNAISIAN
13	256m N	RDWC-CONG	RIDGEWAY CONGLOMERATE FORMATION - CONGLOMERATE	PRAGIAN
14	260m N	SES-SDST	SKRINKLE SANDSTONE FORMATION - SANDSTONE	FAMENNIAN
15	304m N	AVO-LSMD	AVON GROUP - LIMESTONE AND MUDSTONE, INTERBEDDED	TOURNAISIAN
16	307m N	RDWC-CONG	RIDGEWAY CONGLOMERATE FORMATION - CONGLOMERATE	PRAGIAN
18	311m N	COB-SDST	COSHESTON GROUP - SANDSTONE	LOCHKOVIAN
19	339m S	RDWC-CONG	RIDGEWAY CONGLOMERATE FORMATION - CONGLOMERATE	PRAGIAN
20	357m NE	RDWC-CONG	RIDGEWAY CONGLOMERATE FORMATION - CONGLOMERATE	PRAGIAN
21	368m S	RDWC-CONG	RIDGEWAY CONGLOMERATE FORMATION - CONGLOMERATE	PRAGIAN
22	384m NW	AVO-LSMD	AVON GROUP - LIMESTONE AND MUDSTONE, INTERBEDDED	TOURNAISIAN
23	462m N	SES-SDST	SKRINKLE SANDSTONE FORMATION - SANDSTONE	FAMENNIAN
24	465m SE	AVO-LSMD	AVON GROUP - LIMESTONE AND MUDSTONE, INTERBEDDED	TOURNAISIAN

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**	**Low**
On site	**Fracture**	**Very High**	**High**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	5

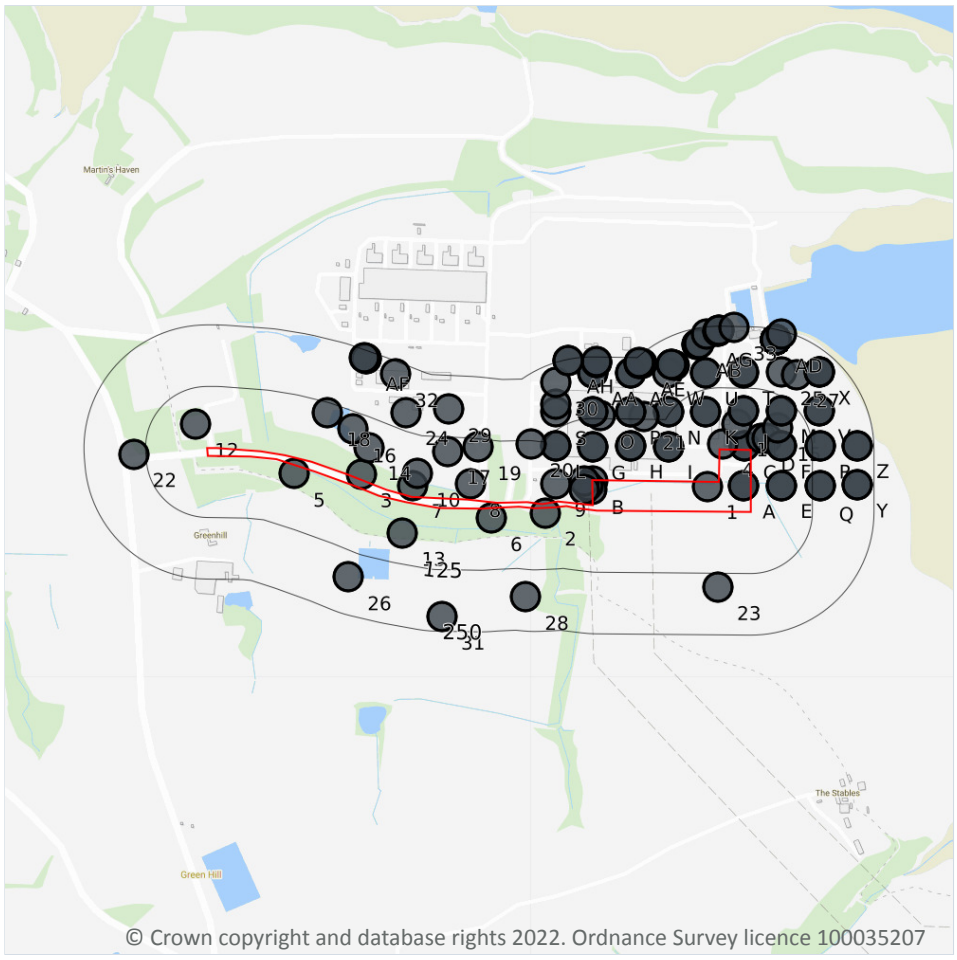
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 85**

ID	Location	Category	Description
3	164m S	FAULT	Fault, observed, displacement unknown
5	174m NE	FAULT	Fault, observed, displacement unknown
8	222m S	FAULT	Fault, inferred, displacement unknown
17	307m N	FAULT	Fault, inferred, displacement unknown
25	472m W	FAULT	Fault, observed, displacement unknown

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

Confidential

0 - 10m

10 - 30m

30m+

Unknown

16.1 BGS Boreholes

Records within 250m	176

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 88**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	193538 202264	PEMBROKE POWER STATION 300	-	Y	N/A
A	On site	193612 202265	PEMBROKE POWER STATION 301	-	Y	N/A
A	On site	193612 202265	PEMBROKE POWER STATION 301A	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
B	**On site**	**193305 202274**	**PEMBROKE POWER STATION A91**	**-**	**Y**	**N/A**
B	1m W	193304 202258	PEMBROKE POWER STATION A92	-	Y	N/A
C	8m N	193613 202346	PEMBROKE POWER STATION 308A	-	Y	N/A
C	8m N	193613 202346	PEMBROKE POWER STATION 308	-	Y	N/A
B	8m W	193297 202265	PEMBROKE POWER STATION A60	-	Y	N/A
2	10m S	193210 202210	ANGLE BAY. 6	-	Y	N/A
3	11m N	192836 202289	PEMBROKE POWER STATION 270	-	Y	N/A
4	11m N	193570 202350	MILFORD HAVEN POWER STATION 6	-	Y	N/A
B	16m W	193289 202275	PEMBROKE POWER STATION A94	-	Y	N/A
5	17m S	192700 202290	ANGLE BAY. 4	-	Y	N/A
B	17m W	193288 202258	PEMBROKE POWER STATION A93	-	Y	N/A
6	20m S	193100 202200	PEMBROKE P.S. JNV.	-	Y	N/A
7	23m N	192940 202266	PEMBROKE POWER STATION 269	-	Y	N/A
8	32m N	193057 202269	PEMBROKE POWER STATION 268	-	Y	N/A
D	32m NE	193649 202361	PEMBROKE POWER STATION A62	-	Y	N/A
9	37m N	193230 202270	ANGLE BAY. A	-	Y	N/A
D	41m NE	193660 202361	PEMBROKE POWER STATION A61	-	Y	N/A
10	48m N	192950 202290	ANGLE BAY. 5B	-	Y	N/A
11	53m N	193599 202391	PEMBROKE POWER STATION A53	-	Y	N/A
12	54m NW	192500 202390	ANGLE BAY. 4A	-	Y	N/A
13	62m S	192920 202170	ANGLE BAY. 5A	-	Y	N/A
E	62m E	193689 202266	PEMBROKE POWER STATION 302A	-	Y	N/A
E	62m E	193689 202266	PEMBROKE POWER STATION 302	-	Y	N/A
F	63m E	193689 202346	PEMBROKE POWER STATION 307	-	Y	N/A
F	63m E	193689 202346	PEMBROKE POWER STATION 307A	-	Y	N/A
14	67m N	192851 202343	PEMBROKE POWER STATION 287	-	Y	N/A
G	68m N	193305 202345	PEMBROKE POWER STATION 311	-	Y	N/A
G	68m N	193305 202345	PEMBROKE POWER STATION 311A	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
H	71m N	193382 202346	PEMBROKE POWER STATION 310A	-	Y	N/A
H	71m N	193382 202346	PEMBROKE POWER STATION 310	-	Y	N/A
I	71m N	193459 202345	PEMBROKE POWER STATION 309A	-	Y	N/A
I	71m N	193459 202345	PEMBROKE POWER STATION 309	-	Y	N/A
15	72m NE	193682 202383	PEMBROKE POWER STATION A65	-	Y	N/A
J	79m N	193612 202417	PEMBROKE POWER STATION 315	-	Y	N/A
J	79m N	193612 202417	PEMBROKE POWER STATION 315A	-	Y	N/A
K	82m N	193535 202416	PEMBROKE POWER STATION 227	-	Y	N/A
K	82m N	193535 202416	PEMBROKE POWER STATION 227A	-	Y	N/A
16	91m N	192820 202380	MILFORD HAVEN POWER STATION 1	-	Y	N/A
17	96m N	193012 202335	PEMBROKE POWER STATION 286	-	Y	N/A
L	101m NW	193231 202346	PEMBROKE POWER STATION 312	-	Y	N/A
L	101m NW	193231 202346	PEMBROKE POWER STATION 312A	-	Y	N/A
M	102m NE	193689 202418	PEMBROKE POWER STATION 316A	-	Y	N/A
M	102m NE	193689 202418	PEMBROKE POWER STATION 316	-	Y	N/A
18	105m N	192768 202413	PEMBROKE POWER STATION 266	-	Y	N/A
19	109m N	193074 202344	PEMBROKE POWER STATION 267	-	Y	N/A
20	118m N	193180 202350	MILFORD HAVEN POWER STATION 2	-	Y	N/A
N	129m NW	193459 202415	PEMBROKE POWER STATION 314	-	Y	N/A
N	129m NW	193459 202415	PEMBROKE POWER STATION 314A	-	Y	N/A
21	130m N	193409 202405	PEMBROKE POWER STATION A52	-	Y	N/A
O	132m N	193322 202408	PEMBROKE POWER STATION A51	-	Y	N/A
O	138m N	193305 202415	PEMBROKE POWER STATION 313A	-	Y	N/A
O	138m N	193305 202415	PEMBROKE POWER STATION 313	-	Y	N/A
P	140m N	193382 202415	PEMBROKE POWER STATION 228	-	Y	N/A
P	140m N	193382 202415	PEMBROKE POWER STATION 228A	-	Y	N/A
Q	140m E	193767 202266	PEMBROKE POWER STATION 303	-	Y	N/A
Q	140m E	193767 202266	PEMBROKE POWER STATION 303A	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
R	141m E	193767 202346	PEMBROKE POWER STATION 306A	-	Y	N/A
R	141m E	193767 202346	PEMBROKE POWER STATION 306	-	Y	N/A
22	150m W	192374 202329	PEMBROKE POWER STATION 271	-	Y	N/A
23	153m S	193560 202060	MILFORD HAVEN POWER STATION 22	-	Y	N/A
S	157m NW	193231 202415	PEMBROKE POWER STATION 246	-	Y	N/A
T	157m N	193612 202495	PEMBROKE POWER STATION 322	-	Y	N/A
T	158m N	193612 202496	PEMBROKE POWER STATION 321A	-	Y	N/A
U	159m N	193535 202495	PEMBROKE POWER STATION 226A	-	Y	N/A
U	159m N	193535 202495	PEMBROKE POWER STATION 226	-	Y	N/A
V	160m NE	193765 202418	PEMBROKE POWER STATION 317A	-	Y	N/A
V	160m NE	193765 202418	PEMBROKE POWER STATION 317	-	Y	N/A
24	161m N	192927 202414	PEMBROKE POWER STATION 283	-	Y	N/A
25	170m N	193688 202496	PEMBROKE POWER STATION 225	-	Y	N/A
S	171m NW	193230 202430	ANGLE BAY. B	-	Y	N/A
26	176m S	192810 202080	MILFORD HAVEN POWER STATION 20	-	Y	N/A
27	179m NE	193720 202490	MILFORD HAVEN POWER STATION 32	-	Y	N/A
28	180m S	193170 202040	MILFORD HAVEN POWER STATION 21	-	Y	N/A
29	182m N	193014 202421	PEMBROKE POWER STATION 284	-	Y	N/A
W	189m NW	193457 202495	PEMBROKE POWER STATION 322A	-	Y	N/A
W	194m NW	193472 202510	Pembroke CCGT Power Station: Ground Investigation RW10	-	Y	N/A
W	198m NW	193466 202512	Pembroke CCGT Power Station: Ground Investigation TPW10	-	Y	N/A
W	198m NW	193466 202512	Pembroke CCGT Power Station: Ground Investigation W10	-	Y	N/A
X	210m NE	193765 202496	PEMBROKE POWER STATION 321	-	Y	N/A
X	211m NE	193765 202497	PEMBROKE POWER STATION 320	-	Y	N/A
X	211m NE	193765 202497	PEMBROKE POWER STATION 320A	-	Y	N/A
30	212m N	193230 202475	PEMBROKE POWER STATION 247	-	Y	N/A
Y	216m E	193843 202267	PEMBROKE POWER STATION 304A	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
Y	216m E	193843 202267	PEMBROKE POWER STATION 304	-	Y	N/A
Z	217m E	193843 202347	PEMBROKE POWER STATION 305	-	Y	N/A
Z	217m E	193843 202347	PEMBROKE POWER STATION 305A	-	Y	N/A
AA	217m N	193305 202494	PEMBROKE POWER STATION 323A	-	Y	N/A
AA	217m N	193305 202494	PEMBROKE POWER STATION 323	-	Y	N/A
AB	218m N	193517 202552	Pembroke CCGT Power Station: Ground Investigation TPW11	-	Y	N/A
AB	218m N	193517 202552	Pembroke CCGT Power Station: Ground Investigation W11	-	Y	N/A
AB	218m N	193521 202553	Pembroke CCGT Power Station: Ground Investigation RW11	-	Y	N/A
AC	220m N	193382 202495	PEMBROKE POWER STATION 229A	-	Y	N/A
AC	220m N	193382 202495	PEMBROKE POWER STATION 229	-	Y	N/A
31	220m S	193000 202000	PEMBROKE POWER STATION A43	-	Y	N/A
32	226m N	192906 202492	PEMBROKE POWER STATION 285	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A3	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A6	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A13	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A16	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A30	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A32	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A35	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A38	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A39	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A41	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A46	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A47	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A48	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A49	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A50	-	Y	N/A

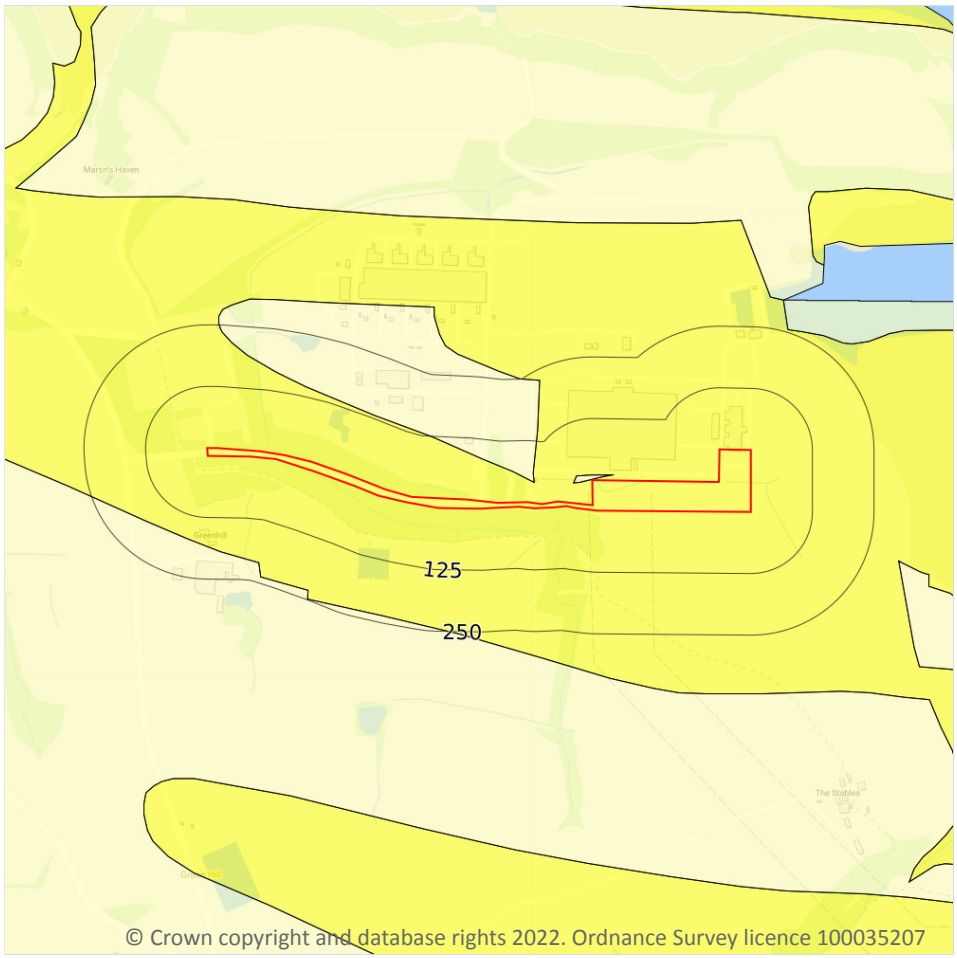
ID	Location	Grid reference	Name	Length	Confidential	Web link
AD	229m N	193678 202561	PEMBROKE POWER STATION A56	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A59	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A70	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A96	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A100	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A102	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION CN1	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION CN2	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION CS1	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION CS2	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION CW1	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A1	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A5	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A12	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A20	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A21	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A34	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A101	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A45	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION CS3	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A2	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A8A	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A18	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A4	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A8	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A11	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A14	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A15	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
AD	229m N	193678 202561	PEMBROKE POWER STATION A17	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A31	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A33	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A40	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A42	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A44	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A66	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A67	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A68	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A69	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A71	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION 329A	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A95	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION A97	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION CE	-	Y	N/A
AD	229m N	193678 202561	PEMBROKE POWER STATION CE1	-	Y	N/A
AE	235m NW	193405 202513	Pembroke CCGT Power Station: Ground Investigation RW9A	-	Y	N/A
AF	235m N	192847 202524	Pembroke CCGT Power Station: Ground Investigation RW1	-	Y	N/A
AF	235m N	192847 202524	Pembroke CCGT Power Station: Ground Investigation TPRW1	-	Y	N/A
AF	236m N	192842 202526	Pembroke CCGT Power Station: Ground Investigation W1	-	Y	N/A
AG	236m N	193537 202574	PEMBROKE POWER STATION 240	-	Y	N/A
AE	238m N	193400 202513	Pembroke CCGT Power Station: Ground Investigation TPW9	-	Y	N/A
AE	238m N	193400 202513	Pembroke CCGT Power Station: Ground Investigation W9	-	Y	N/A
AA	239m N	193314 202515	Pembroke CCGT Power Station: Ground Investigation TPW8	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
AA	239m N	193314 202515	Pembroke CCGT Power Station: Ground Investigation W8	-	Y	N/A
AE	240m NW	193401 202516	Pembroke CCGT Power Station: Ground Investigation RW9	-	Y	N/A
AG	240m N	193560 202579	Pembroke CCGT Power Station: Ground Investigation RW12A	-	Y	N/A
AG	240m N	193560 202579	Pembroke CCGT Power Station: Ground Investigation RW12	-	Y	N/A
AA	242m N	193314 202518	Pembroke CCGT Power Station: Ground Investigation RW8	-	Y	N/A
AG	242m N	193561 202581	Pembroke CCGT Power Station: Ground Investigation TPW12	-	Y	N/A
AG	242m N	193561 202581	Pembroke CCGT Power Station: Ground Investigation W12	-	Y	N/A
AD	243m N	193688 202573	PEMBROKE POWER STATION 239	-	Y	N/A
AH	248m N	193255 202519	Pembroke CCGT Power Station: Ground Investigation TPW7	-	Y	N/A
AH	248m N	193255 202519	Pembroke CCGT Power Station: Ground Investigation W7	-	Y	N/A
33	249m N	193593 202587	Pembroke CCGT Power Station: Ground Investigation RW13	-	Y	N/A

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	3

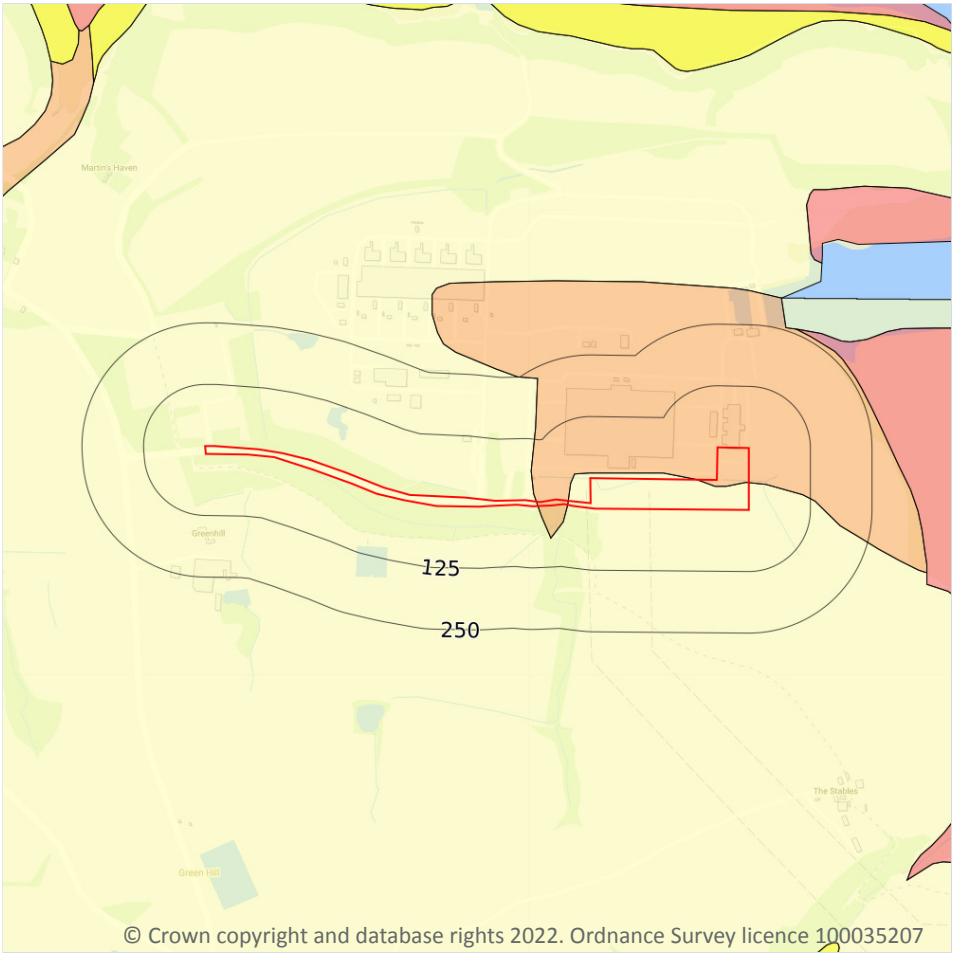
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 96**

Location	Hazard rating	Details
On site	**Very low**	**Ground conditions predominantly low plasticity.**
2m N	Negligible	Ground conditions predominantly non-plastic.
42m N	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	2

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.

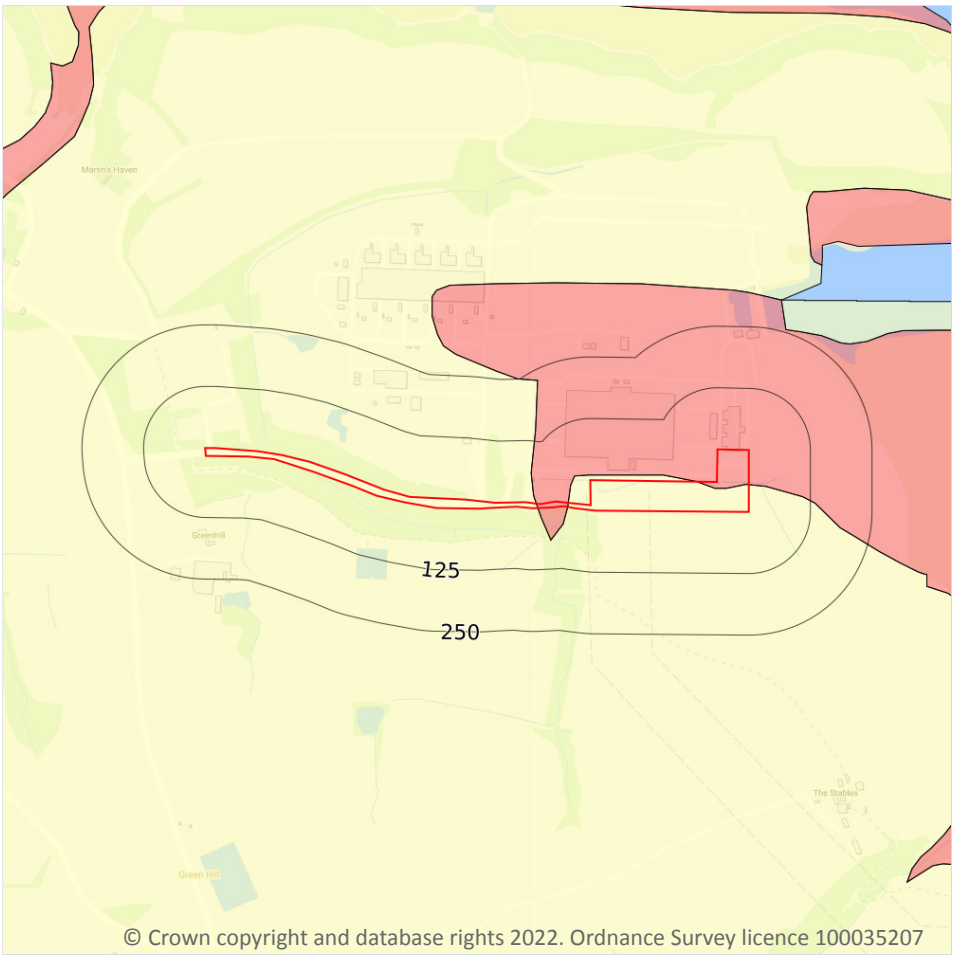
Features are displayed on the Natural ground subsidence - Running sands map on **page 98**

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	**Low**	**Running sand conditions may be 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



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	2

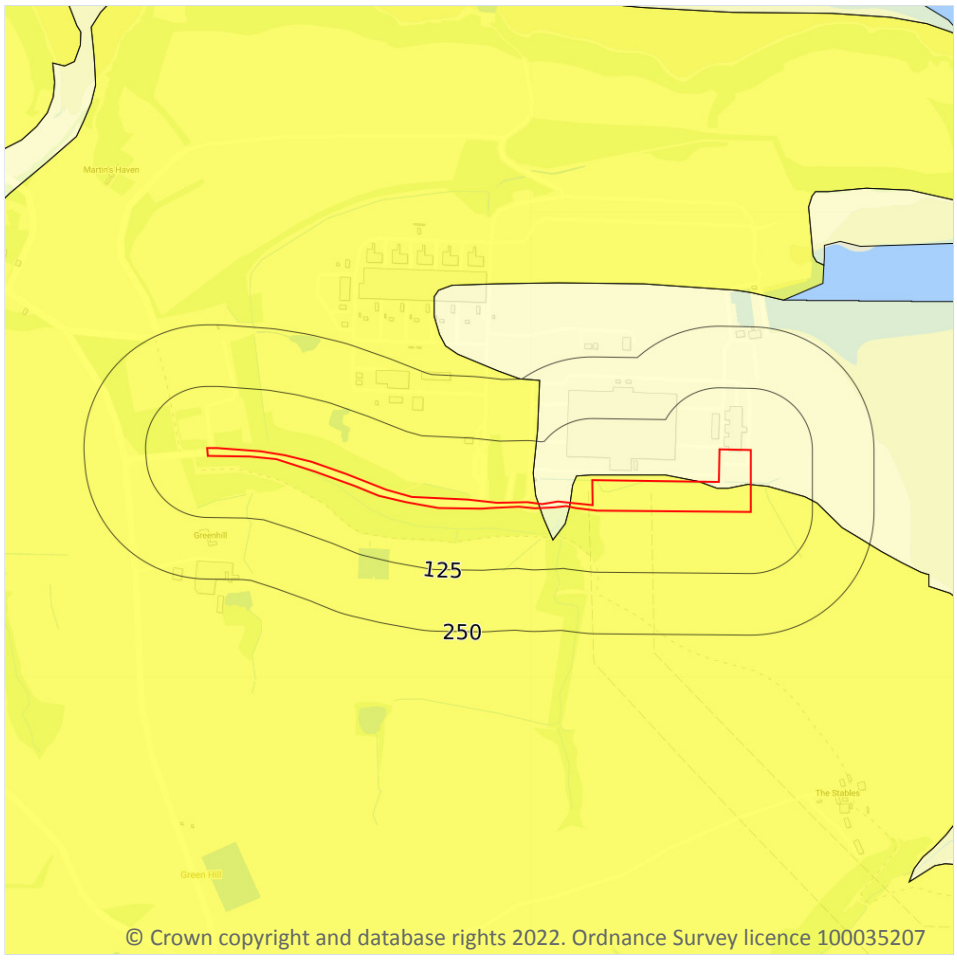
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 100**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**
On site	**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



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	2

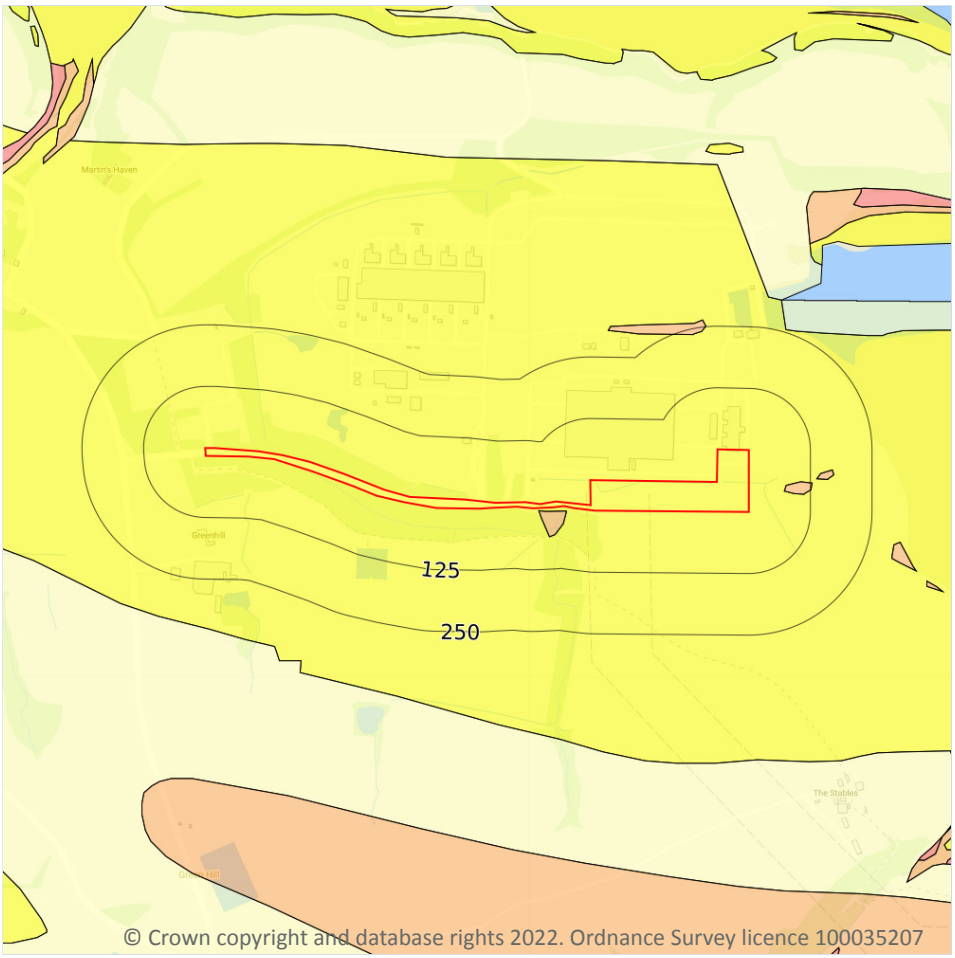
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 102**

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.

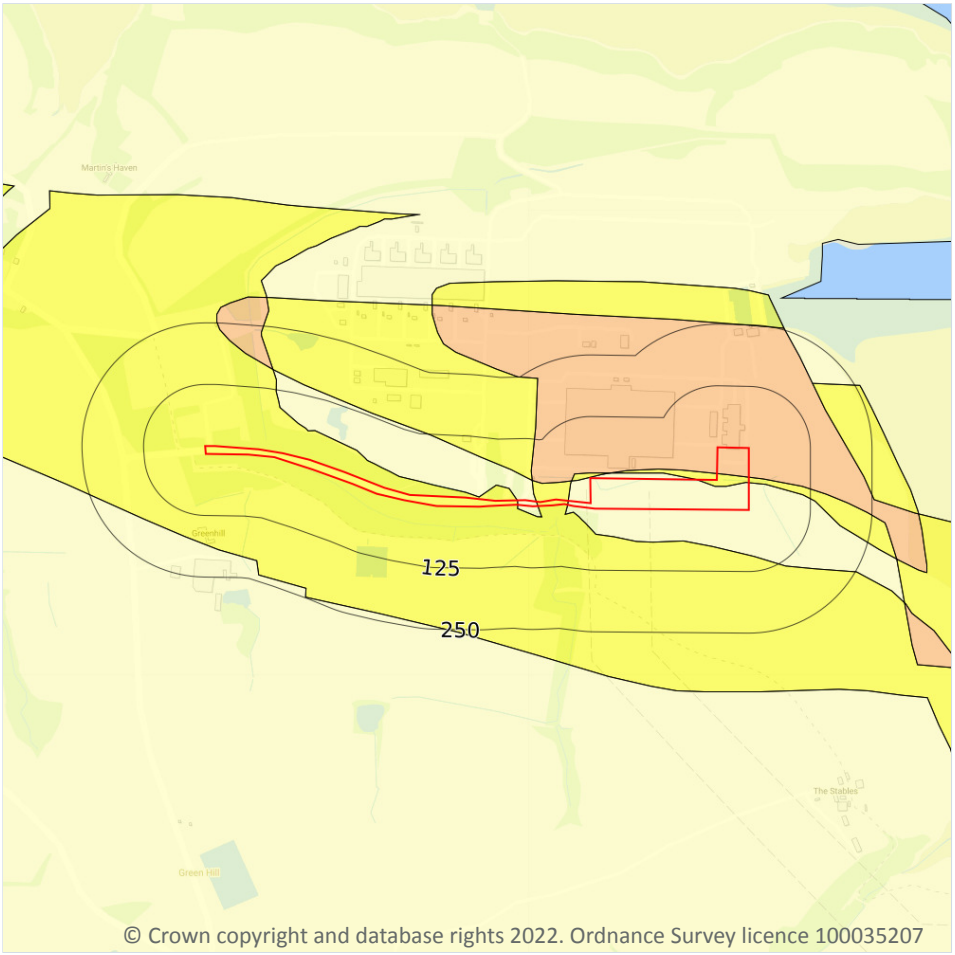
Features are displayed on the Natural ground subsidence - Landslides map on **page 103**

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.**

Location	Hazard rating	Details
6m S	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



Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	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.

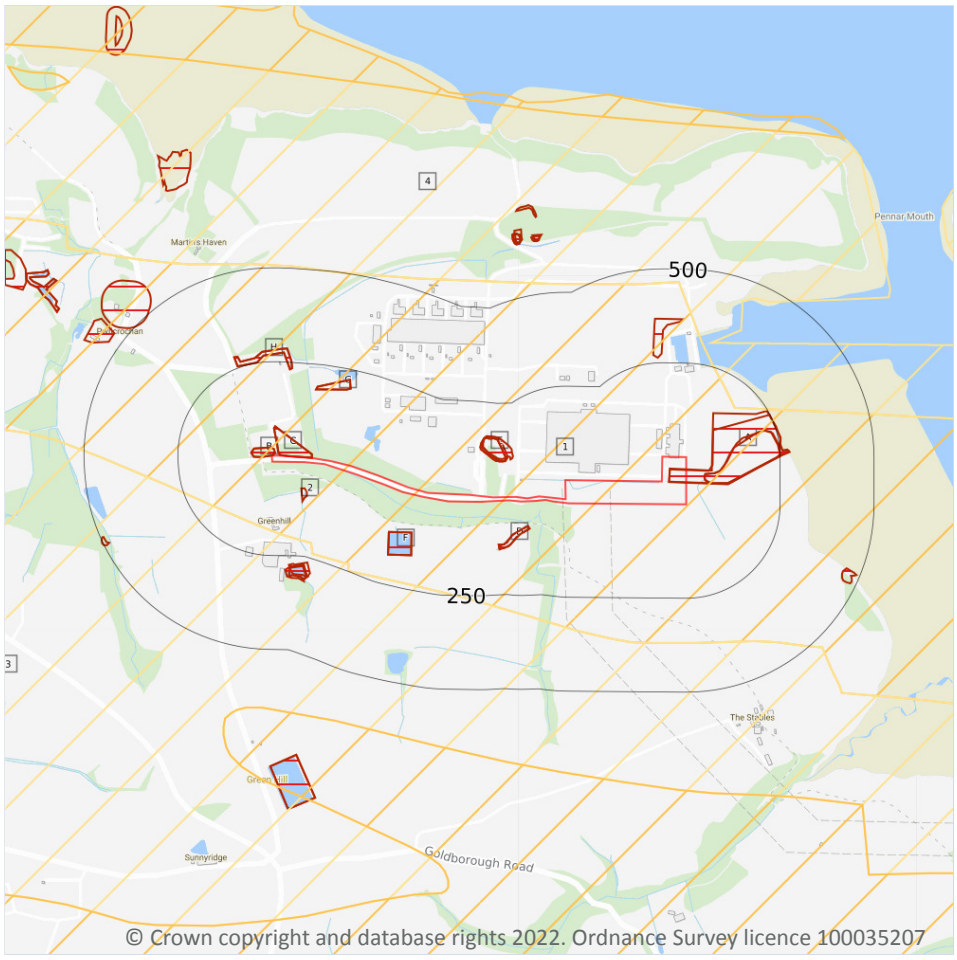
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 105**

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.**

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.**
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.**
2m N	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.
42m N	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.

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



Site Outline

Search buffers in metres (m)

Natural cavities (Area)

Natural cavities (Point)

BritPits

Surface ground workings

Underground workings

Historical Mineral Planning Areas

Mining Cavities

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	21

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 107**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Sewage Works**	**1994**	**1:10000**
A	**On site**	**Sewage Works**	**1975**	**1:10000**
B	0m N	Unspecified Ground Workings	1994	1:10000
B	0m N	Unspecified Ground Workings	1975	1:10000
C	1m N	Unspecified Pit	1994	1:10000
C	1m N	Unspecified Pit	1975	1:10000
A	48m E	Unspecified Pit	1994	1:10000
A	50m E	Unspecified Pit	1975	1:10000
D	66m S	Unspecified Ground Workings	1994	1:10000
D	66m S	Unspecified Ground Workings	1975	1:10000
2	70m S	Pond	1963	1:10560
E	95m N	Unspecified Pit	1963	1:10560
E	95m N	Unspecified Pit	1948	1:10560
E	95m N	Unspecified Pit	1906	1:10560
F	100m S	Reservoir	1994	1:10000
F	100m S	Reservoir	1975	1:10000
E	100m N	Unspecified Quarry	1864	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
G	183m N	Unspecified Pit	1994	1:10000
G	183m N	Unspecified Pit	1975	1:10000
H	231m N	Unspecified Ground Workings	1994	1:10000
H	231m N	Unspecified Ground Workings	1975	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	**0**

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

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	**0**

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	**5**

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 107**

ID	Location	Name	Commodity	Class	Likelihood
1	**On site**	**Not available**	**Vein Mineral**	**B**	**Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered**

ID	Location	Name	Commodity	Class	Likelihood
3	171m SW	Not available	Vein Mineral	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
4	184m NE	Not available	Vein Mineral	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
10	634m S	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
13	885m N	Not available	Vein Mineral	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or 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	**0**

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

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site	**0**

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	**0**

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

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0

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

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.

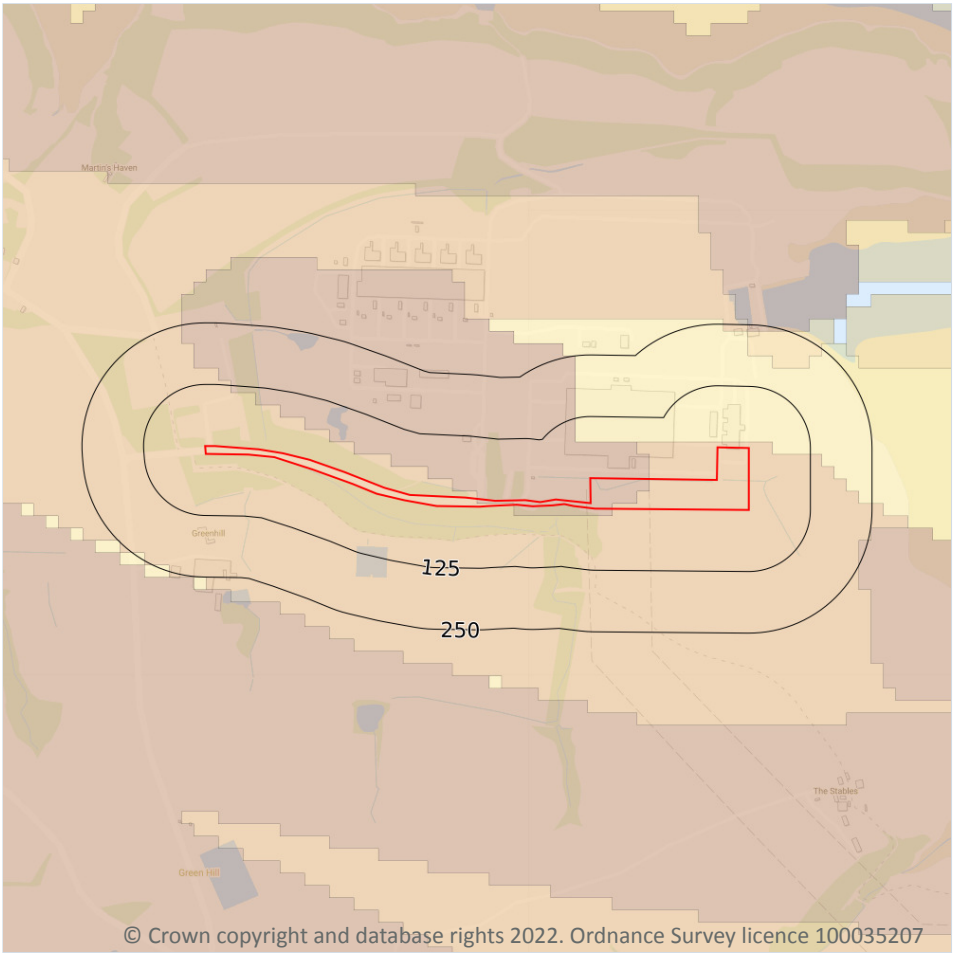
18.13 Clay mining

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



Site Outline

Search buffers in metres (m)

Greater than 30%

Between 10% and 30%

Between 5% and 10%

Between 3% and 5%

Between 1% and 3%

Less than 1%

19.1 Radon

Records on site	2

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 112**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Between 10% and 30%**	**Full**
On site	**Between 5% and 10%**	**Basic**

This data is sourced from the British Geological Survey and Public Health England.

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m	11

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 km^2. 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 km^2; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
2m N	15 mg/kg	No data	100 mg/kg	50 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
4m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
10m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
23m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
42m NW	15 mg/kg	No data	100 mg/kg	50 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

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 km^2.

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	0

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.

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	0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

Data providers

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

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