



Plate 09: North facing, land towards north site boundary



Plate 10: North-west facing, land towards north and west site boundary



Plate 11: West facing, west site boundary composition



Plate 12: North facing, access road to north site boundary



Appendix C

GROUNDSURE INSIGHTS REPORT

HyHaul Swansea 794-PLN-WWP-00294

Order Details

Date: 18/10/2024
Your ref: PO24-0880
Our Ref: GS-9KN-PJR-OAT-YC4

Site Details

Location: 271487 193538
Area: 0.97 ha
Authority: [Castell-nedd Port Talbot - Neath Port Talbot County Borough](#) ↗



[Summary of findings](#)

[p. 2 >](#)

[Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.14 >](#)

[Insight User Guide](#) ↗

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Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	7	3	38	42	-
19 >	1.2 >	Historical tanks >	0	0	4	3	-
19 >	1.3 >	Historical energy features >	0	0	4	2	-
20 >	1.4 >	Historical petrol stations >	0	0	5	0	-
21	1.5	Historical garages	0	0	0	0	-
21	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
22 >	2.1 >	Historical industrial land uses >	7	3	49	54	-
27 >	2.2 >	Historical tanks >	0	0	5	3	-
27 >	2.3 >	Historical energy features >	0	0	4	2	-
28 >	2.4 >	Historical petrol stations >	0	0	6	0	-
28	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
29	3.1	Active or recent landfill	0	0	0	0	-
29	3.2	Historical landfill (BGS records)	0	0	0	0	-
30	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
30	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
30	3.5	Historical waste sites	0	0	0	0	-
30	3.6	Licensed waste sites	0	0	0	0	-
30 >	3.7 >	Waste exemptions >	0	0	0	1	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
32 >	4.1 >	Recent industrial land uses >	0	0	8	-	-
33 >	4.2 >	Current or recent petrol stations >	0	0	1	1	-
33	4.3	Electricity cables	0	0	0	0	-
34	4.4	Gas pipelines	0	0	0	0	-
34	4.5	Sites determined as Contaminated Land	0	0	0	0	-



34	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
34	4.7	Regulated explosive sites	0	0	0	0	-
34	4.8	Hazardous substance storage/usage	0	0	0	0	-
35	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
35	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
35 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	1	0	-
35	4.12	Radioactive Substance Authorisations	0	0	0	0	-
36 >	4.13 >	Licensed Discharges to controlled waters >	0	0	1	0	-
36	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
36	4.15	Pollutant release to public sewer	0	0	0	0	-
36	4.16	List 1 Dangerous Substances	0	0	0	0	-
37 >	4.17 >	List 2 Dangerous Substances >	0	0	1	0	-
37 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	0	4	-
38	4.19	Pollution inventory substances	0	0	0	0	-
38	4.20	Pollution inventory waste transfers	0	0	0	0	-
38	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
39 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
41 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
42 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
43	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
43	5.5	Groundwater vulnerability- local information	None (within 0m)				
44	5.6	Groundwater abstractions	0	0	0	0	0
45 >	5.7 >	Surface water abstractions >	0	0	0	0	8
47	5.8	Potable abstractions	0	0	0	0	0
47	5.9	Source Protection Zones	0	0	0	0	-
47	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
48 >	6.1 >	Water Network (OS MasterMap) >	0	11	21	-	-



51 >	6.2 >	Surface water features >	0	7	12	-	-
51 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
52	6.4	WFD Surface water bodies	0	0	0	-	-
52 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
53 >	7.1 >	Risk of flooding from rivers and the sea >	Low (within 50m)				
54	7.2	Historical Flood Events	0	0	0	-	-
54	7.3	Flood Defences	0	0	0	-	-
54	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
54	7.5	Flood Storage Areas	0	0	0	-	-
55 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
56	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
57 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
59 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
60 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	1	2	7
61 >	10.2 >	Conserved wetland sites (Ramsar sites) >	0	0	0	2	1
64 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	0	2	1
65	10.4	Special Protection Areas (SPA)	0	0	0	0	0
65 >	10.5 >	National Nature Reserves (NNR) >	0	0	0	2	2
66 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	1	0
66 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	16
67	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
68	10.12	Proposed Ramsar sites	0	0	0	0	0



68	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
69	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
70	10.17	SSSI Impact Risk Zones	0	-	-	-	-
70	10.18	SSSI Units	0	0	0	0	0
Page	Section	<u>Visual and cultural designations</u> >	On site	0-50m	50-250m	250-500m	500-2000m
71	11.1	World Heritage Sites	0	0	0	-	-
72	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
72	11.3	National Parks	0	0	0	-	-
72 >	11.4 >	<u>Listed Buildings</u> >	0	0	1	-	-
73	11.5	Conservation Areas	0	0	0	-	-
73	11.6	Scheduled Ancient Monuments	0	0	0	-	-
73	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	<u>Agricultural designations</u> >	On site	0-50m	50-250m	250-500m	500-2000m
74 >	12.1 >	<u>Agricultural Land Classification</u> >	Grade 5 (within 250m)				
75	12.2	Open Access Land	0	0	0	-	-
75	12.3	Tree Felling Licences	0	0	0	-	-
75	12.4	Environmental Stewardship Schemes	0	0	0	-	-
76	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	<u>Habitat designations</u>	On site	0-50m	50-250m	250-500m	500-2000m
77	13.1	Priority Habitat Inventory	0	0	0	-	-
77	13.2	Habitat Networks	0	0	0	-	-
77	13.3	Open Mosaic Habitat	0	0	0	-	-
77	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	<u>Geology 1:10,000 scale</u> >	On site	0-50m	50-250m	250-500m	500-2000m
78 >	14.1 >	<u>10k Availability</u> >	Identified (within 500m)				
79 >	14.2 >	<u>Artificial and made ground (10k)</u> >	2	0	4	6	-
81 >	14.3 >	<u>Superficial geology (10k)</u> >	1	2	3	2	-



82	14.4	Landslip (10k)	0	0	0	0	-
83 >	14.5 >	Bedrock geology (10k) >	1	2	5	5	-
84 >	14.6 >	Bedrock faults and other linear features (10k) >	0	1	9	4	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
86 >	15.1 >	50k Availability >	Identified (within 500m)				
87 >	15.2 >	Artificial and made ground (50k) >	1	0	2	1	-
88 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
89 >	15.4 >	Superficial geology (50k) >	1	2	3	2	-
90 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
90	15.6	Landslip (50k)	0	0	0	0	-
90	15.7	Landslip permeability (50k)	None (within 50m)				
91 >	15.8 >	Bedrock geology (50k) >	1	2	5	6	-
92 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
93 >	15.10 >	Bedrock faults and other linear features (50k) >	0	1	9	4	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
94 >	16.1 >	BGS Boreholes >	0	0	26	-	-
Page	Section	Natural ground subsidence >					
96 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
97 >	17.2 >	Running sands >	Low (within 50m)				
99 >	17.3 >	Compressible deposits >	High (within 50m)				
100 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
101 >	17.5 >	Landslides >	Very low (within 50m)				
102 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
104 >	18.1 >	BritPits >	0	0	0	4	-
105 >	18.2 >	Surface ground workings >	1	1	24	-	-
107 >	18.3 >	Underground workings >	0	0	2	2	7
107	18.4	Underground mining extents	0	0	0	0	-
108 >	18.5 >	Historical Mineral Planning Areas >	0	0	0	1	-



108 >	18.6 >	Non-coal mining >	0	0	0	0	2
109	18.7	JPB mining areas	None (within 0m)				
109	18.8	The Coal Authority non-coal mining	0	0	0	0	-
109	18.9	Researched mining	0	0	0	0	-
109	18.10	Mining record office plans	0	0	0	0	-
110	18.11	BGS mine plans	0	0	0	0	-
110 >	18.12 >	Coal mining >	Identified (within 0m)				
110	18.13	Brine areas	None (within 0m)				
110	18.14	Gypsum areas	None (within 0m)				
110	18.15	Tin mining	None (within 0m)				
111	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
112	19.1	Natural cavities	0	0	0	0	-
112	19.2	Mining cavities	0	0	0	0	0
112	19.3	Reported recent incidents	0	0	0	0	-
112	19.4	Historical incidents	0	0	0	0	-
113	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
114 >	20.1 >	Radon >	Between 10% and 30% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
116 >	21.1 >	BGS Estimated Background Soil Chemistry >	6	2	-	-	-
117 >	21.2 >	BGS Estimated Urban Soil Chemistry >	6	7	-	-	-
117	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
118	22.1	Underground railways (London)	0	0	0	-	-
118	22.2	Underground railways (Non-London)	0	0	0	-	-
119	22.3	Railway tunnels	0	0	0	-	-
119 >	22.4 >	Historical railway and tunnel features >	5	2	19	-	-
120	22.5	Royal Mail tunnels	0	0	0	-	-



120 >	22.6 >	Historical railways >	0	2	1	-	-
121 >	22.7 >	Railways >	0	6	2	-	-
121	22.8	Crossrail 1	0	0	0	0	-
121	22.9	Crossrail 2	0	0	0	0	-
122	22.10	HS2	0	0	0	0	-

Recent aerial photograph



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Capture Date: 08/04/2023

Site Area: 0.97ha



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Date: 18 October 2024

Recent site history - 2020 aerial photograph



Capture Date: 14/04/2020

Site Area: 0.97ha



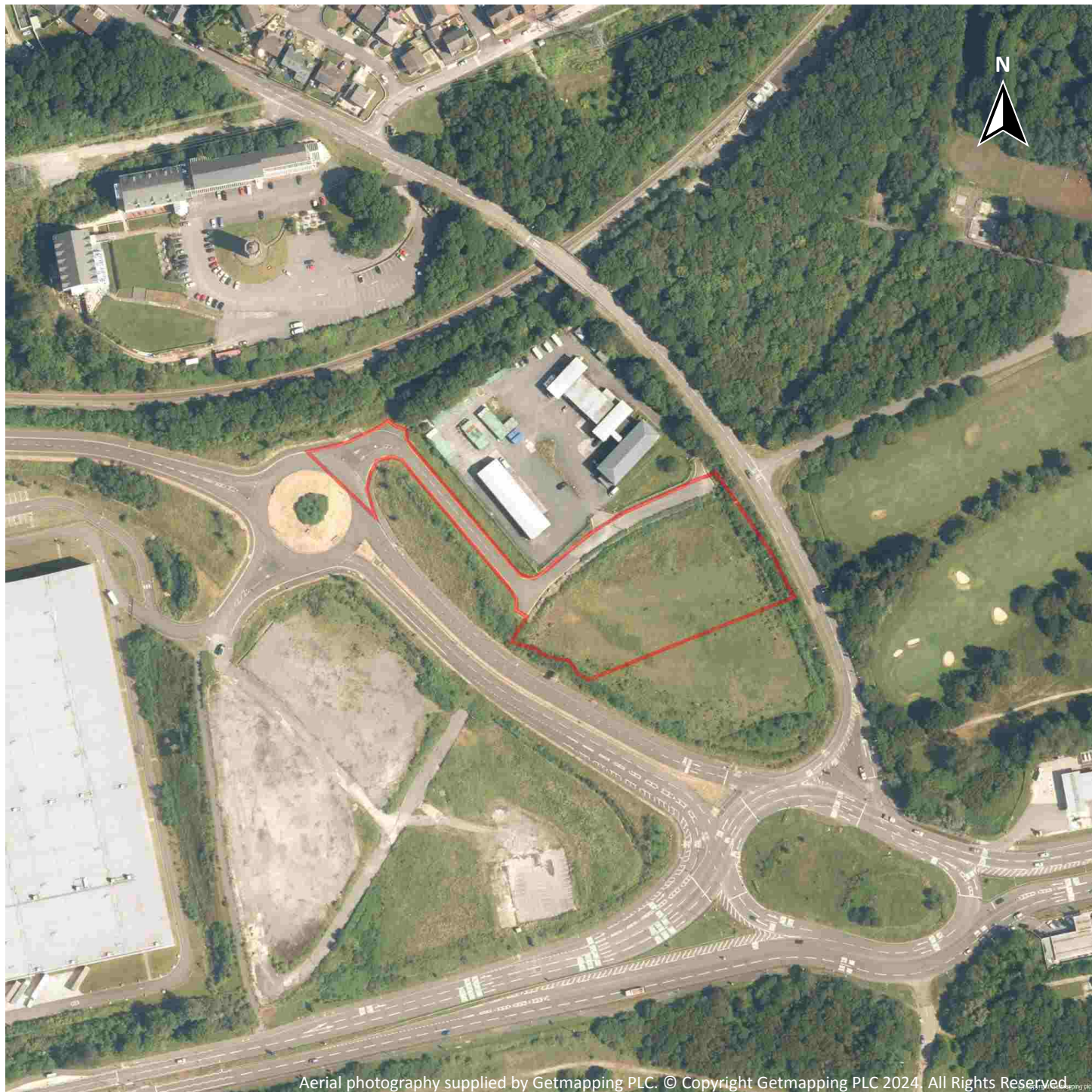
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Date: 18 October 2024

Recent site history - 2014 aerial photograph



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Capture Date: 23/07/2014

Site Area: 0.97ha



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Date: 18 October 2024

Recent site history - 2009 aerial photograph



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Capture Date: 12/10/2009

Site Area: 0.97ha



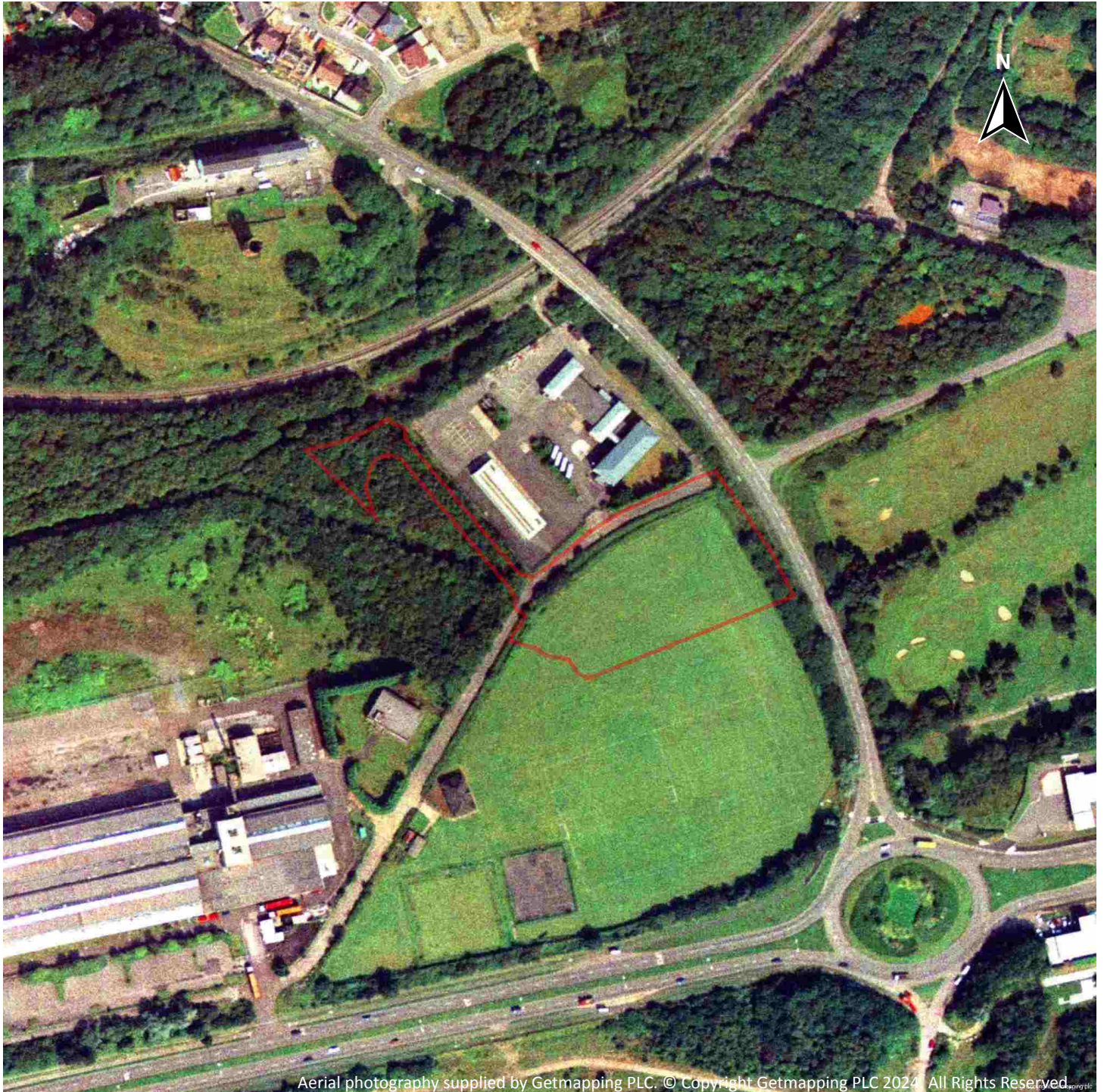
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Date: 18 October 2024

Recent site history - 2000 aerial photograph



Capture Date: 24/08/2000

Site Area: 0.97ha



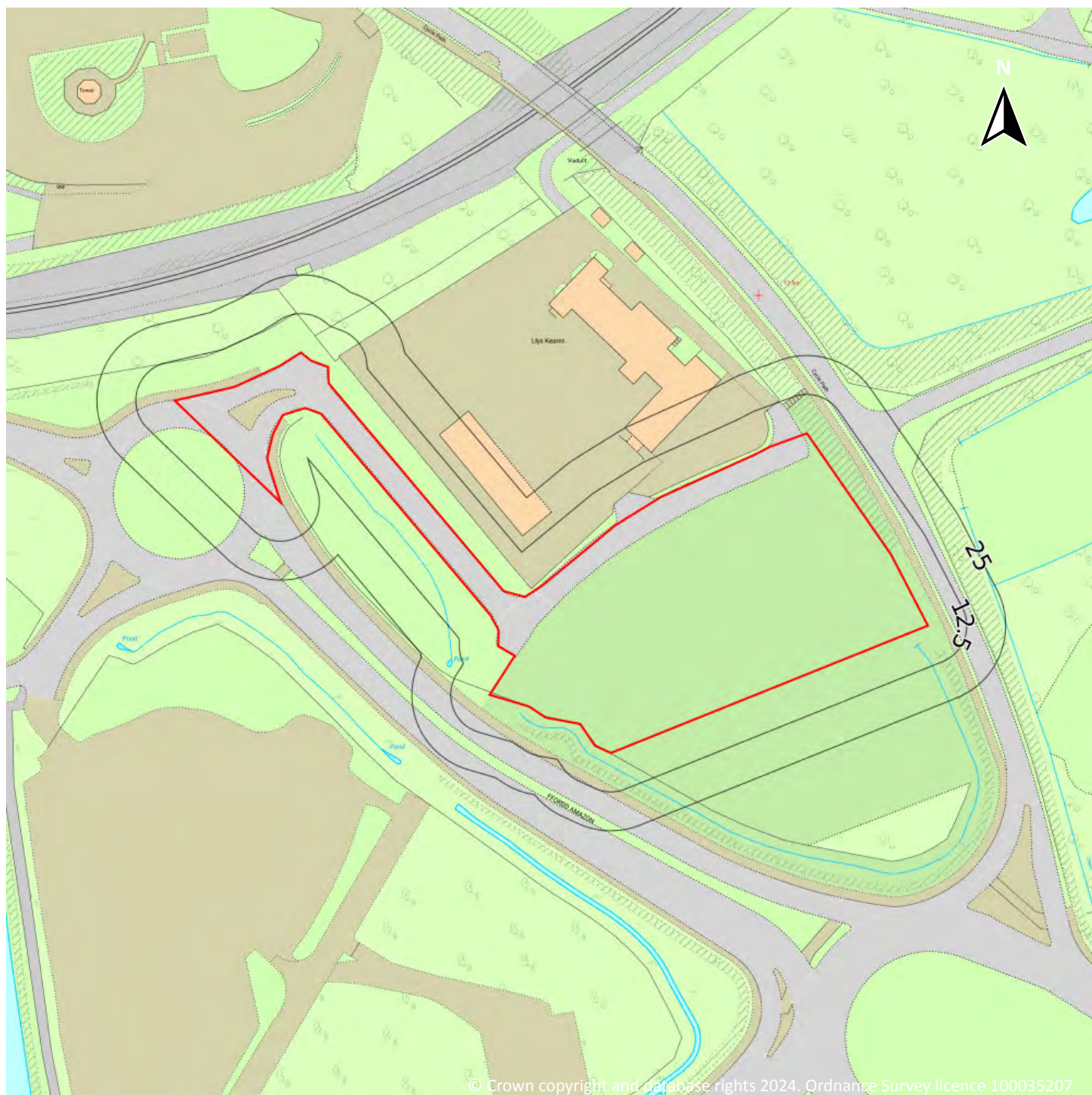
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Date: 18 October 2024

OS MasterMap site plan



Site Area: 0.97ha



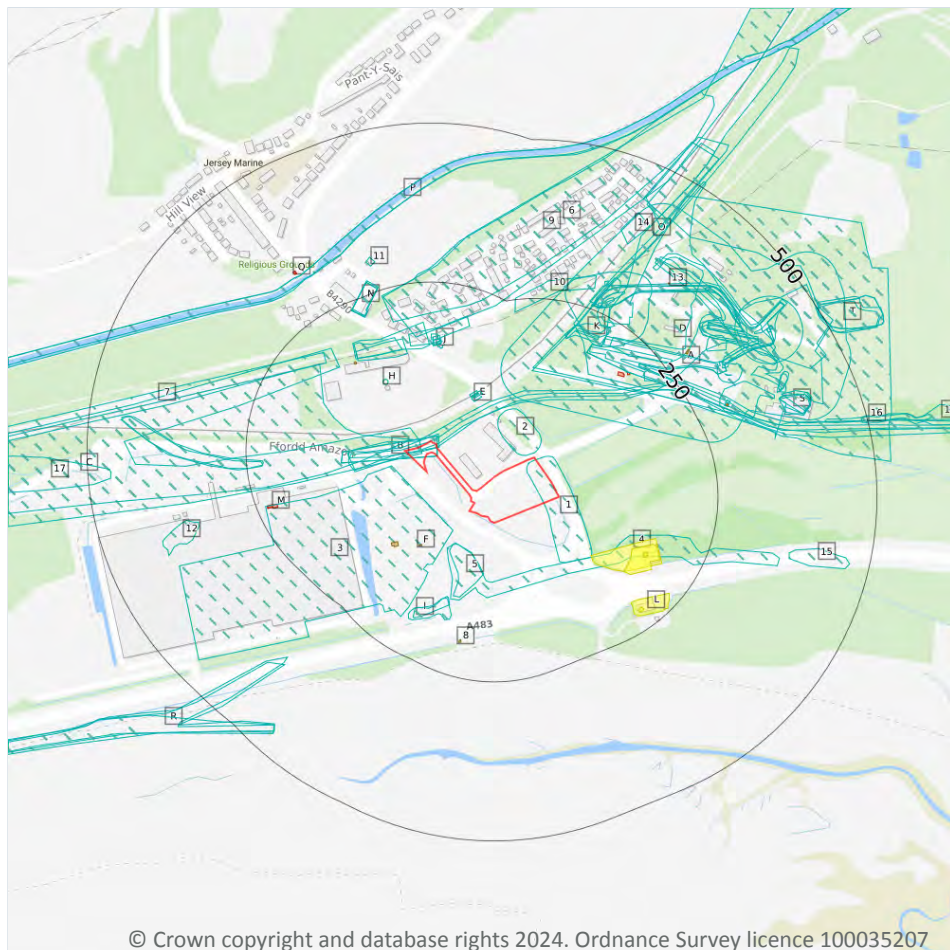
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Date: 18 October 2024

1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

90

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 15 >](#)

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Heap	1948	339606



ID	Location	Land use	Dates present	Group ID
A	On site	Railway Sidings	1921	359444
A	On site	Railway Sidings	1938	378229
B	On site	Railway Sidings	1921	363954
B	On site	Railway Sidings	1921	374706
B	On site	Railway Sidings	1914	390067
C	On site	Railway Sidings	1938 - 1948	373179
2	7m NE	Unspecified Heap	1948	339608
C	12m NW	Railway Sidings	1962	390323
3	32m W	Unspecified Works	1980	336794
4	55m SW	Unspecified Heap	1921	355569
5	55m SW	Unspecified Heap	1962	389767
D	84m NE	Colliery	1914	373777
E	90m N	Railway Station	1914 - 1921	374362
E	92m N	Railway Station	1900	369819
E	94m N	Railway Station	1938	379839
H	109m NW	Unspecified Tank	1900	338791
D	134m NE	Colliery	1921	388361
I	137m SW	Unspecified Heap	1962	357256
D	138m NE	Colliery	1938	361529
I	139m SW	Unspecified Heap	1921	358259
H	142m NW	Cuttings	1884	371763
H	146m NW	Cuttings	1914	370067
J	147m NW	Railway Station	1884	376308
J	150m NW	Railway Station	1921	389603
H	150m NW	Cuttings	1962	369285
J	151m NW	Railway Station	1962	371919
J	154m NW	Railway Station	1914 - 1948	364544
D	156m NE	Disused Colliery	1900	342224



ID	Location	Land use	Dates present	Group ID
J	159m NW	Railway Station	1900	373509
6	165m NW	Railway Sidings	1980	377416
D	185m NE	Railway Sidings	1921	371275
D	185m NE	Railway Sidings	1914	381454
7	186m NW	Railway Sidings	1938	388915
K	194m NE	Unspecified Pit	1914 - 1921	358104
K	196m NE	Unspecified Ground Workings	1938	350998
9	196m NW	Railway Sidings	1948 - 1962	365797
K	201m NE	Colliery	1884	357665
K	209m NE	Unspecified Ground Workings	1980	351607
D	212m NE	Unspecified Ground Workings	1980	346265
N	219m NW	Police Station	1921	361944
N	221m NW	Police Station	1914 - 1921	357818
N	222m NW	Police Station	1938	358968
C	224m W	Unspecified Heap	1921	386556
C	225m W	Unspecified Heap	1921	350513
10	231m N	Railway Sidings	1884	334316
K	232m NE	Unspecified Ground Workings	1884	345667
O	245m NE	Railway Sidings	1884	384916
D	255m NE	Railway Sidings	1921	363428
K	257m NE	Unspecified Pit	1900	342996
D	260m NE	Railway Sidings	1938	372767
11	291m NW	Pump House	1980	345149
D	291m E	Refuse Heap	1914	335056
K	293m NE	Coal Pit	1884	338227
D	297m E	Unspecified Tank	1914 - 1921	363790
D	301m E	Unspecified Tank	1938	376995
P	308m NW	Disused Canal	1938 - 1964	385632



ID	Location	Land use	Dates present	Group ID
D	311m NE	Refuse Heap	1914 - 1938	364940
P	311m NW	Disused Canal	1900	372565
D	319m NE	Unspecified Heap	1980	339605
D	328m NE	Refuse Heap	1962	372156
D	329m NE	Refuse Heap	1914 - 1938	371019
D	332m NE	Unspecified Quarries	1948	349280
12	344m W	Refuse Heap	1980	335284
D	359m NE	Unspecified Quarry	1962	330032
R	365m SW	Unspecified Heap	1914	354718
D	365m NE	Unspecified Drift	1914	352209
14	366m NE	Cuttings	1884	332905
15	373m E	Unspecified Heap	1921	339607
R	377m SW	Unspecified Heap	1921	363612
S	378m E	Unspecified Quarry	1914	363269
S	378m E	Unspecified Quarry	1962	386082
S	380m E	Unspecified Quarry	1921	353542
S	381m E	Refuse Heap	1962	335286
S	385m E	Sand Pit	1948	341444
S	385m E	Unspecified Quarry	1938	387057
O	414m NE	Cuttings	1938	387014
D	415m NE	Unspecified Drift	1921	383318
D	415m NE	Drift	1921	349510
D	420m NE	Unspecified Drift	1938	381360
O	426m NE	Cuttings	1884	374061
O	429m NE	Railway Sidings	1914	376225
16	435m E	Unspecified Ground Workings	1980	345668
R	455m SW	Unspecified Heap	1948	365202
17	463m W	Unspecified Pit	1948 - 1962	376822



ID	Location	Land use	Dates present	Group ID
18	491m E	Unspecified Quarries	1948 - 1962	367324
T	495m NE	Refuse Heap	1962	360741
T	495m NE	Refuse Heap	1948	376442
T	495m NE	Refuse Heap	1914	381860
T	498m NE	Refuse Heap	1921 - 1938	370696

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

7

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
F	92m SW	Unspecified Tank	1993	39303
F	119m SW	Tanks	1993	40885
H	157m NW	Unspecified Tank	1881 - 1899	46047
8	191m S	Unspecified Tank	1988	39290
D	289m NE	Unspecified Tank	1995	39302
D	300m E	Unspecified Tank	1917	40040
13	345m NE	Unspecified Tank	1995	40511

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

6

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or



succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	184m NE	Electricity Substation	1995	20588
A	196m NE	Electricity Substation	1988	20602
M	218m W	Electricity Substations	1993	21494
M	225m W	Electricity Substation	1964	20591
Q	327m NW	Electricity Substation	1993	20609
Q	327m NW	Electricity Transformer	1964	21201

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

5

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
G	105m SE	Filling Station	1988	820
G	141m SE	Filling Station	1995	838
G	159m SE	Filling Station	1970	822
L	201m SE	Filling Station	1988 - 1995	804
L	216m SE	Filling Station	1970	798

This data is sourced from Ordnance Survey / Groundsure.



1.5 Historical garages

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

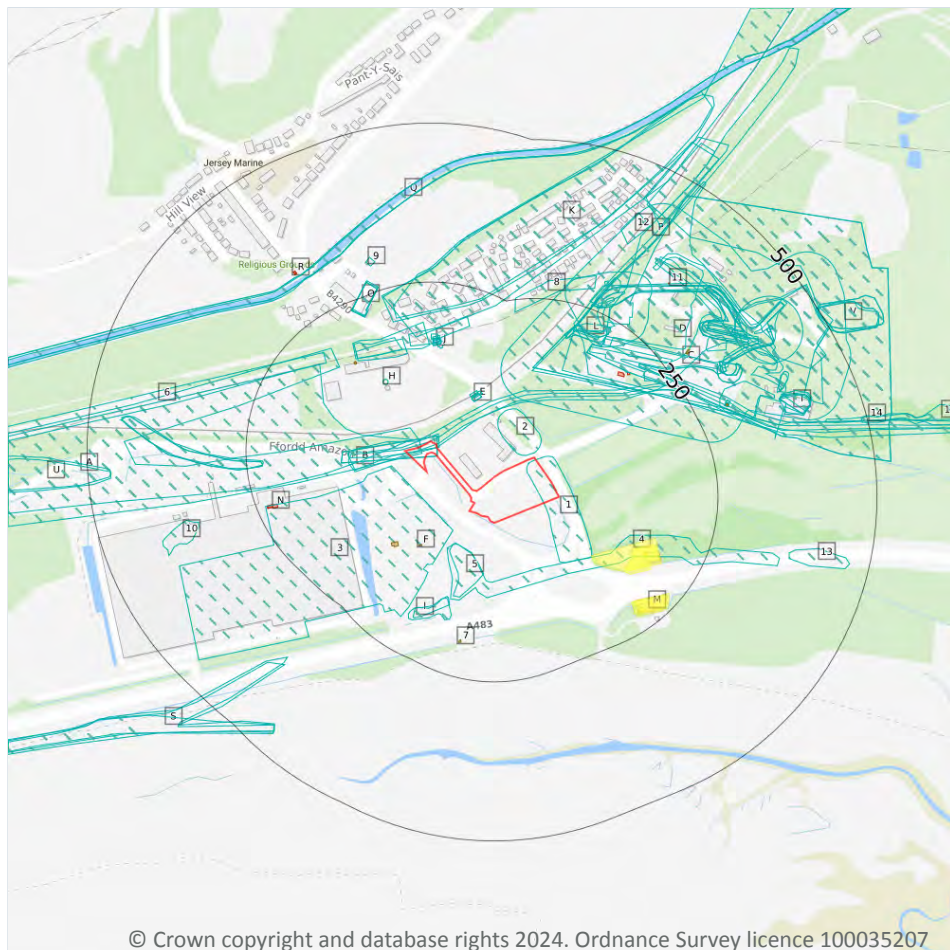
0

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

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



2 Past land use - un-grouped



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

2.1 Historical industrial land uses

Records within 500m

113

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 22](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Heap	1948	339606
A	On site	Railway Sidings	1948	373179
B	On site	Railway Sidings	1914	390067



ID	Location	Land Use	Date	Group ID
B	On site	Railway Sidings	1921	374706
B	On site	Railway Sidings	1921	363954
C	On site	Railway Sidings	1921	359444
C	On site	Railway Sidings	1938	378229
2	7m NE	Unspecified Heap	1948	339608
A	12m NW	Railway Sidings	1962	390323
3	32m W	Unspecified Works	1980	336794
4	55m SW	Unspecified Heap	1921	355569
5	55m SW	Unspecified Heap	1962	389767
D	84m NE	Colliery	1914	373777
E	90m N	Railway Station	1914	374362
E	90m N	Railway Station	1921	374362
E	92m N	Railway Station	1900	369819
E	94m N	Railway Station	1938	379839
H	109m NW	Unspecified Tank	1900	338791
D	134m NE	Colliery	1921	388361
I	137m SW	Unspecified Heap	1962	357256
D	138m NE	Colliery	1938	361529
D	138m NE	Colliery	1938	361529
I	139m SW	Unspecified Heap	1921	358259
H	142m NW	Cuttings	1884	371763
D	144m NE	Colliery	1921	388361
H	146m NW	Cuttings	1914	370067
J	147m NW	Railway Station	1884	376308
J	150m NW	Railway Station	1921	389603
H	150m NW	Cuttings	1962	369285
J	151m NW	Railway Station	1962	371919
J	154m NW	Railway Station	1948	364544



ID	Location	Land Use	Date	Group ID
J	154m NW	Railway Station	1914	364544
J	154m NW	Railway Station	1921	364544
D	156m NE	Disused Colliery	1900	342224
J	157m NW	Railway Station	1938	364544
J	159m NW	Railway Station	1900	373509
K	165m NW	Railway Sidings	1980	377416
D	185m NE	Railway Sidings	1914	381454
D	185m NE	Railway Sidings	1921	371275
6	186m NW	Railway Sidings	1938	388915
L	194m NE	Unspecified Pit	1914	358104
L	196m NE	Unspecified Ground Workings	1938	350998
L	196m NE	Unspecified Ground Workings	1938	350998
K	196m NW	Railway Sidings	1962	365797
K	200m NW	Railway Sidings	1948	365797
L	201m NE	Colliery	1884	357665
L	204m NE	Unspecified Pit	1921	358104
L	209m NE	Unspecified Ground Workings	1980	351607
D	212m NE	Unspecified Ground Workings	1980	346265
O	219m NW	Police Station	1921	361944
O	221m NW	Police Station	1914	357818
O	221m NW	Police Station	1921	357818
O	222m NW	Police Station	1938	358968
A	224m W	Unspecified Heap	1921	386556
A	225m W	Unspecified Heap	1921	350513
A	225m W	Unspecified Heap	1921	350513
8	231m N	Railway Sidings	1884	334316
L	232m NE	Unspecified Ground Workings	1884	345667
P	245m NE	Railway Sidings	1884	384916



ID	Location	Land Use	Date	Group ID
D	255m NE	Railway Sidings	1921	363428
L	257m NE	Unspecified Pit	1900	342996
D	260m NE	Railway Sidings	1938	372767
9	291m NW	Pump House	1980	345149
D	291m E	Refuse Heap	1914	335056
L	293m NE	Coal Pit	1884	338227
D	297m E	Unspecified Tank	1914	363790
D	297m E	Unspecified Tank	1921	363790
D	298m E	Unspecified Tank	1921	363790
D	301m E	Unspecified Tank	1938	376995
Q	308m NW	Disused Canal	1962	385632
D	311m NE	Refuse Heap	1914	364940
D	311m NE	Refuse Heap	1921	364940
Q	311m NW	Disused Canal	1900	372565
Q	311m NW	Disused Canal	1948	385632
D	318m NE	Refuse Heap	1938	364940
D	318m NE	Refuse Heap	1938	364940
D	319m NE	Unspecified Heap	1980	339605
D	328m NE	Refuse Heap	1962	372156
D	329m NE	Refuse Heap	1914	371019
D	329m NE	Refuse Heap	1921	371019
D	332m NE	Unspecified Quarries	1948	349280
D	338m NE	Refuse Heap	1938	371019
D	338m NE	Refuse Heap	1938	371019
10	344m W	Refuse Heap	1980	335284
D	359m NE	Unspecified Quarry	1962	330032
S	365m SW	Unspecified Heap	1914	354718
D	365m NE	Unspecified Drift	1914	352209



ID	Location	Land Use	Date	Group ID
12	366m NE	Cuttings	1884	332905
13	373m E	Unspecified Heap	1921	339607
S	377m SW	Unspecified Heap	1921	363612
T	378m E	Unspecified Quarry	1914	363269
T	378m E	Unspecified Quarry	1962	386082
T	380m E	Unspecified Quarry	1921	353542
T	380m E	Unspecified Quarry	1921	353542
T	381m E	Refuse Heap	1962	335286
T	385m E	Sand Pit	1948	341444
T	385m E	Unspecified Quarry	1938	387057
P	414m NE	Cuttings	1938	387014
D	415m NE	Unspecified Drift	1921	383318
D	415m NE	Drift	1921	349510
D	420m NE	Unspecified Drift	1938	381360
P	426m NE	Cuttings	1884	374061
P	429m NE	Railway Sidings	1914	376225
14	435m E	Unspecified Ground Workings	1980	345668
S	455m SW	Unspecified Heap	1948	365202
U	463m W	Unspecified Pit	1962	376822
U	464m W	Unspecified Pit	1948	376822
15	491m E	Unspecified Quarries	1962	367324
V	495m NE	Refuse Heap	1962	360741
V	495m NE	Refuse Heap	1948	376442
V	495m NE	Refuse Heap	1914	381860
V	498m NE	Refuse Heap	1921	370696
V	498m NE	Refuse Heap	1921	370696

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

8

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 22 >](#)

ID	Location	Land Use	Date	Group ID
F	92m SW	Unspecified Tank	1993	39303
F	119m SW	Tanks	1993	40885
H	157m NW	Unspecified Tank	1881	46047
H	157m NW	Unspecified Tank	1899	46047
7	191m S	Unspecified Tank	1988	39290
D	289m NE	Unspecified Tank	1995	39302
D	300m E	Unspecified Tank	1917	40040
11	345m NE	Unspecified Tank	1995	40511

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

6

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 22 >](#)

ID	Location	Land Use	Date	Group ID
C	184m NE	Electricity Substation	1995	20588
C	196m NE	Electricity Substation	1988	20602
N	218m W	Electricity Substations	1993	21494
N	225m W	Electricity Substation	1964	20591
R	327m NW	Electricity Substation	1993	20609
R	327m NW	Electricity Transformer	1964	21201



This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

6

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'.

Features are displayed on the Past land use - un-grouped map on [page 22](#) >

ID	Location	Land Use	Date	Group ID
G	105m SE	Filling Station	1988	820
G	141m SE	Filling Station	1995	838
G	159m SE	Filling Station	1970	822
M	201m SE	Filling Station	1988	804
M	202m SE	Filling Station	1995	804
M	216m SE	Filling Station	1970	798

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)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

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

0

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

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

3.7 Waste exemptions

Records within 500m

1

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 29](#) >

ID	Location	Site	Reference	Category	Sub-Category	Description
1	462m NW	12 St. Margarets Avenue, Jersey Marine, Neath, Castell-Nedd Port Talbot, Sa10 6jh	NRW- WME074100	Using waste exemption	Not 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
- △ Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

8

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 32](#) >

ID	Location	Company	Address	Activity	Category
1	93m SW	Tank	West Glamorgan, SA1	Tanks (Generic)	Industrial Features
2	145m NW	Gas Governor Station	West Glamorgan, SA10	Gas Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
A	180m SE	Shell Swansea Bay	Fabian Way, Jersey Marine, Neath, West Glamorgan, SA10 6JW	Petrol and Fuel Stations	Road and Rail
3	182m NE	Gas Pumping Station	West Glamorgan, SA10	Gas Features	Infrastructure and Facilities
4	196m NW	Pylon	West Glamorgan, SA10	Electrical Features	Infrastructure and Facilities
5	196m N	Mast	West Glamorgan, SA10	Telecommunications Features	Infrastructure and Facilities
B	205m N	Electricity Sub Station	West Glamorgan, SA10	Electrical Features	Infrastructure and Facilities
B	215m N	Pylon	West Glamorgan, SA10	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

2

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 32 >](#)

ID	Location	Company	Address	LPG	Status
A	170m SE	SHELL	Fabian Way, Neath, Neath Port Talbot, SA10 6JW	Yes	Open
9	337m SE	OBSOLETE	Fabian Way, Neath, Neath Port Talbot, SA10 6JW	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.



4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m**0**

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m**0**

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

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

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

Records within 500m**1**

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

Features are displayed on the Current industrial land use map on [page 32 >](#)

ID	Location	Address	Details	
A	173m SE	Shell UK Limited, Shell Swansea Bay, Fabian Way, Crymlyn Burrows, Neath Port Talbot, SA10 6JW	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No enforcements issued Date of enforcement: No enforcements issued Comment: No enforcements issued

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

1

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 32 >](#)

ID	Location	Address	Details	
7	244m SE	CSO and EO at Fabian Way SPS, Fabian Way, Jersey Marine Village, Neath, SA10 6JW	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: BP0271501 Permit Version: 0 Receiving Water: Neath Estuary	Status: Effective Issue date: 08/06/2022 Effective Date: 08/06/2022 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m

0

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

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



4.17 List 2 Dangerous Substances

Records within 500m

1

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

Features are displayed on the Current industrial land use map on [page 32 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
6	198m S	Delta Crompton, Fabian Way Swansea	Not Active	-	Chromium, Copper, Lead, Nickel, Zinc

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

4

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

Features are displayed on the Current industrial land use map on [page 32 >](#)

ID	Location	Details	
8	260m SE	Incident Date: 23/04/2014 Incident Identification: 1229442 Pollutant: Sewage Materials Pollutant Description: Grey Water	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
10	386m E	Incident Date: 25/09/2003 Incident Identification: 192393 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
C	424m W	Incident Date: 17/02/2017 Incident Identification: 1700828 Pollutant: - Pollutant Description: -	Water Impact: Other Land Impact: Category 3 (Minor) Air Impact: Other
C	424m W	Incident Date: 17/02/2017 Incident Identification: 1700828 Pollutant: Inert Materials and Waste Pollutant Description: Other Inert Material or Waste	Water Impact: Other Land Impact: Category 3 (Minor) Air Impact: Other

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

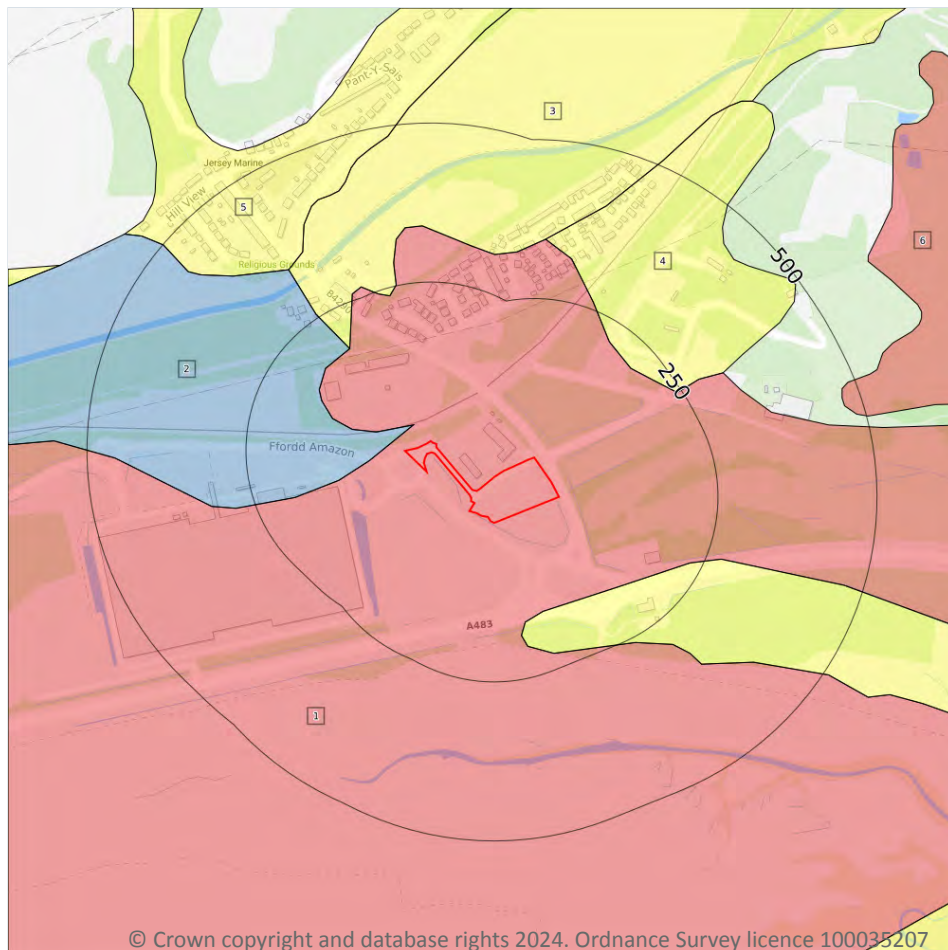
Records within 500m

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

6

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 39 >](#)

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	23m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow



ID	Location	Designation	Description
3	158m S	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	207m 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
5	338m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
6	471m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

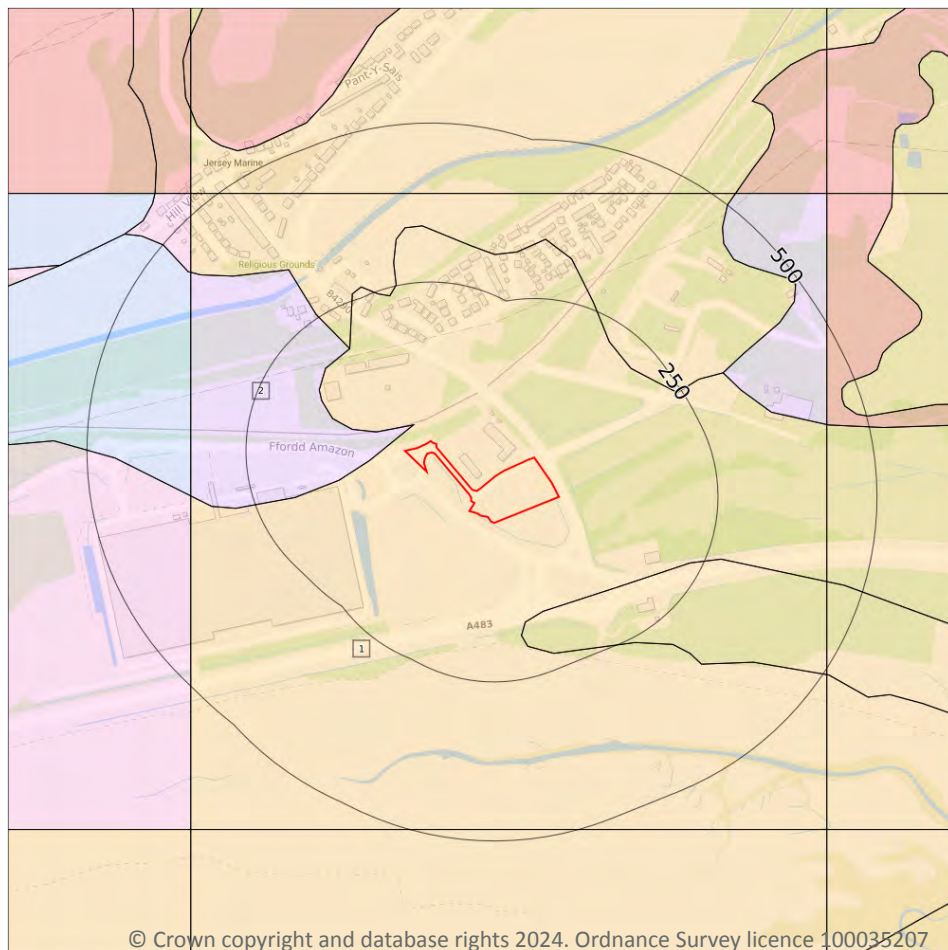
Features are displayed on the Bedrock aquifer map on [page 41](#) >

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

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



Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m

2

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

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

Features are displayed on the Groundwater vulnerability map on [page 42](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
2	23m NW	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Medium Aquifer type: Secondary 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

0

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

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

5.5 Groundwater vulnerability- local information

Records on site

0

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
Point features
- 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

8

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 44](#) >

ID	Location	Details	
-	1696m NW	Status: Historical Licence No: WA/059/0001/001 Details: Make-Up Or Top Up Water Direct Source: EAW Surface Water Point: POND NO.29, LOWER END OF FREEMANS BUND STREAM, NEATH Data Type: Point Name: Hawk Plant Hire Limited Easting: 269973 Northing: 194604	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/09/2010 Expiry Date: 25/10/2010 Issue No: 1 Version Start Date: 29/09/2010 Version End Date: -
-	1787m NW	Status: Active Licence No: 22/59/5/0007 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 269880 Northing: 194630	Annual Volume (m ³): 204.57 Max Daily Volume (m ³): 204.57 Original Application No: - Original Start Date: 29/07/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1787m NW	Status: Historical Licence No: 22/59/5/0007 Details: Process Water - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 269880 Northing: 194630	Annual Volume (m ³): 204.57 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/07/2010 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1787m NW	Status: Historical Licence No: 22/59/5/0007 Details: Process Water Direct Source: EAW Surface Water Point: FREEMANS BUND Data Type: Point Name: St Mowden Properties PLC Easting: 269880 Northing: 194630	Annual Volume (m ³): 204.57 Max Daily Volume (m ³): 204.57 Original Application No: - Original Start Date: 30/06/1997 Expiry Date: - Issue No: 102 Version Start Date: 29/07/2010 Version End Date: -



ID	Location	Details	
-	1917m E	Status: Historical Licence No: 21/58/72/0036 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: EAW Surface Water Point: INLAND WATER THE NEATH CANAL Data Type: Point Name: Hope Construction Materials Limited Easting: 273410 Northing: 194090	Annual Volume (m ³): 15000 Max Daily Volume (m ³): 50 Original Application No: - Original Start Date: 14/08/2008 Expiry Date: 31/03/2017 Issue No: 3 Version Start Date: 09/12/2014 Version End Date: -
-	1927m E	Status: Active Licence No: WA/058/0072/0009 Details: General Use relating to Secondary category - Medium Loss - Medium Direct Source: Neath Canal Point: - Data Type: Point Name: - Easting: 273419 Northing: 194094	Annual Volume (m ³): 15000 Max Daily Volume (m ³): 50 Original Application No: - Original Start Date: 26/09/2022 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
-	1927m E	Status: Active Licence No: WA/058/0072/0009 Details: General Washing / Process Washing - Medium Direct Source: Neath Canal Point: - Data Type: Point Name: - Easting: 273419 Northing: 194094	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: 26/09/2022 Expiry Date: 31/03/2029 Issue No: - Version Start Date: - Version End Date: -
-	1927m E	Status: Historical Licence No: WA/058/0072/0009 Details: General Use relating to Secondary category - Medium Loss - Medium Direct Source: Neath Canal Point: - Data Type: Point Name: - Easting: 273419 Northing: 194094	Annual Volume (m ³): 15000 Max Daily Volume (m ³): 120 Original Application No: - Original Start Date: 26/09/2022 Expiry Date: 31/03/2029 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

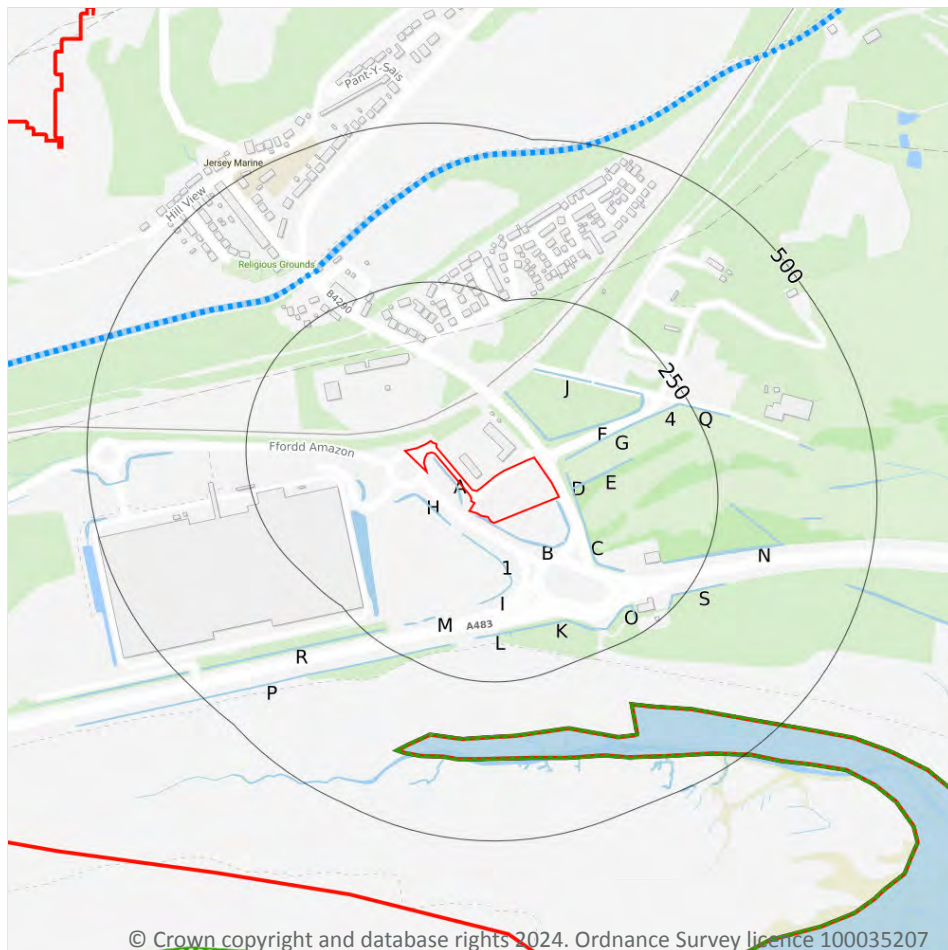
0

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

32

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 48 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
B	2m SW	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	6m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	16m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	24m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	24m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	24m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	35m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	37m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
1	38m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	39m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	39m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	68m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	114m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
I	116m 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
J	136m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	173m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	173m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	173m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	174m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	175m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	188m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	194m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	194m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	194m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	202m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	202m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	205m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
Q	210m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	215m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
R	229m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	236m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	240m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

19

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 48 >](#)

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 48 >](#)



ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	Coastal catchment	Not part of a river WB catchment	203	Neath	Tawe to Cadoxton

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

6.4 WFD Surface water bodies

Records identified	0
---------------------------	----------

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

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 48 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Swansea Carboniferous Coal Measures	GB41002G201000	Poor	Poor	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

2

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

Features are displayed on the River and coastal flooding map on [page 53](#) >



Distance	Flood risk category
On site	N/A
0 - 50m	Low

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

7.2 Historical Flood Events

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

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

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

7.3 Flood Defences

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

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

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

7.4 Areas Benefiting from Flood Defences

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

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

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

7.5 Flood Storage Areas

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

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

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



River and coastal flooding - Flood Zones



- 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 53 >](#)

Location	Type
23m E	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

0

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

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



8 Surface water flooding



— 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, 0.3m - 1.0m

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

Features are displayed on the Surface water flooding map on [page 57 >](#)

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

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

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

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

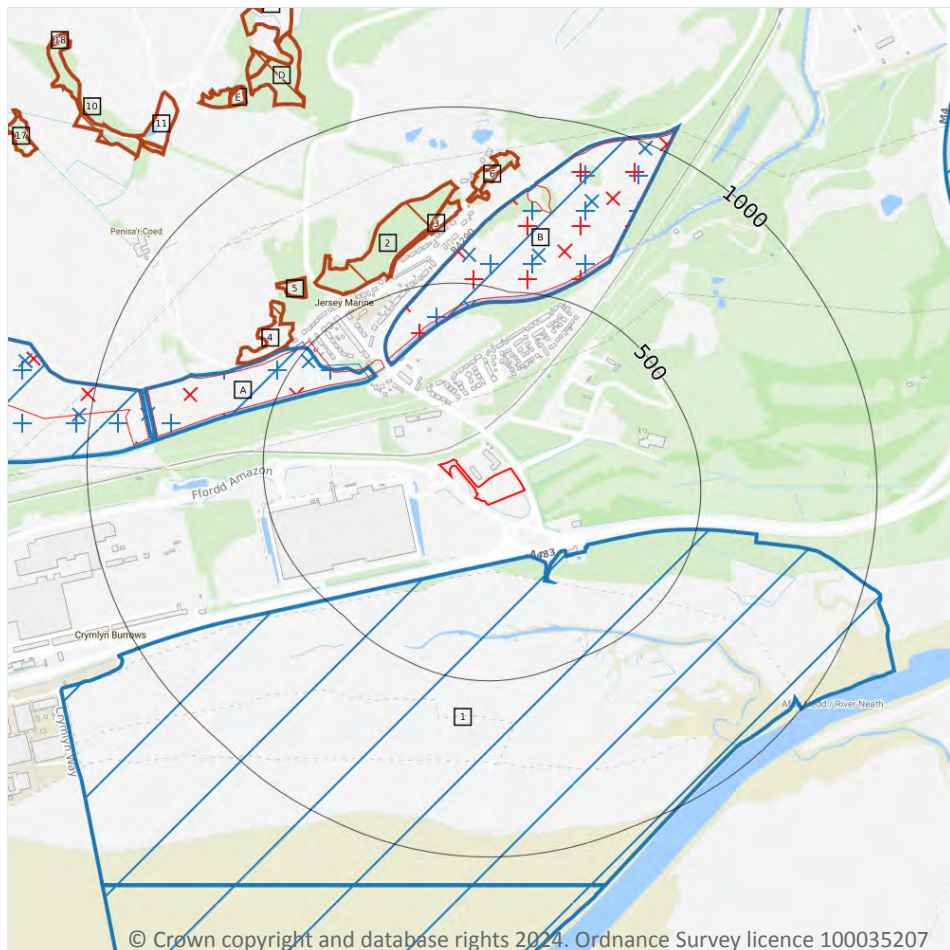
Low

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 59](#) >

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Conserved wetland sites (Ramsar sites)
- + Special Areas of Conservation (SAC)
- × National Nature Reserves (NNR)
- + Local Nature Reserves (LNR)
- ▨ Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

10

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 60](#) >

ID	Location	Name	Data source
1	166m S	Crymlyn Burrows	Natural Resources Wales



ID	Location	Name	Data source
A	310m NW	Cors Crymlyn / Crymlyn Bog	Natural Resources Wales
B	316m NW	Pant-y-Sais	Natural Resources Wales
C	816m W	Cors Crymlyn / Crymlyn Bog	Natural Resources Wales
9	1080m S	Crymlyn Burrows	Natural Resources Wales
-	1426m NE	Earlswood Road Cutting and Ferryboat Inn Quarries	Natural Resources Wales
-	1435m E	Earlswood Road Cutting and Ferryboat Inn Quarries	Natural Resources Wales
15	1442m NE	Earlswood Road Cutting and Ferryboat Inn Quarries	Natural Resources Wales
-	1451m NE	Earlswood Road Cutting and Ferryboat Inn Quarries	Natural Resources Wales
-	1662m NE	Earlswood Road Cutting and Ferryboat Inn Quarries	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

3

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.

Features are displayed on the Environmental designations map on [page 60](#) >



ID	Location	Site	Details
A	311m NW	Name: Crymlyn Bog Site status: - Data source: Natural Resources Wales	Overview: Crymlyn Bog comprises a floodplain-valley mire located within a lowland coastal context and is the most extensive wetland of its type in Wales. The mire features a complex mosaic of vegetation types, supporting examples of swamp, tall herb fen, fen meadow and carr communities. The site supports an exceptionally wide range of rich and poor fen communities, some of which bear a close floristic affinity to certain floodplain mires in East Anglia. The presence of significant areas of saw sedge <i>Cladium mariscus</i> swamp is notable in extensive stands of this uncommon vegetation type, occurring at only three other sites in Wales. Crymlyn Bog is part of a larger inter-estuarine complex which includes the adjacent Pant y Sais fen. Ramsar criteria: Ramsar criterion 1 Largest example of valley floodplain topogenous mire in South Wales, and one of the largest surviving fens in the west of Britain. Very few other sites are known to support a comparable complexity and diversity of vegetation. Habitats Directive Annex I features present on the SAC include: H7140 Transition mires and quaking bogs H7210 Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davallianae</i> H91E0 Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> Ramsar criterion 2 Supports a substantial population of the nationally-rare slender cotton-grass <i>Eriophorum gracile</i>, and a rich invertebrate fauna including many rare and highly localised species. Ramsar criterion 3 The site supports 199 vascular plant species including 17 regionally-uncommon and one nationally-rare.



ID	Location	Site	Details
B	316m NW	Name: Crymlyn Bog Site status: - Data source: Natural Resources Wales	Overview: Crymlyn Bog comprises a floodplain-valley mire located within a lowland coastal context and is the most extensive wetland of its type in Wales. The mire features a complex mosaic of vegetation types, supporting examples of swamp, tall herb fen, fen meadow and carr communities. The site supports an exceptionally wide range of rich and poor fen communities, some of which bear a close floristic affinity to certain floodplain mires in East Anglia. The presence of significant areas of saw sedge <i>Cladium mariscus</i> swamp is notable in extensive stands of this uncommon vegetation type, occurring at only three other sites in Wales. Crymlyn Bog is part of a larger inter-estuarine complex which includes the adjacent Pant y Sais fen. Ramsar criteria: Ramsar criterion 1 Largest example of valley floodplain topogenous mire in South Wales, and one of the largest surviving fens in the west of Britain. Very few other sites are known to support a comparable complexity and diversity of vegetation. Habitats Directive Annex I features present on the SAC include: H7140 Transition mires and quaking bogs H7210 Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davallianae</i> H91E0 Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> Ramsar criterion 2 Supports a substantial population of the nationally-rare slender cotton-grass <i>Eriophorum gracile</i>, and a rich invertebrate fauna including many rare and highly localised species. Ramsar criterion 3 The site supports 199 vascular plant species including 17 regionally-uncommon and one nationally-rare.



ID	Location	Site	Details
7	816m W	Name: Crymlyn Bog Site status: - Data source: Natural Resources Wales	Overview: Crymlyn Bog comprises a floodplain-valley mire located within a lowland coastal context and is the most extensive wetland of its type in Wales. The mire features a complex mosaic of vegetation types, supporting examples of swamp, tall herb fen, fen meadow and carr communities. The site supports an exceptionally wide range of rich and poor fen communities, some of which bear a close floristic affinity to certain floodplain mires in East Anglia. The presence of significant areas of saw sedge <i>Cladium mariscus</i> swamp is notable in extensive stands of this uncommon vegetation type, occurring at only three other sites in Wales. Crymlyn Bog is part of a larger inter-estuarine complex which includes the adjacent Pant y Sais fen. Ramsar criteria: Ramsar criterion 1 Largest example of valley floodplain topogenous mire in South Wales, and one of the largest surviving fens in the west of Britain. Very few other sites are known to support a comparable complexity and diversity of vegetation. Habitats Directive Annex I features present on the SAC include: H7140 Transition mires and quaking bogs H7210 Calcareous fens with <i>Cladium mariscus</i> and species of the <i>Caricion davallianae</i> H91E0 Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> Ramsar criterion 2 Supports a substantial population of the nationally-rare slender cotton-grass <i>Eriophorum gracile</i>, and a rich invertebrate fauna including many rare and highly localised species. Ramsar criterion 3 The site supports 199 vascular plant species including 17 regionally-uncommon and one nationally-rare.

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 60 >](#)

ID	Location	Name	Features of interest	Habitat description	Data source
A	310m NW	Crymlyn Bog / Cors Crymlyn	Very wet mires often identified by an unstable `quaking` surface; Calcium-rich fen dominated by great fen sedge (saw sedge); Alder woodland on floodplains.	Inland water bodies (Standing water, Running water); Bogs, Marshes, Water fringed vegetation, Fens; Humid grassland, Mesophile grassland; Broad-leaved deciduous woodland; Heath, Scrub, Maquis and Garrigue, Phygrana	Natural Resources Wales



ID	Location	Name	Features of interest	Habitat description	Data source
B	316m NW	Crymlyn Bog / Cors Crymlyn	Very wet mires often identified by an unstable `quaking` surface; Calcium-rich fen dominated by great fen sedge (saw sedge); Alder woodland on floodplains.	Inland water bodies (Standing water, Running water); Bogs, Marshes, Water fringed vegetation, Fens; Humid grassland, Mesophile grassland; Broad-leaved deciduous woodland; Heath, Scrub, Maquis and Garrigue, Phygrana	Natural Resources Wales
C	816m W	Crymlyn Bog / Cors Crymlyn	Very wet mires often identified by an unstable `quaking` surface; Calcium-rich fen dominated by great fen sedge (saw sedge); Alder woodland on floodplains.	Inland water bodies (Standing water, Running water); Bogs, Marshes, Water fringed vegetation, Fens; Humid grassland, Mesophile grassland; Broad-leaved deciduous woodland; Heath, Scrub, Maquis and Garrigue, Phygrana	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

4

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.

Features are displayed on the Environmental designations map on [page 60](#) >

ID	Location	Name	Data source
A	317m NW	Crymlyn Bog And Pant Y Sais	Natural Resources Wales
B	331m NW	Crymlyn Bog And Pant Y Sais	Natural Resources Wales
8	827m W	Crymlyn Bog And Pant Y Sais	Natural Resources Wales
-	1992m W	Crymlyn Bog And Pant Y Sais	Natural Resources Wales

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



10.6 Local Nature Reserves (LNR)

Records within 2000m

1

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.

Features are displayed on the Environmental designations map on [page 60](#) >

ID	Location	Name	Data source
B	316m NW	Pant-y-Sais	Natural Resources Wales

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

10.7 Designated Ancient Woodland

Records within 2000m

16

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 60](#) >

ID	Location	Name	Woodland Type
2	548m NW	Unknown	Ancient Semi Natural Woodland
3	548m NW	Unknown	Ancient Semi Natural Woodland
4	548m NW	Unknown	Ancient Semi Natural Woodland
5	608m NW	Unknown	Ancient Semi Natural Woodland
6	733m N	Unknown	Ancient Semi Natural Woodland
D	1087m NW	Unknown	Ancient Semi Natural Woodland
E	1166m NW	Unknown	Ancient Semi Natural Woodland
E	1178m NW	Unknown	Ancient Woodland Site of Unknown Category
10	1179m NW	Unknown	Ancient Semi Natural Woodland
11	1189m NW	Unknown	Ancient Woodland Site of Unknown Category
D	1222m NW	Unknown	Ancient Woodland Site of Unknown Category
12	1277m NW	Unknown	Ancient Woodland Site of Unknown Category



ID	Location	Name	Woodland Type
17	1453m NW	Unknown	Ancient Semi Natural Woodland
18	1583m NW	Unknown	Ancient Woodland Site of Unknown Category
-	1690m NE	Unknown	Ancient Semi Natural Woodland
-	1740m NE	Unknown	Plantation on Ancient Woodland Site

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

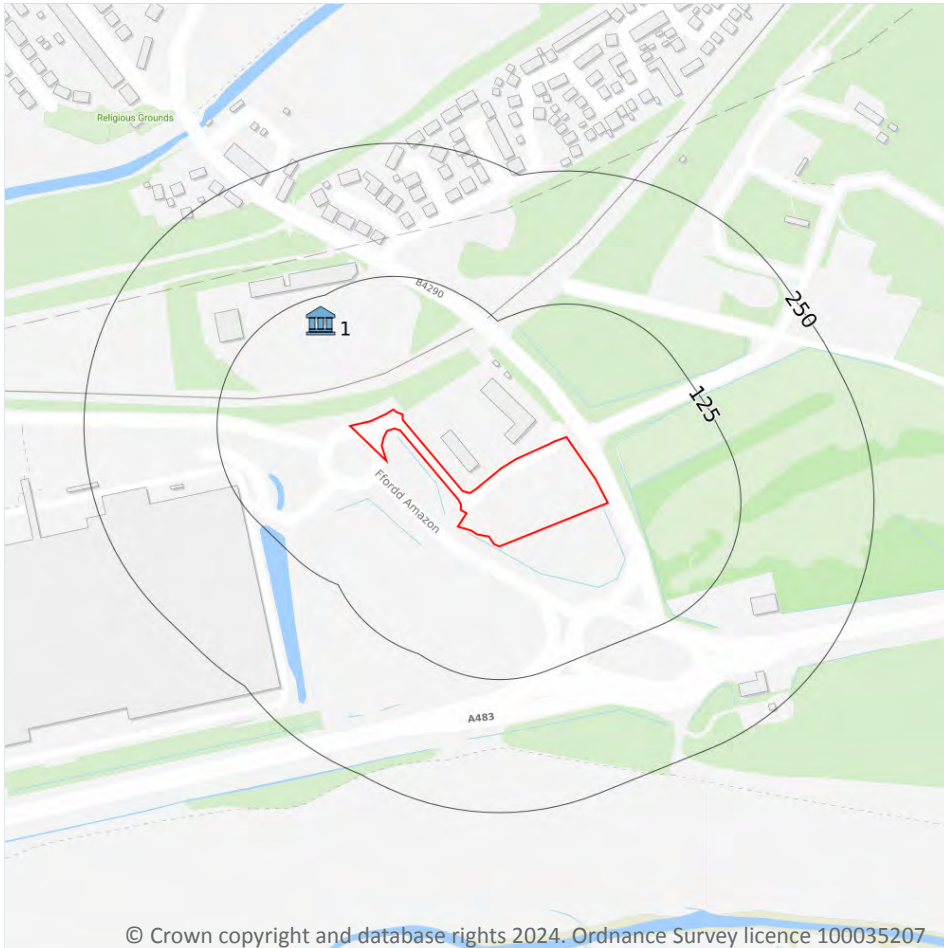
0

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



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

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

1

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

Features are displayed on the Visual and cultural designations map on [page 71 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
1	103m NW	Jersey Marine Tower, On High Ground S Of The New Tower Hotel, W Of The B4290.	II	11846	26/09/1985

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

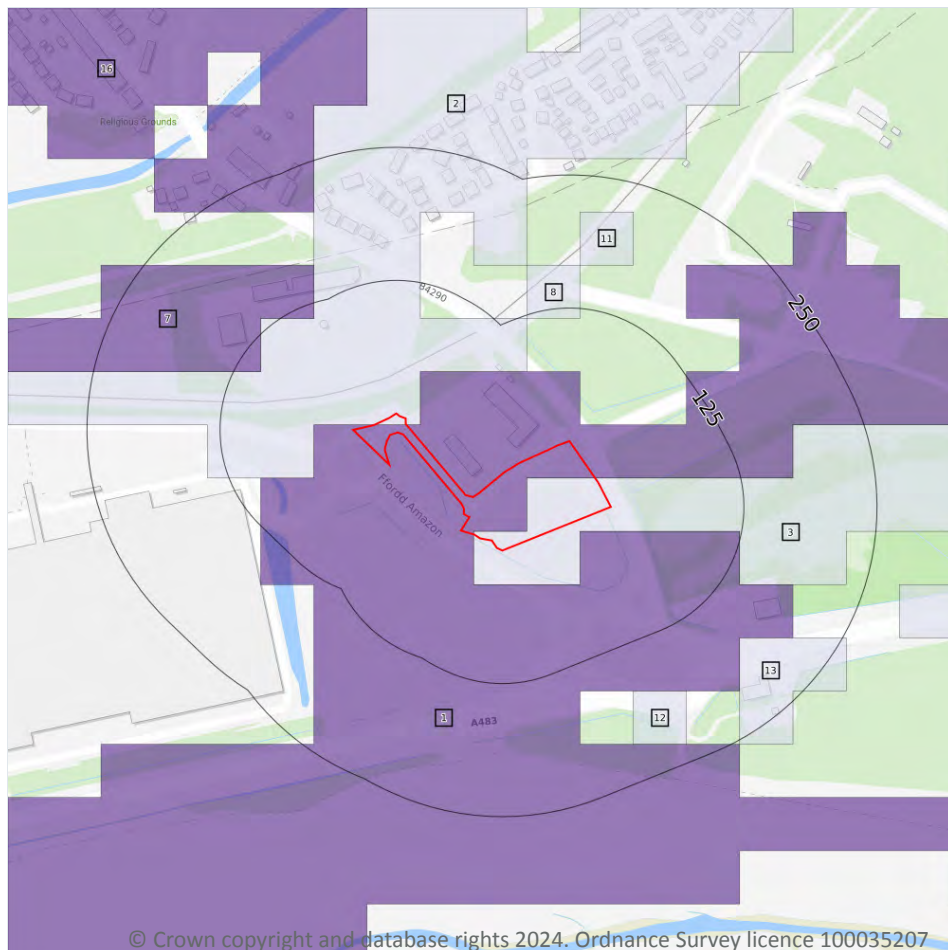
0

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

9

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 74](#) >

ID	Location	Classification	Description
1	On site	Grade 5	Very poor quality agricultural land
2	On site	Grade 3b	Moderate quality agricultural land
3	On site	Grade 3b	Moderate quality agricultural land



ID	Location	Classification	Description
7	103m NW	Grade 5	Very poor quality agricultural land
8	115m N	Grade 3b	Moderate quality agricultural land
11	166m N	Grade 3b	Moderate quality agricultural land
12	168m SE	Grade 3b	Moderate quality agricultural land
13	173m SE	Grade 3b	Moderate quality agricultural land
16	205m NW	Grade 5	Very 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

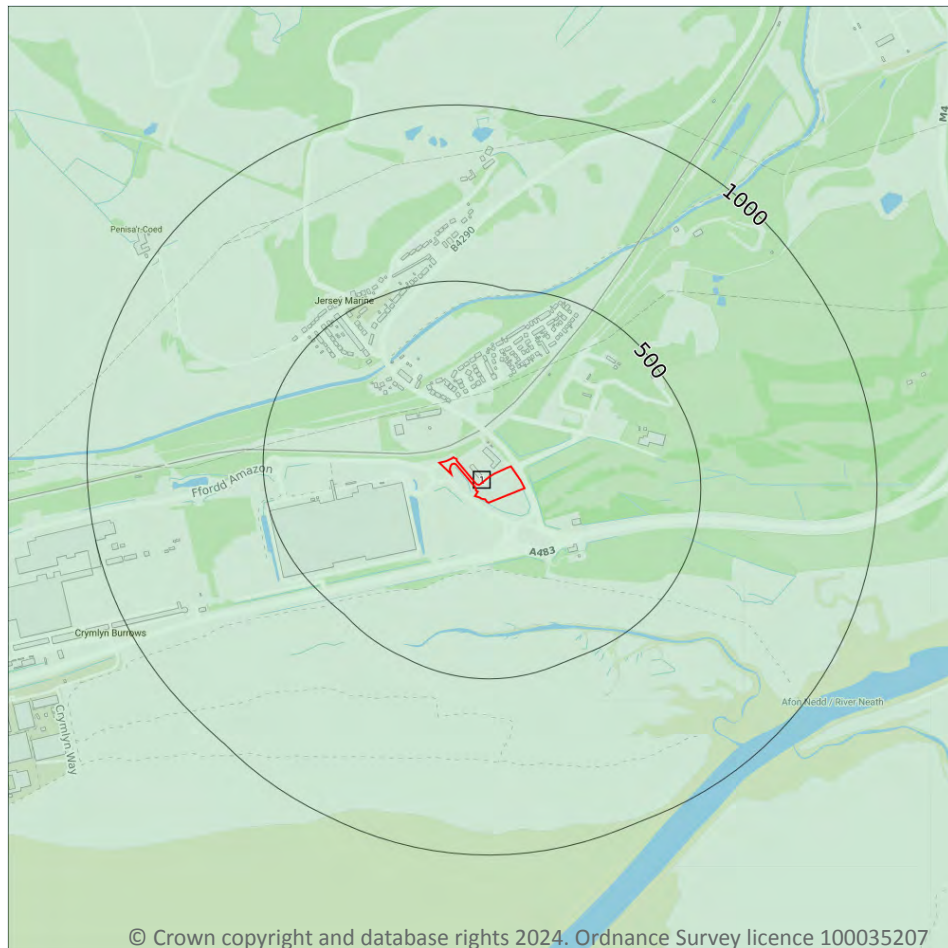
0

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.

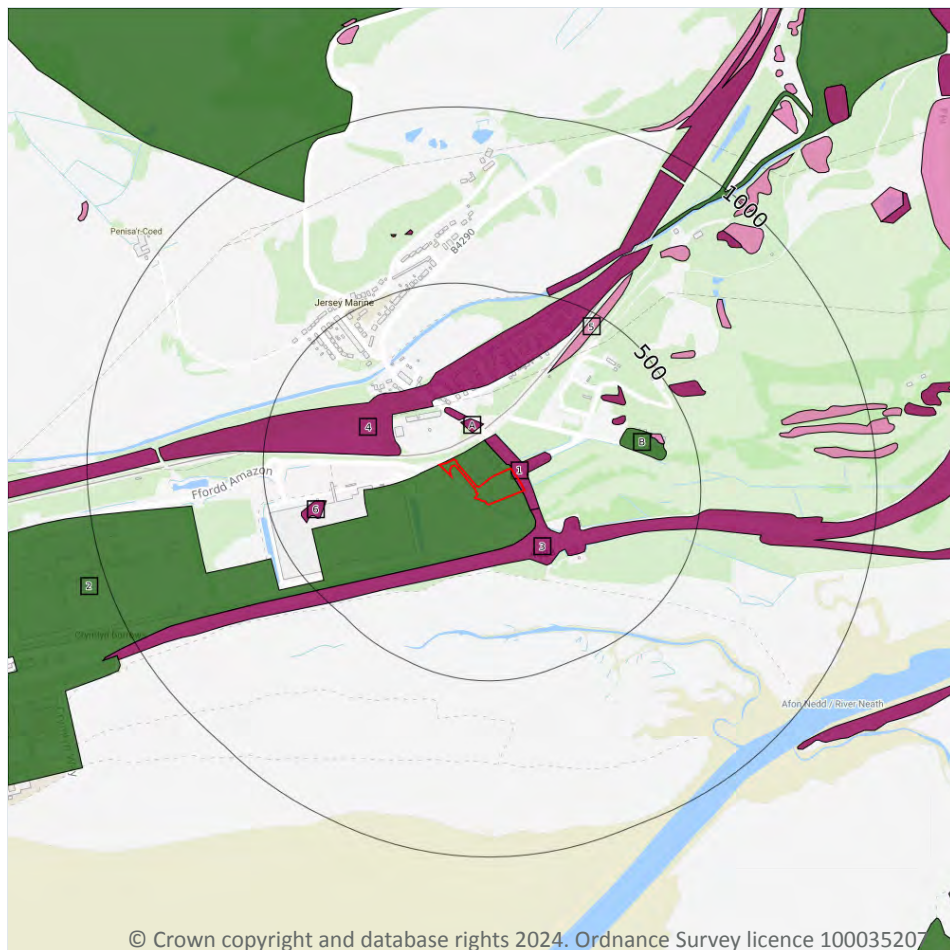
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 78](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SS79SW

This data is sourced from the British Geological Survey.



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



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

14.2 Artificial and made ground (10k)

Records within 500m

12

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 79 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	On site	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
3	58m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	91m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

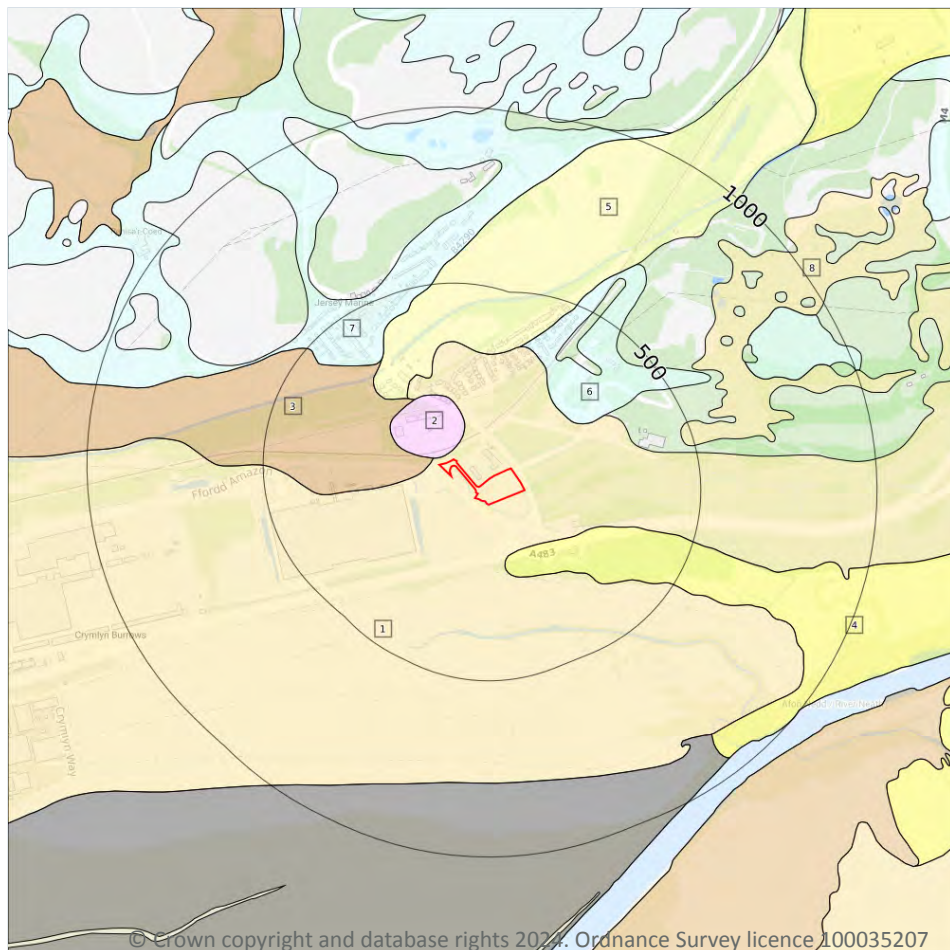


ID	Location	LEX Code	Description	Rock description
A	112m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	115m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
5	294m NE	WGR-VOID	Worked Ground (Undivided)	Void
B	301m E	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
B	311m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	326m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	337m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	390m E	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

8

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 81](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	BSA-S	Blown Sand - Sand	Sand
2	20m NW	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
3	24m W	PEAT-P	Peat - Peat	Peat
4	151m S	TFD-XCZS	Tidal Flat Deposits - Clay, Silt And Sand	Clay, Silt And Sand



ID	Location	LEX Code	Description	Rock description
5	208m NW	ALV-XSV	Alluvium - Sand And Gravel	Sand And Gravel
6	214m NE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
7	337m NW	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
8	470m E	BSA-S	Blown Sand - Sand	Sand

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

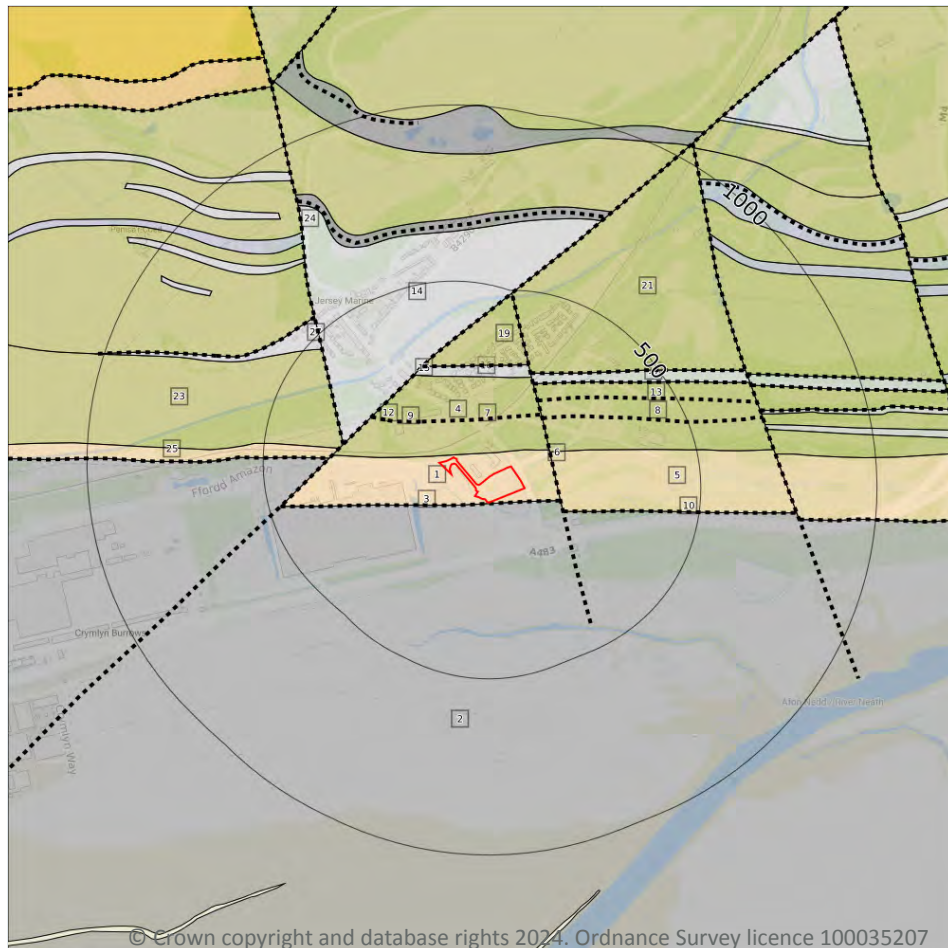
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

13

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 83](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	SWUCM-MDSS	South Wales Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
2	3m S	SWMCM-MDSS	South Wales Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
4	7m NW	LLFB-SDST	Llynfi Member - Sandstone	Bolsovian Sub-age



ID	Location	LEX Code	Description	Rock age
5	92m E	SWUCM-MDSS	South Wales Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
8	114m NE	LLFB-SDST	Llynfi Member - Sandstone	Bolsovian Sub-age
14	228m NW	LLFB-MDSS	Llynfi Member - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age
16	230m N	LLFB-MDSS	Llynfi Member - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age
17	243m N	LLFB-MDSS	Llynfi Member - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age
19	259m N	RA-SDST	Rhondda Member - Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
21	271m N	RA-SDST	Rhondda Member - Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
23	278m W	LLFB-SDST	Llynfi Member - Sandstone	Bolsovian Sub-age
25	287m W	SWUCM-MDSS	South Wales Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
27	463m NW	LLFB-MDSS	Llynfi Member - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

14

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.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 83](#) >

ID	Location	Category	Description
3	3m S	FOSSIL_HORIZON	Fossil horizon, marine band (UCGMB (CONJECTURAL))
6	92m E	FAULT	Normal fault, inferred
7	104m NW	ROCK	Coal seam, inferred ()
9	127m NW	ROCK	Coal seam, observed ()
10	128m E	FOSSIL_HORIZON	Fossil horizon, marine band (UCGMB (CONJECTURAL))
11	164m NE	ROCK	Coal seam, inferred ()
12	190m NW	ROCK	Coal seam, inferred ()

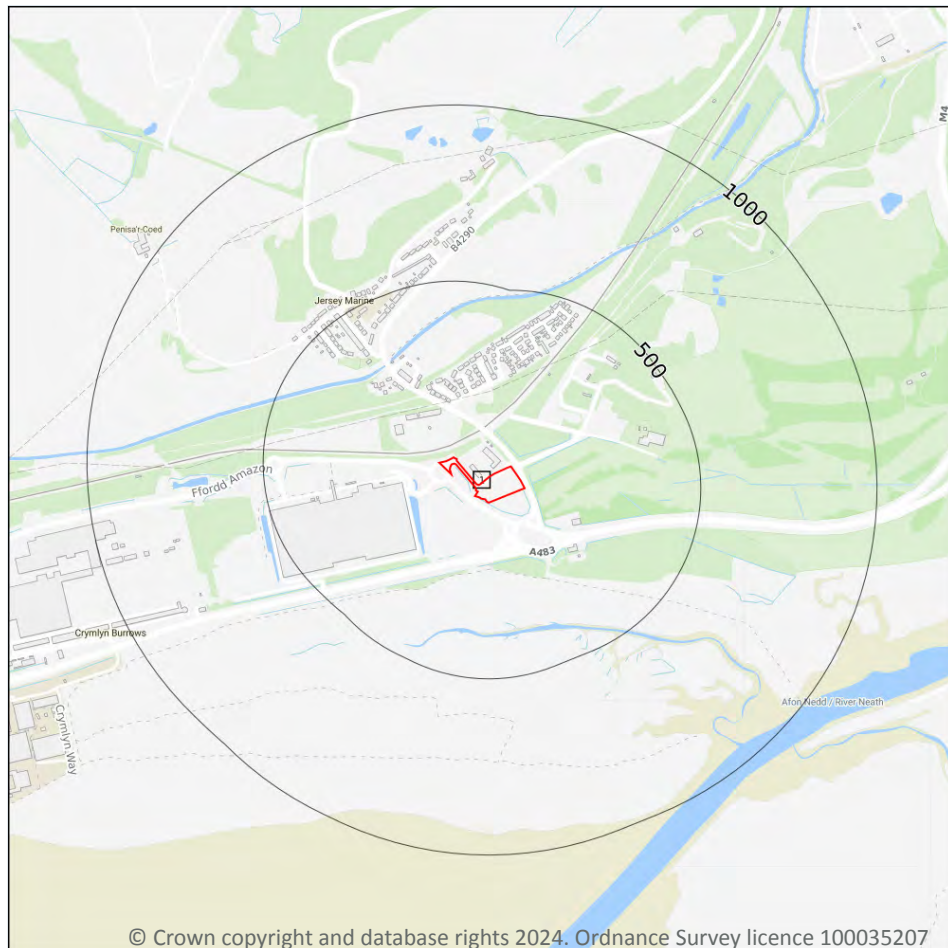


ID	Location	Category	Description
13	202m NE	ROCK	Coal seam, inferred ()
15	228m NW	FAULT	Normal fault, inferred
18	243m N	ROCK	Coal seam, inferred ()
20	259m N	ROCK	Coal seam, inferred ()
22	271m N	ROCK	Coal seam, inferred (WERNDDU)
24	278m W	FAULT	Normal fault, inferred
26	312m W	FOSSIL_HORIZON	Fossil horizon, marine band (UPPER CWMGORSE MARINE BAND)

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

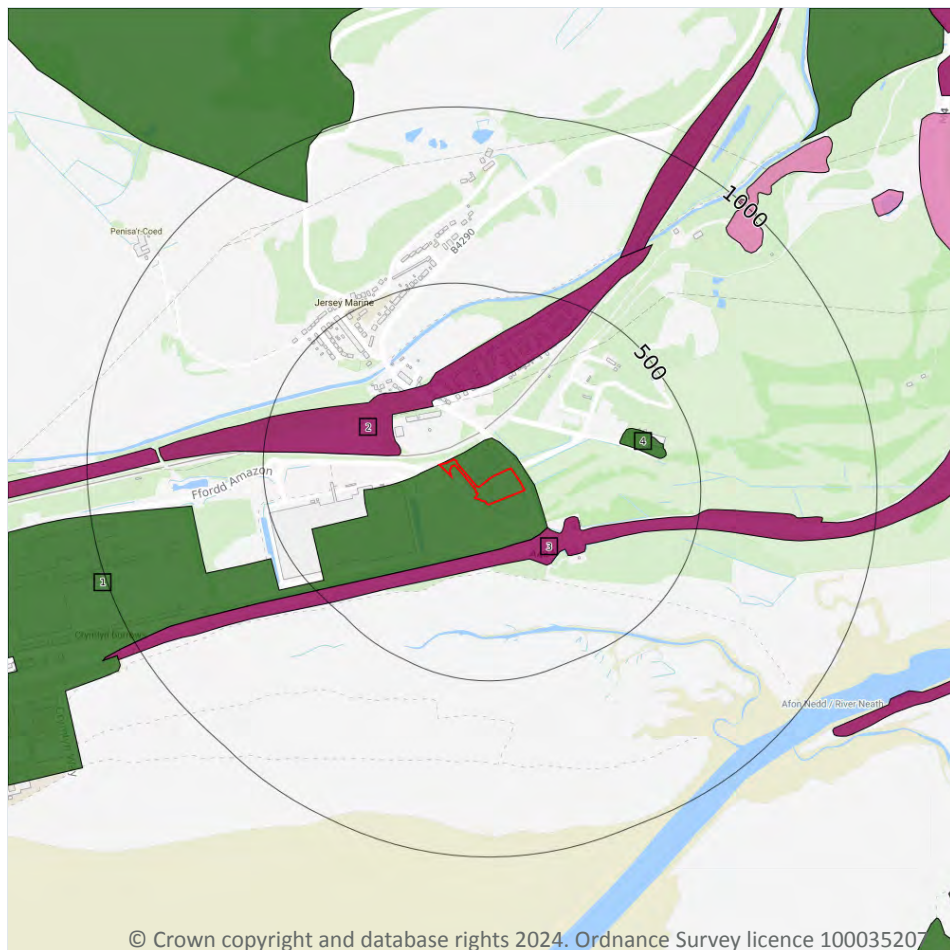
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 86](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW247_swansea_v4

This data is sourced from the British Geological Survey.



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



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

15.2 Artificial and made ground (50k)

Records within 500m

4

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 87 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND
2	115m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	124m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	302m E	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND



This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

1

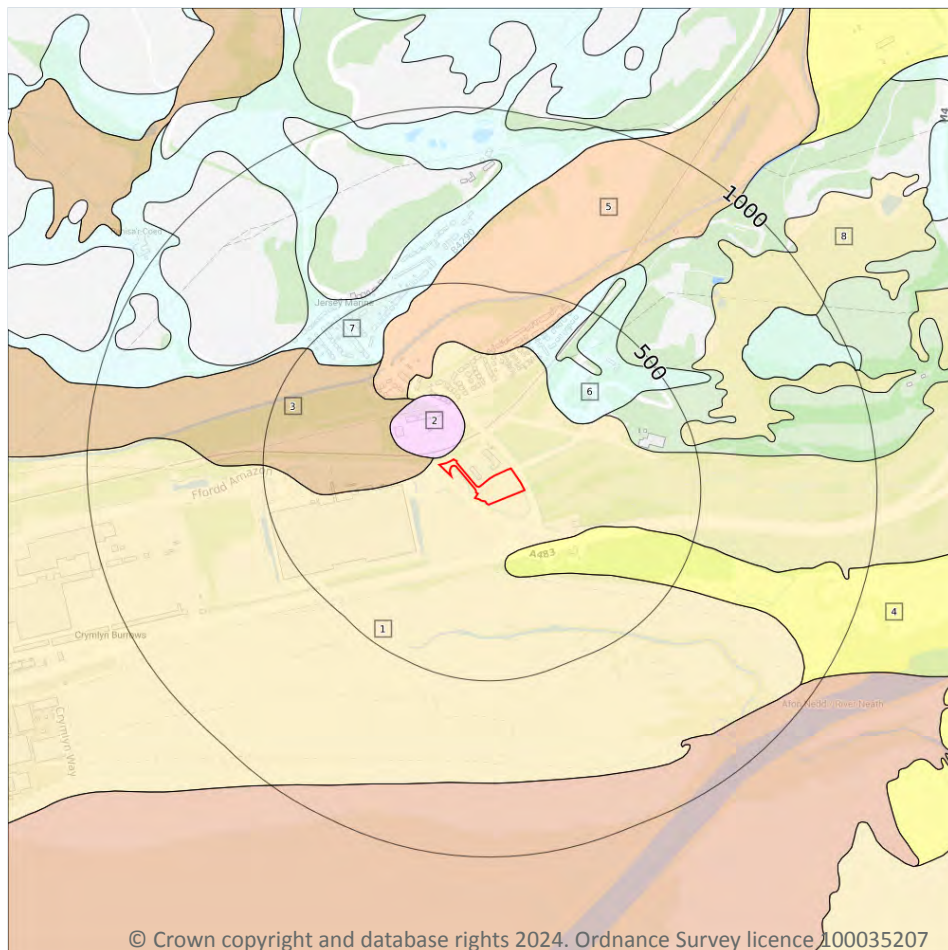
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

▣ Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

8

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 89](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	BSA-S	BLOWN SAND	SAND
2	20m NW	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
3	24m W	PEAT-P	PEAT	PEAT
4	151m S	TFD-XCZS	TIDAL FLAT DEPOSITS	CLAY, SILT AND SAND



ID	Location	LEX Code	Description	Rock description
5	208m NW	RSBD-XSV	RAISED STORM BEACH DEPOSITS	SAND AND GRAVEL
6	214m NE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
7	337m NW	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
8	470m E	BSA-S	BLOWN SAND	SAND

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	3
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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	High
20m NW	Intergranular	Very High	High
24m W	Mixed	Low	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0
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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
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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.

