

APPENDIX A

GROUNDSURE REPORT



Rhondda Geotechnical Services
56, MEYLER STREET,
PORTH/TONYREFAIL, CF39 8EA

Groundsure Reference: GS-5289676

Your Reference: Bryn

Report Date 2 Aug 2018

Report Delivery Method: Email - pdf

Enviro Insight

Address: 281450, 192477,

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviro Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,

Managing Director
Groundsure Limited

Enc.
Groundsure Enviroinsight

Address: 281450, 192477,
Date: 2 Aug 2018
Reference: GS-5289676
Client: Rhondda Geotechnical Services



Aerial Photograph Capture date: 01-Jul-2014
Grid Reference: 281450,192477
Site Size: 1.18ha

Report Reference: GS-5289676
Client Reference: Bryn

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Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	4	10	64	124
1.2 Additional Information – Historical Tank Database	0	0	5	7
1.3 Additional Information – Historical Energy Features Database	0	0	0	7
1.4 Additional Information – Historical Petrol and Fuel Site Database	0	0	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	0	0	0	5
1.6 Historical military sites	0	0	0	0
1.7 Potentially Infilled Land	4	10	52	106
Section 2: Environmental Permits, Incidents and Registers	On-site	0-50m	51-250	251-500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
2.1.1 Records of historic IPC Authorisations	0	0	0	0
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
2.1.3 Records of Red List Discharge Consents	0	0	0	0
2.1.4 Records of List 1 Dangerous Substances Inventory sites	0	0	0	0
2.1.5 Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	0	0	0	0
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	0	0	0	1
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHHS sites	0	0	0	0
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	0	1	5
2.3.2 National Incidents Recording System, List 1	0	0	0	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
3.1 Landfill Sites						
3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites	0	0	0	0	0	Not searched
3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites	0	0	0	0	0	0
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	0	0
3.2 Landfill and Other Waste Sites Findings						
3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	0	0	5	0

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
4.1 Current Industrial Sites Data	0	0	7	Not searched
4.2 Records of Petrol and Fuel Sites	0	0	0	0
4.3 National Grid Underground Electricity Cables	0	0	0	0
4.4 National Grid Gas Transmission Pipelines	0	0	0	0

Section 5: Geology	
5.1 Records of Artificial Ground and Made Ground present beneath the study site	None identified
5.2 Records of Superficial Ground and Drift Geology present beneath the study site	Identified
5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 6: Hydrogeology and Hydrology	0-500m					
6.1 Records of Strata Classification in the Superficial Geology within 500m of the study site	Identified					
6.2 Records of Strata Classification in the Bedrock Geology within 500m of the study site	Identified					
	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
6.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	Not searched	Not searched
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	2	0	#250GWV #	#500GWV #	Not searched	Not searched

Section 6: Hydrogeology and Hydrology

0-500m

	On-site	0-50m	51-250	251-500	501-1000	1000-1500
6.9 Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site	No	No	No	Yes	No	No
6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site	0	0	32	98	Not searched	Not searched
6.11 Surface water features within 250m of the study site	No	Yes	Yes	Not searched	Not searched	Not searched

Section 7: Flooding

7.1 Environment Agency Zone 2 floodplains within 250m of the study site	Identified					
7.2 Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site	Identified					
7.3 Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site	Very Low					
7.4 Flood Defences within 250m of the study site	None identified					
7.5 Areas benefiting from Flood Defences within 250m of the study site	None identified					
7.6 Areas used for Flood Storage within 250m of the study site	None identified					
7.7 Maximum BGS Groundwater Flooding susceptibility within 50m of the study site	Limited potential					
7.8 BGS confidence rating for the Groundwater Flooding susceptibility areas	High					

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	1	1	21	51
8.7 Records of Local Nature Reserves (LNR)	0	0	1	0	0	0
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0

Section 8: Designated Environmentally Sensitive Sites	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
8.11 Records of National Parks	0	0	0	0	0	0
8.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
8.13 Records of Nitrate Vulnerable Zones	0	0	0	0	0	0
8.14 Records of Green Belt land	0	0	0	0	0	0

Section 9: Natural Hazards	
9.1 Maximum risk of natural ground subsidence	Very Low
9.1.1 Maximum Shrink-Swell hazard rating identified on the study site	Very Low
9.1.2 Maximum Landslides hazard rating identified on the study site	Moderate
9.1.3 Maximum Soluble Rocks hazard rating identified on the study site	Negligible
9.1.4 Maximum Compressible Ground hazard rating identified on the study site	Negligible
9.1.5 Maximum Collapsible Rocks hazard rating identified on the study site	Very Low
9.1.6 Maximum Running Sand hazard rating identified on the study site	Very Low
9.2 Radon	
9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The site is in a Radon Affected Area, as between 3 and 5% of properties are above the Action Level.
9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	Basic radon protective measures are necessary.

Section 10: Mining	
10.1 Coal mining areas within 75m of the study site	Identified
10.2 Non-Coal Mining areas within 50m of the study site boundary	None identified
10.3 Brine affected areas within 75m of the study site	None identified

Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licences, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

11. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

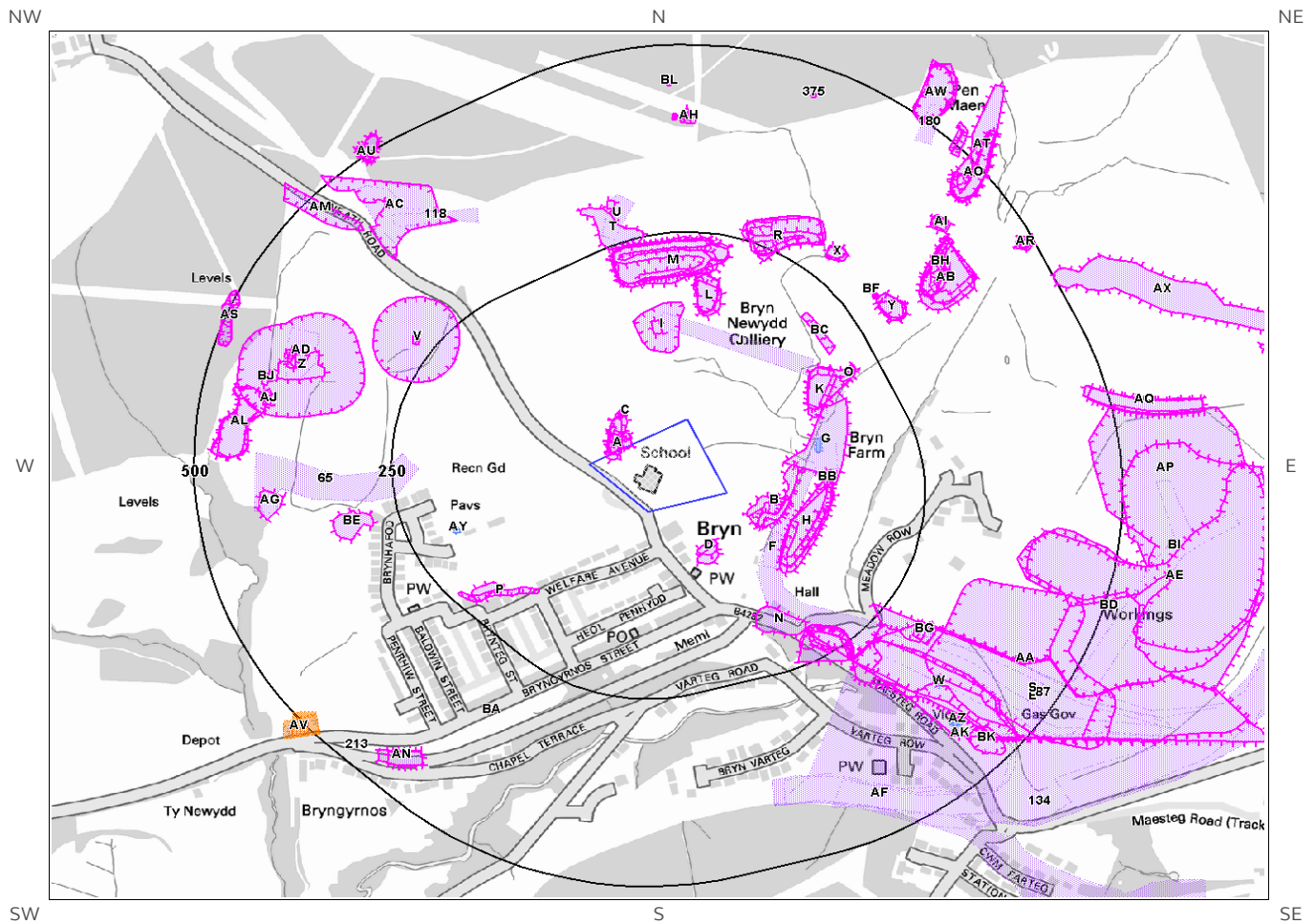
Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

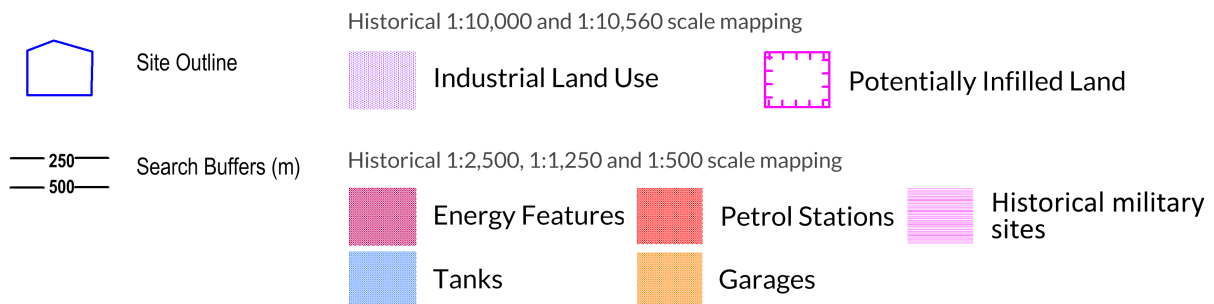
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

1. Historical Land Use



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1. Historical Industrial Sites

1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 202

ID	Distance [m]	Direction	Use	Date
1A	0	On Site	Unspecified Heap	1921
2A	0	On Site	Trial Level	1897
3A	0	NW	Unspecified Ground Workings	1947
4A	0	NW	Unspecified Heap	1914
5B	35	SE	Unspecified Old Quarries	1914
6B	35	SE	Unspecified Old Quarries	1921
7C	37	NW	Unspecified Old Shaft	1897
8C	37	NW	Unspecified Disused Shaft	1989
9C	37	NW	Unspecified Disused Shaft	1988
10C	37	NW	Unspecified Disused Shaft	1964
11C	42	NW	Unspecified Old Shaft	1947
12C	42	NW	Unspecified Old Shaft	1921
13C	42	NW	Unspecified Old Shaft	1914
14B	50	SE	Unspecified Ground Workings	1947
15B	51	SE	Unspecified Ground Workings	1921
16D	56	S	Unspecified Heap	1914
17D	64	S	Unspecified Heap	1921
18E	70	E	Mineral Railway Sidings	1964
19E	70	E	Mineral Railway Sidings	1988
20F	78	SE	Tramway Sidings	1914
21F	78	SE	Tramway Sidings	1921
22G	81	NE	Disused Brick Works	1914
23G	81	NE	Disused Brick Works	1921
24H	88	SE	Unspecified Heap	1914
25F	88	SE	Railway Building	1914
26H	88	SE	Unspecified Heap	1947
27H	89	SE	Unspecified Heap	1921
28I	91	N	Refuse Heap	1989
29I	91	N	Refuse Heap	1988
30I	91	N	Refuse Heap	1964
31G	101	E	Tramway Sidings	1897
32J	106	N	Tramway Sidings	1989

33J	106	N	Tramway Sidings	1988
34J	106	N	Tramway Sidings	1964
35BB	113	E	Coal Levels	1897
36H	115	E	Coal Levels	1897
37I	119	N	Unspecified Level	1988
38I	119	N	Unspecified Level	1989
39I	119	N	Unspecified Level	1964
40G	124	NE	Unspecified Tanks	1921
41G	124	NE	Unspecified Tanks	1914
42L	140	N	Unspecified Heap	1897
43K	140	NE	Clay Pit	1921
44K	144	NE	Unspecified Old Levels	1947
45L	144	N	Unspecified Heap	1947
46M	145	N	Unspecified Ground Workings	1921
47M	145	N	Unspecified Ground Workings	1914
48K	146	NE	Clay Pit	1914
49N	159	S	Unspecified Heap	1921
50N	159	S	Unspecified Heap	1914
51P	168	SW	Unspecified Ground Workings	1914
52M	183	N	Unspecified Ground Workings	1897
53M	190	N	Unspecified Ground Workings	1989
54M	190	N	Unspecified Ground Workings	1988
55M	190	N	Unspecified Ground Workings	1964
56M	192	N	Unspecified Ground Workings	1947
57O	195	NE	Old Coal Levels	1921
58O	195	NE	Old Coal Levels	1914
59P	196	SW	Unspecified Heap	1947
60BC	198	NE	Old Coal Levels	1897
61Q	205	SE	Unspecified Ground Workings	1914
62Q	206	SE	Unspecified Heap	1947
63Q	210	SE	Old Coal Levels	1897
64Q	215	SE	Unspecified Heap	1921
65	216	W	Railway Sidings	1947
66V	218	NW	Unspecified Slant	1964
67R	233	NE	Unspecified Ground Workings	1988
68R	233	NE	Unspecified Ground Workings	1989
69R	233	NE	Unspecified Ground Workings	1964
70S	236	SE	Colliery	1914

71S	236	SE	Colliery	1921
72R	237	NE	Unspecified Ground Workings	1947
73R	240	NE	Unspecified Ground Workings	1921
74R	240	NE	Unspecified Ground Workings	1914
75R	240	NE	Unspecified Ground Workings	1897
76T	240	N	Refuse Heap	1988
77T	240	N	Refuse Heap	1989
78T	240	N	Refuse Heap	1964
79U	257	N	Tramway Sidings	1988
80U	257	N	Tramway Sidings	1989
81U	257	N	Tramway Sidings	1964
82AK	263	SE	Railway Sidings	1921
83E	266	SE	Disused Colliery	1897
84S	266	SE	Tramway Sidings	1897
85V	268	NW	Unspecified Slant	1989
86V	268	NW	Unspecified Slant	1988
87	269	SE	Tramway Sidings	1947
88W	269	SE	Refuse Heap	1947
89BD	269	SE	Colliery	1947
90W	270	SE	Refuse Heap	1914
91W	271	SE	Refuse Heap	1921
92X	279	NE	Unspecified Old Level	1947
93X	282	NE	Unspecified Heap	1914
94X	282	NE	Unspecified Heap	1921
95BE	284	W	Unspecified Quarry	1877
96Y	285	NE	Unspecified Disused Level	1988
97Y	285	NE	Unspecified Disused Level	1989
98Y	285	NE	Unspecified Disused Level	1964
99Y	286	NE	Unspecified Heap	1947
100Y	287	NE	Unspecified Old Shaft	1897
101Y	287	NE	Old Coal Level	1921
102Y	287	NE	Old Coal Level	1914
103U	296	N	Unspecified Level	1989
104U	296	N	Unspecified Level	1988
105U	296	N	Unspecified Level	1964
106BG	296	SE	Old Coal Levels	1897
107Z	304	W	Unspecified Slant	1988
108Z	304	W	Unspecified Slant	1964
109S	319	SE	Tramway Sidings	1914
110AA	325	SE	Unspecified Mine	1988
111AA	325	SE	Unspecified Mine	1964
112AB	336	NE	Unspecified Heap	1921
113AB	343	NE	Unspecified Heap	1964

114AB	343	NE	Unspecified Heap	1947
115AB	346	NE	Unspecified Ground Workings	1914
116AB	346	NE	Unspecified Heap	1988
117AB	346	NE	Unspecified Heap	1989
118	351	NW	Railway Sidings	1964
119Z	354	W	Refuse Heap	1989
120BH	355	NE	Old Coal Levels	1897
121AC	365	NW	Refuse Heap	1988
122AC	365	NW	Refuse Heap	1989
123AC	365	NW	Refuse Heap	1964
124AC	366	NW	Railway Sidings	1989
125AC	366	NW	Railway Sidings	1988
126AD	371	W	Railway Sidings	1964
127AD	371	W	Railway Sidings	1988
128AD	371	W	Railway Sidings	1989
129AE	377	E	Unspecified Ground Workings	1988
130AE	377	E	Unspecified Ground Workings	1964
131AF	386	S	Railway Sidings	1897
132AF	386	S	Railway Sidings	1914
133AF	386	S	Railway Sidings	1875
134	389	S	Railway Sidings	1947
135AG	389	W	Unspecified Heap	1989
136AG	389	W	Unspecified Heap	1988
137AG	389	W	Unspecified Heap	1964
138BI	390	E	Refuse Heap	1947
139AD	393	W	Unspecified Slant	1914
140AH	395	N	Old Coal Level	1897
141AH	399	N	Unspecified Old Level	1947
142AD	400	W	Unspecified Slant	1989
143AH	400	N	Unspecified Old Shaft	1947
144AI	401	NE	Unspecified Heap	1947
145AH	403	N	Old Coal Level	1921
146AH	403	N	Old Coal Level	1914
147AH	404	N	Old Air Shaft	1914
148AH	404	N	Old Air Shaft	1921
149AI	405	NE	Unspecified Pit	1921
150AI	405	NE	Unspecified Pit	1914
151AJ	410	W	Unspecified Disused Slant	1921
152AJ	411	W	Unspecified Disused Slant	1914
153AZ	412	SE	Unspecified Tanks	1947
154AK	414	SE	Unspecified Tanks	1914
155AK	414	SE	Unspecified Tanks	1921
156AL	417	W	Refuse Heap	1914
157AL	417	W	Refuse Heap	1921

158AL	417	W	Unspecified Disused Slant	1947
159BJ	420	W	Unspecified Slant	1921
160AM	422	NW	Refuse Heap	1989
161AM	422	NW	Refuse Heap	1988
162AM	422	NW	Refuse Heap	1964
163AL	424	W	Unspecified Heap	1988
164AL	424	W	Unspecified Heap	1989
165AL	424	W	Unspecified Heap	1964
166AN	428	SW	Cuttings	1875
167AN	430	SW	Cuttings	1947
168BL	446	N	Old Air Shaft	1897
169AO	449	NE	Unspecified Heap	1947
170AO	450	NE	Unspecified Heap	1921
171AO	450	NE	Unspecified Heap	1914
172AT	450	NE	Unspecified Ground Workings	1897
173AO	452	NE	Unspecified Ground Workings	1989
174AO	452	NE	Unspecified Ground Workings	1988
175AO	452	NE	Unspecified Ground Workings	1964
176AP	463	E	Refuse Heap	1988
177AP	463	E	Refuse Heap	1964
178AQ	469	E	Cuttings	1914
179AQ	469	E	Cuttings	1921
180	471	NE	Tramway Sidings	1921
181AQ	473	E	Cuttings	1947
182AR	474	NE	Unspecified Heap	1947
183AR	478	NE	Unspecified Heap	1921
184AR	478	NE	Unspecified Heap	1914
185AS	482	W	Unspecified Old Levels	1947
186AS	482	W	Old Trial Levels	1914
187AS	482	W	Old Trial Levels	1921
188AU	485	NW	Old Trial Level	1897
189AT	487	NE	Unspecified Ground Workings	1897
190AT	489	NE	Unspecified Ground Workings	1914
191AU	490	NW	Unspecified Old Level	1947
192AU	493	NW	Old Trial Level	1914
193AU	493	NW	Old Trial Level	1921
194AW	494	NE	Unspecified Quarry	1964
195AV	494	SW	Garage	1989
196AV	494	SW	Garage	1964
197AV	494	SW	Garage	1988
198AW	498	NE	Unspecified Heap	1947
199AX	499	NE	Old Coal Levels	1921

200AX	499	NE	Old Coal Levels	1914
201AW	500	NE	Unspecified Quarry	1988
202AW	500	NE	Unspecified Quarry	1989

1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary:

12

ID	Distance (m)	Direction	Use	Date
203G	125	NE	Tanks	1918
204AY	186	SW	Unspecified Tank	1937
205AY	186	SW	Unspecified Tank	1961
206AY	186	SW	Unspecified Tank	1976
207AY	188	SW	Unspecified Tank	1977
208BF	286	NE	Unspecified Tank	1918
209W	371	SE	Unspecified Tank	1961
210AZ	413	SE	Tanks	1940
211AZ	413	SE	Tanks	1961
212AZ	416	SE	Tanks	1918
213	479	SW	Unspecified Tank	1881
214AV	487	SW	Tanks	1961

1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary:

7

ID	Distance (m)	Direction	Use	Date
215BA	331	SW	Electricity Substation	1976
216BA	331	SW	Electricity Substation	1988
217BA	331	SW	Electricity Substation	1993
218BA	331	SW	Electricity Substation	1996
219BA	331	SW	Electricity Substation	1988
220BA	331	SW	Electricity Substation	1993
221BA	333	SW	Electricity Substation	1977

1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 0

Database searched and no data found.

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 5

ID	Distance (m)	Direction	Use	Date
222AV	478	SW	Garage	1977
223AV	479	SW	Garage	1988
224AV	481	SW	Garage	1993
225AV	481	SW	Garage	1976
226AV	484	SW	Garage	1961

1.6 Historical military sites

Certain military installations were not noted on historic mapping for security reasons. Whilst not all military land is necessarily of concern, Groundsure has researched and digitised a number of Ordnance Factories and other military industrial features (e.g. Ordnance Depots, Munitions Testing Grounds) which may be of contaminative concern. This research was drawn from a number of different sources, and should not be regarded as a definitive or exhaustive database of potentially contaminative military installations. The boundaries of sites within this database have been estimated from the best evidence available to Groundsure at the time of compilation.

Records of historical military sites within 500m of the search boundary: 0

Database searched and no data found.

1.7 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 172

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

ID	Distance(m)	Direction	Use	Date
227A	0	On Site	Unspecified Heap	1921
228A	0	On Site	Trial Level	1897
229A	0	NW	Unspecified Ground Workings	1947

230A	0	NW	Unspecified Heap	1914
231B	35	SE	Unspecified Old Quarries	1921
232B	35	SE	Unspecified Old Quarries	1914
233C	37	NW	Unspecified Old Shaft	1897
234C	37	NW	Unspecified Disused Shaft	1964
235C	37	NW	Unspecified Disused Shaft	1988
236C	37	NW	Unspecified Disused Shaft	1989
237C	42	NW	Unspecified Old Shaft	1947
238C	42	NW	Unspecified Old Shaft	1921
239C	42	NW	Unspecified Old Shaft	1914
240B	50	SE	Unspecified Ground Workings	1947
241B	51	SE	Unspecified Ground Workings	1921
242D	56	S	Unspecified Heap	1914
243D	64	S	Unspecified Heap	1921
244G	81	NE	Disused Brick Works	1921
245G	81	NE	Disused Brick Works	1914
246H	88	SE	Unspecified Heap	1914
247H	88	SE	Unspecified Heap	1947
248H	89	SE	Unspecified Heap	1921
249I	91	N	Refuse Heap	1964
250I	91	N	Refuse Heap	1988
251I	91	N	Refuse Heap	1989
252BB	113	E	Coal Levels	1897
253H	115	E	Coal Levels	1897
254I	119	N	Unspecified Level	1988
255I	119	N	Unspecified Level	1989
256I	119	N	Unspecified Level	1964
257L	140	N	Unspecified Heap	1897
258K	140	NE	Clay Pit	1921
259K	144	NE	Unspecified Old Levels	1947
260L	144	N	Unspecified Heap	1947
261M	145	N	Unspecified Ground Workings	1914
262M	145	N	Unspecified Ground Workings	1921
263K	146	NE	Clay Pit	1914
264N	159	S	Unspecified Heap	1921
265N	159	S	Unspecified Heap	1914
266P	168	SW	Unspecified Ground Workings	1914
267M	183	N	Unspecified Ground Workings	1897
268M	190	N	Unspecified Ground Workings	1989
269M	190	N	Unspecified Ground Workings	1988

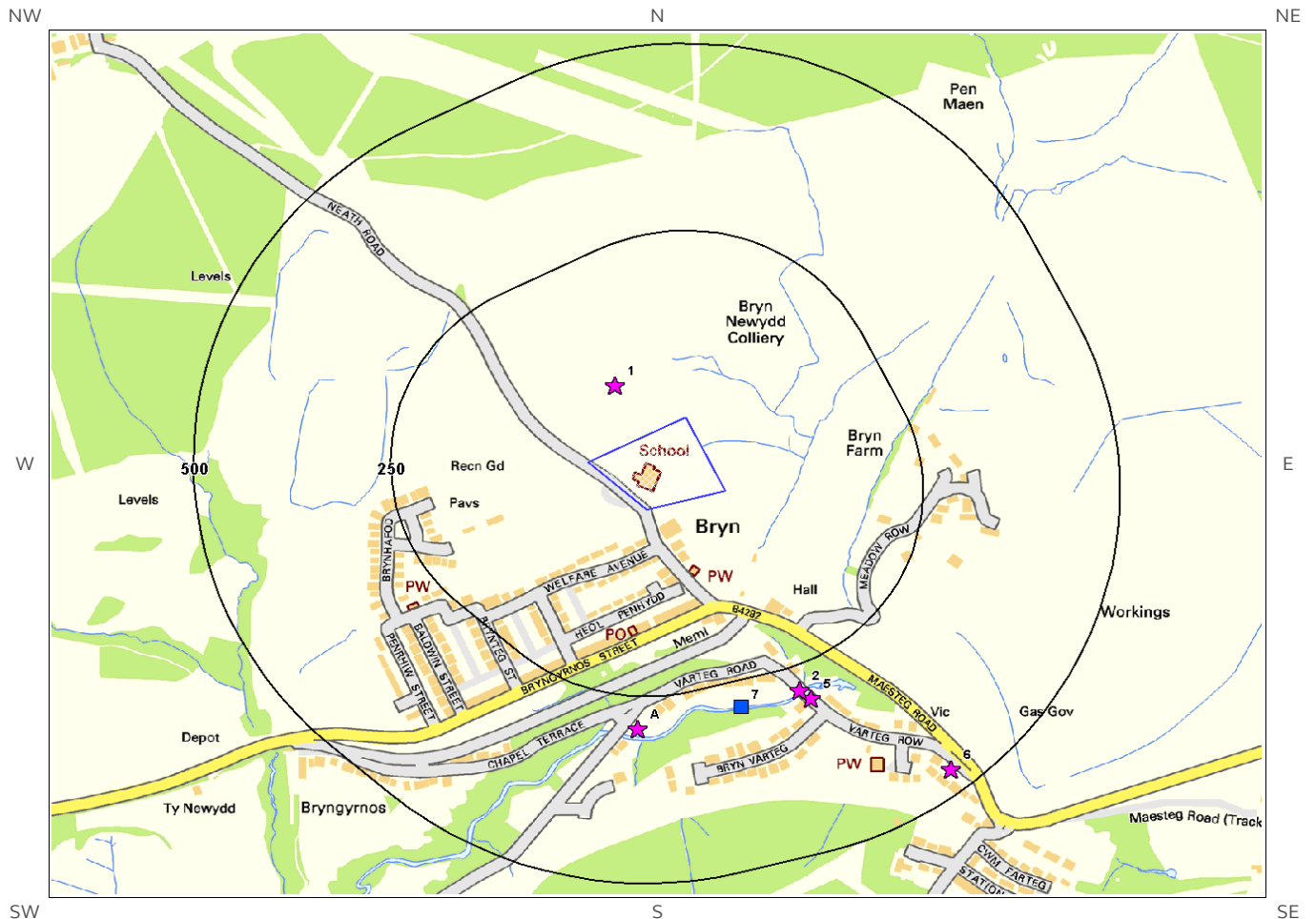
270M	190	N	Unspecified Ground Workings	1964
271M	192	N	Unspecified Ground Workings	1947
272O	195	NE	Old Coal Levels	1914
273O	195	NE	Old Coal Levels	1921
274P	196	SW	Unspecified Heap	1947
275BC	198	NE	Old Coal Levels	1897
276Q	205	SE	Unspecified Ground Workings	1914
277Q	206	SE	Unspecified Heap	1947
278Q	210	SE	Old Coal Levels	1897
279Q	215	SE	Unspecified Heap	1921
280V	218	NW	Unspecified Slant	1964
281R	233	NE	Unspecified Ground Workings	1988
282R	233	NE	Unspecified Ground Workings	1964
283R	233	NE	Unspecified Ground Workings	1989
284S	236	SE	Colliery	1914
285S	236	SE	Colliery	1921
286R	237	NE	Unspecified Ground Workings	1947
287R	240	NE	Unspecified Ground Workings	1921
288R	240	NE	Unspecified Ground Workings	1914
289R	240	NE	Unspecified Ground Workings	1897
290T	240	N	Refuse Heap	1964
291T	240	N	Refuse Heap	1989
292T	240	N	Refuse Heap	1988
293E	266	SE	Disused Colliery	1897
294V	268	NW	Unspecified Slant	1988
295V	268	NW	Unspecified Slant	1989
296BD	269	SE	Colliery	1947
297W	269	SE	Refuse Heap	1947
298W	270	SE	Refuse Heap	1914
299W	271	SE	Refuse Heap	1921
300X	279	NE	Unspecified Old Level	1947
301X	282	NE	Unspecified Heap	1914
302X	282	NE	Unspecified Heap	1921
303BE	284	W	Unspecified Quarry	1877
304Y	285	NE	Unspecified Disused Level	1964
305Y	285	NE	Unspecified Disused Level	1988
306Y	285	NE	Unspecified Disused Level	1989
307Y	286	NE	Unspecified Heap	1947
308BF	287	NE	Unspecified Old Shaft	1897

309BF	287	NE	Old Coal Level	1914
310BF	287	NE	Old Coal Level	1921
311U	296	N	Unspecified Level	1964
312U	296	N	Unspecified Level	1988
313U	296	N	Unspecified Level	1989
314BG	296	SE	Old Coal Levels	1897
315Z	304	W	Unspecified Slant	1964
316Z	304	W	Unspecified Slant	1988
317AA	325	SE	Unspecified Mine	1964
318AA	325	SE	Unspecified Mine	1988
319AB	336	NE	Unspecified Heap	1921
320AB	343	NE	Unspecified Heap	1964
321AB	343	NE	Unspecified Heap	1947
322AB	346	NE	Unspecified Ground Workings	1914
323AB	346	NE	Unspecified Heap	1988
324AB	346	NE	Unspecified Heap	1989
325Z	354	W	Refuse Heap	1989
326BH	355	NE	Old Coal Levels	1897
327AC	365	NW	Refuse Heap	1989
328AC	365	NW	Refuse Heap	1988
329AC	365	NW	Refuse Heap	1964
330AE	377	E	Unspecified Ground Workings	1964
331AE	377	E	Unspecified Ground Workings	1988
332AG	389	W	Unspecified Heap	1989
333AG	389	W	Unspecified Heap	1988
334AG	389	W	Unspecified Heap	1964
335BI	390	E	Refuse Heap	1947
336Z	393	W	Unspecified Slant	1914
337AH	395	N	Old Coal Level	1897
338AH	399	N	Unspecified Old Level	1947
339AD	399	W	Air Shaft	1947
340AD	400	W	Air Shaft	1921
341AD	400	W	Air Shaft	1914
342Z	400	W	Unspecified Slant	1989
343AH	400	N	Unspecified Old Shaft	1947
344AI	401	NE	Unspecified Heap	1947
345AH	403	N	Old Coal Level	1914
346AH	403	N	Old Coal Level	1921
347AH	404	N	Old Air Shaft	1921
348AH	404	N	Old Air Shaft	1914
349AI	405	NE	Unspecified Pit	1914
350AI	405	NE	Unspecified Pit	1921
351AJ	410	W	Unspecified Disused Slant	1921
352AJ	411	W	Unspecified Disused Slant	1914

353AL	417	W	Refuse Heap	1914
354AL	417	W	Refuse Heap	1921
355AL	417	W	Unspecified Disused Slant	1947
356BJ	420	W	Unspecified Slant	1921
357AM	422	NW	Refuse Heap	1988
358AM	422	NW	Refuse Heap	1964
359AM	422	NW	Refuse Heap	1989
360AL	424	W	Unspecified Heap	1964
361AL	424	W	Unspecified Heap	1989
362AL	424	W	Unspecified Heap	1988
363AN	428	SW	Cuttings	1875
364AN	430	SW	Cuttings	1947
365BK	443	SE	Pond	1964
366BK	443	SE	Pond	1988
367BL	446	N	Old Air Shaft	1897
368AO	449	NE	Unspecified Heap	1947
369AO	450	NE	Unspecified Heap	1914
370AO	450	NE	Unspecified Heap	1921
371AT	450	NE	Unspecified Ground Workings	1897
372AO	452	NE	Unspecified Ground Workings	1964
373AO	452	NE	Unspecified Ground Workings	1988
374AO	452	NE	Unspecified Ground Workings	1989
375	459	N	Air Shaft	1877
376AP	463	E	Refuse Heap	1988
377AP	463	E	Refuse Heap	1964
378AQ	469	E	Cuttings	1921
379AQ	469	E	Cuttings	1914
380AQ	473	E	Cuttings	1947
381AR	474	NE	Unspecified Heap	1947
382AR	478	NE	Unspecified Heap	1914
383AR	478	NE	Unspecified Heap	1921
384AS	482	W	Unspecified Old Levels	1947
385AS	482	W	Old Trial Levels	1914
386AS	482	W	Old Trial Levels	1921
387AU	485	NW	Old Trial Level	1897
388AT	487	NE	Unspecified Ground Workings	1897
389AT	489	NE	Unspecified Ground Workings	1914
390AU	490	NW	Unspecified Old Level	1947
391AU	493	NW	Old Trial Level	1914
392AU	493	NW	Old Trial Level	1921
393AW	494	NE	Unspecified Quarry	1964
394AW	498	NE	Unspecified Heap	1947

395AX	499	NE	Old Coal Levels	1914
396AX	499	NE	Old Coal Levels	1921
397AW	500	NE	Unspecified Quarry	1989
398AW	500	NE	Unspecified Quarry	1988

2. Environmental Permits, Incidents and Registers Map



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- | | | |
|--------------------|-------------------------------|--|
| Site Outline | Recorded Pollution Incident | RAS 3 & 4 Authorisations |
| Search Buffers (m) | Dangerous Substances (List 1) | Part A(1) Authorised Processes and Historic IPC Authorisations |
| | Dangerous Substances (List 2) | Part A(2) and Part B Authorised Processes |
| | Water Industry Referrals | COMAH / NIHHS Sites |
| | Licenced Discharge Consents | Sites Determined as Contaminated Land |
| | Red List Discharge Consents | Hazardous Substance Consents and Enforcements |

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency/Natural Resources Wales and Local Authorities reveal the following information:

2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

2.1.8 Records of Licensed Discharge Consents within 500m of the study site:

1

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details
7	285	S	281570 192160	Address: SURFACE WATER FROM FARTEG RD B Effluent Type: UNSPECIFIED Permit Number: BB4015401 Permit Version: 1 Receiving Water: RIVER FFRWDWYLLT Status: CONSENT EXPIRED - TIME LIMIT Issue date: 22/08/1975 Effective Date: 22-Aug-1975 Revocation Date: 07/12/1993

2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

0

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site:

0

Database searched and no data found.

2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

6

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details
1	77	NW	281410 192590	Incident Date: 03-Oct-2001 Incident Identification: 34471 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
2	282	S	281643 192182	Incident Date: 18-Jan-2002 Incident Identification: 53318 Pollutant: Sewage Materials Pollutant Description: Crude Sewage Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
3A	294	S	281438 192130	Incident Date: 11-Mar-2003 Incident Identification: 142436 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4A	294	S	281438 192130	Incident Date: 11-Mar-2003 Incident Identification: 142436 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
5	298	S	281658 192171	Incident Date: 01-Jun-2002 Incident Identification: 82501 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
6	468	SE	281836 192077	Incident Date: 29-Dec-2002 Incident Identification: 127891 Pollutant: Sewage Materials Pollutant Description: Storm Sewage Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

Database searched and no data found.

2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

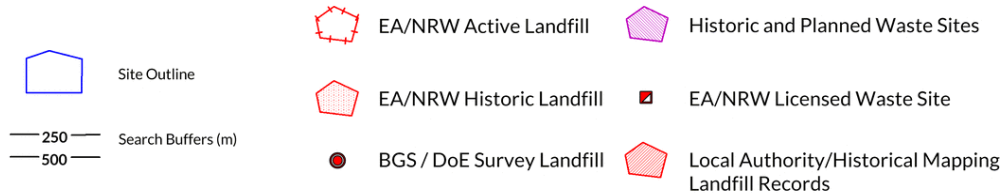
Records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site 0

Database searched and no data found.

3. Landfill and Other Waste Sites Map



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3. Landfill and Other Waste Sites

3.1 Landfill Sites

3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site:

0

Database searched and no data found.

3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site:

0

Database searched and no data found.

3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

0

Database searched and no data found.

3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

0

Database searched and no data found.

3.2 Other Waste Sites

3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

0

Database searched and no data found.

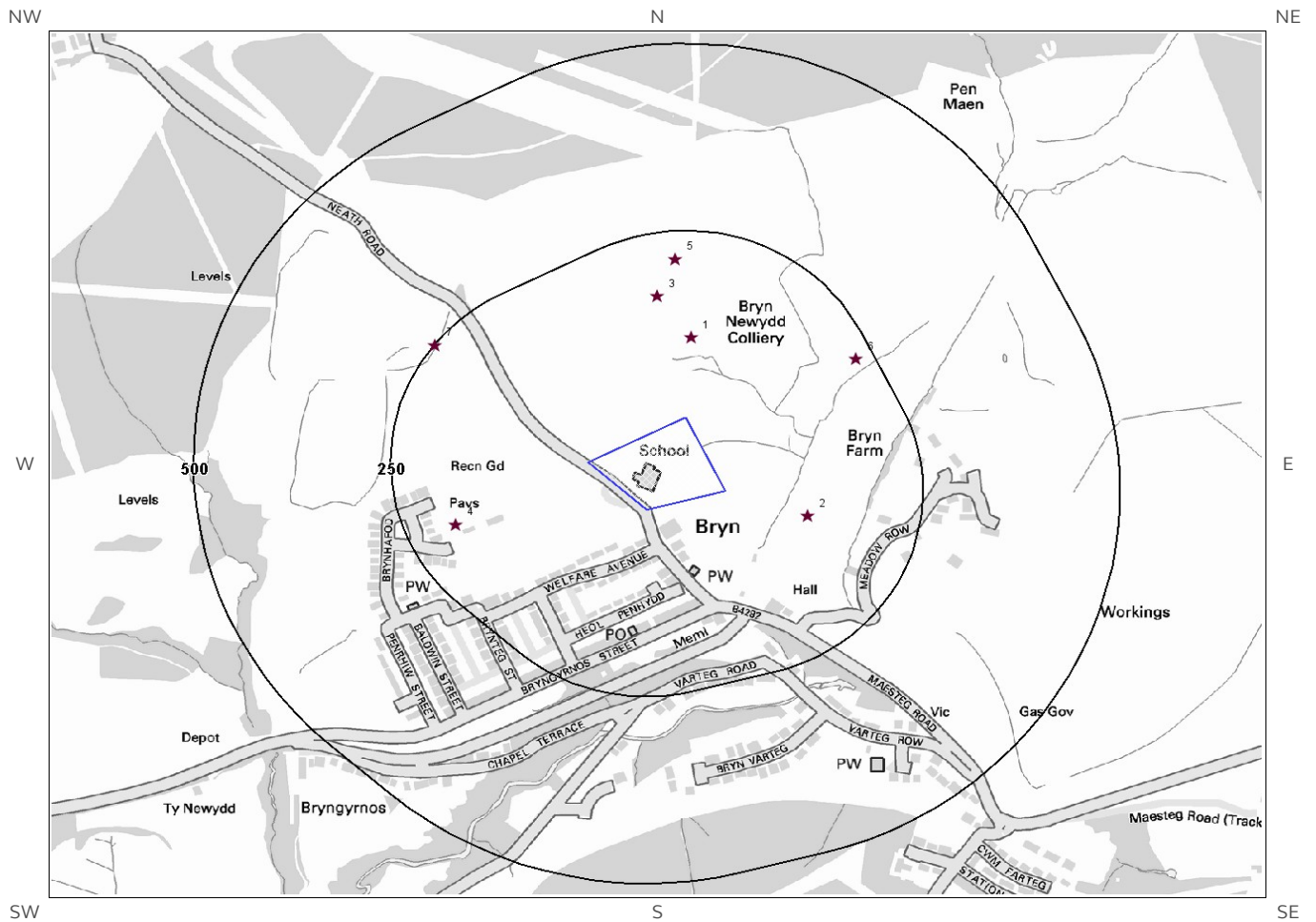
3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

5

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details
1A	782	NW	280715 192905	Site Address: Penhydd Farm, Bryn, Port Talbot, N P T, SA13 2RT Type: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: PEN024 EPR reference: WP3995ED/A001 Operator: Penhydd Farm Recovery Ltd Waste Management licence No: 100118 Annual Tonnage: 0.0 Issue Date: 03/10/2008 Effective Date: - Modified: - Surrendered Date: 0 Expiry Date: 0 Cancelled Date: 0 Status: Issued Site Name: Penhydd Farm Correspondence Address: -
2A	783	NW	280710 192900	Site Address: Penhydd Farm, Bryn, Port Talbot, Neath Port Talbot, SA13 2RT Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WP3995ED EPR reference: - Operator: Penhydd Farm Recovery Ltd Waste Management licence No: 0 Annual Tonnage: 24999.0 Issue Date: 03/10/2008 Effective Date: 03/10/2008 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -
3A	783	NW	280710 192900	Site Address: Penhydd Farm, Bryn, Port Talbot, N P T, SA13 2RT Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PEN024 EPR reference: EA/EPR/WP3995ED/A001 Operator: Penhydd Farm Recovery Ltd Waste Management licence No: 100118 Annual Tonnage: 24999.0 Issue Date: 03/10/2008 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Penhydd Farm Correspondence Address: -
4A	783	NW	280710 192900	Site Address: Penhydd Farm, Bryn, Port Talbot, N P T, SA13 2RT Type: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WP3995ED EPR reference: - Operator: - Waste Management licence No: 100118 Annual Tonnage: 24999.0 Issue Date: 03/10/2008 Effective Date: 03/10/2008 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -
5A	783	NW	280710 192900	Site Address: Penhydd Farm, Bryn, N P T, Port Talbot, Neath Port Talbot, SA13 2RT Type: Household, Commercial & Industrial Waste T Stn Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WP3995ED EPR reference: - Operator: Penhydd Farm Recovery Ltd Waste Management licence No: 100118 Annual Tonnage: 24999.0 Issue Date: 03/10/2008 Effective Date: 03/10/2008 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -

4. Current Land Use Map



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4. Current Land Uses

4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site:

7

The following records are represented as points on the Current Land Uses map.

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	108	N	Tip	281507 192655	SA13	Refuse Disposal Facilities	Infrastructure and Facilities
2	108	E	Refuse Tip (Disused)	281654 192416	SA13	Refuse Disposal Facilities	Infrastructure and Facilities
3	167	N	Bryn Newydd Colliery	281463 192710	SA13	Coal Mining	Extractive Industries
4	187	SW	Tank	281208 192405	SA13	Tanks (Generic)	Industrial Features
5	213	N	Refuse Tip (Disused)	281486 192760	SA13	Refuse Disposal Facilities	Infrastructure and Facilities
6	227	NE	Refuse Tip (Disused)	281715 192626	SA13	Refuse Disposal Facilities	Infrastructure and Facilities
7	250	NW	Refuse Tip (Disused)	281182 192645	SA13	Refuse Disposal Facilities	Infrastructure and Facilities

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site:

0

Database searched and no data found.

4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site:

0

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

5.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

5.3 Bedrock and Solid Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
SWMCM-SDST	SOUTH WALES MIDDLE COAL MEASURES FORMATION	SANDSTONE
SWMCM-MDSS	SOUTH WALES MIDDLE COAL MEASURES FORMATION	MUDSTONE, SILTSTONE AND SANDSTONE
SWMCM-SDST	SOUTH WALES MIDDLE COAL MEASURES FORMATION	SANDSTONE

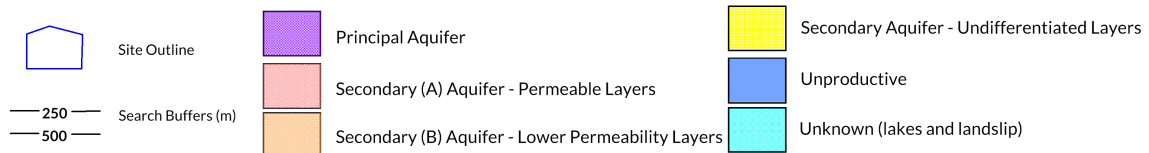
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

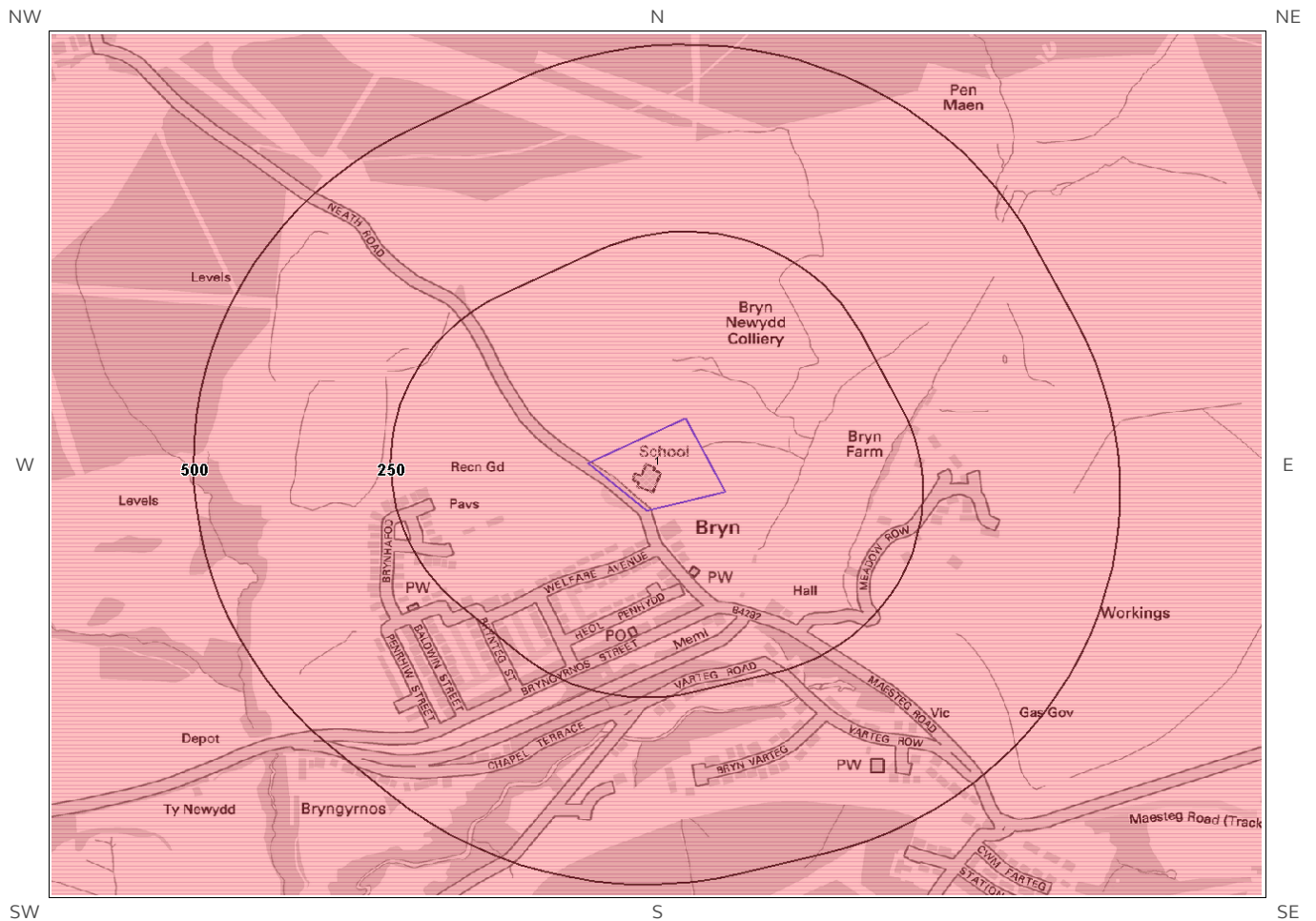
6a. Aquifer Within Superficial Geology



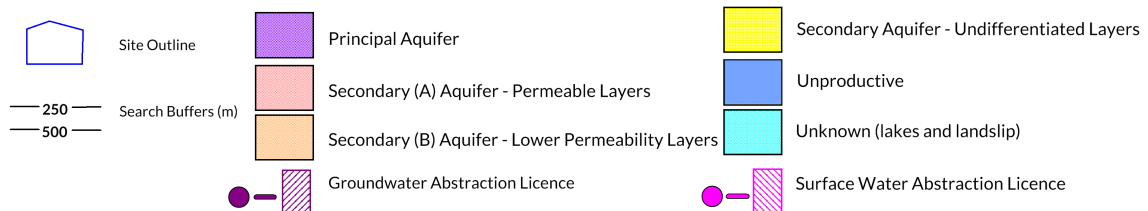
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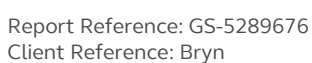
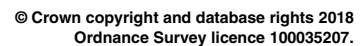


6b. Aquifer Within Bedrock Geology and Abstraction Licences

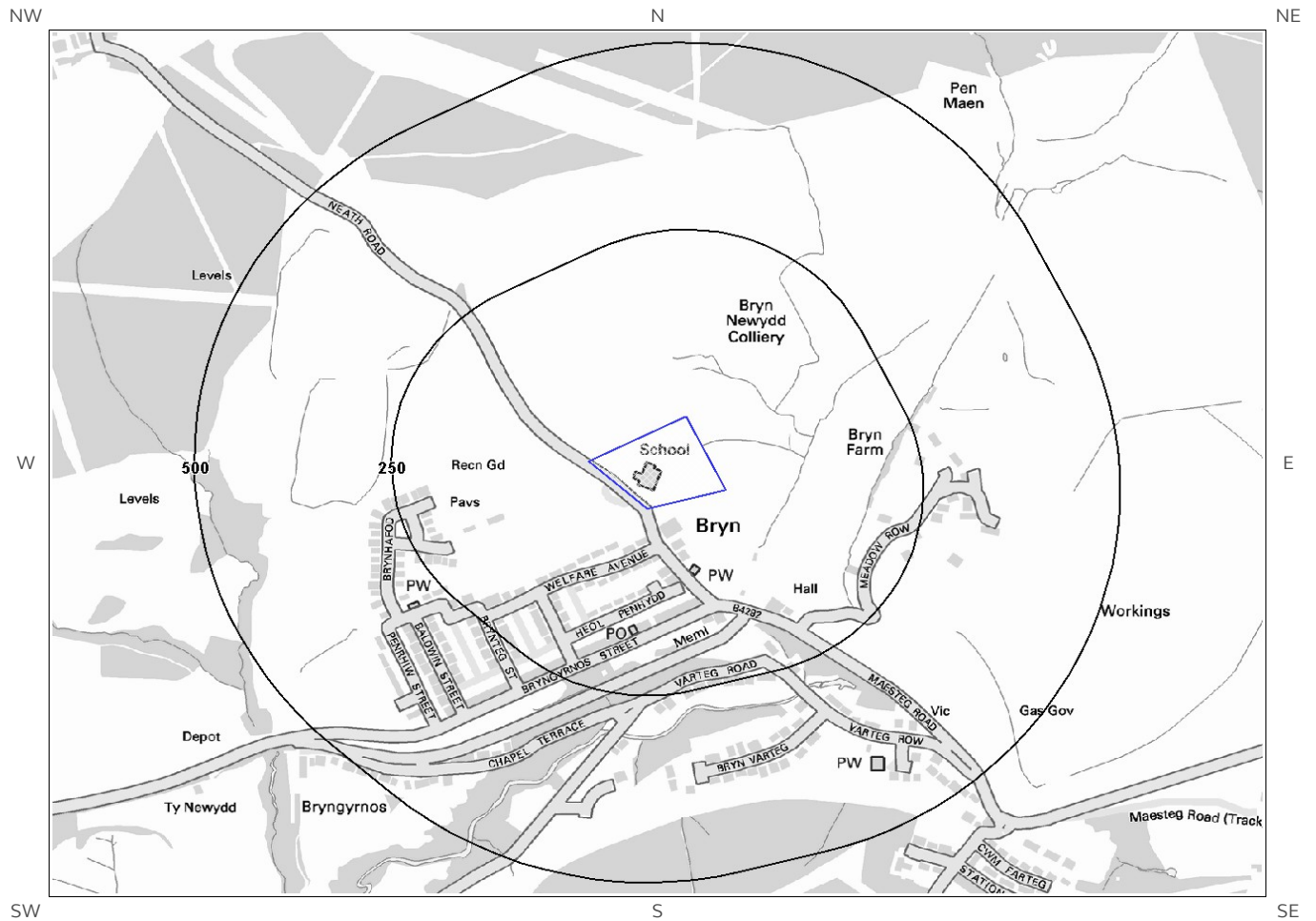


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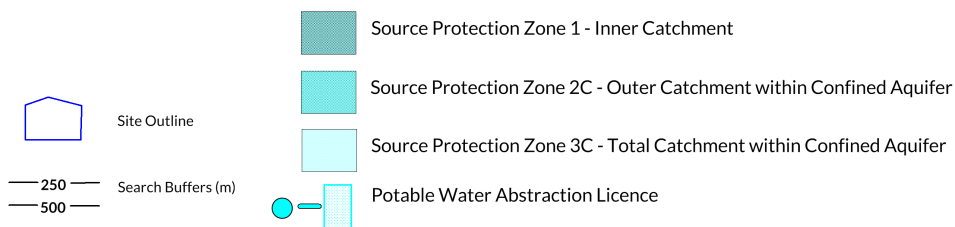




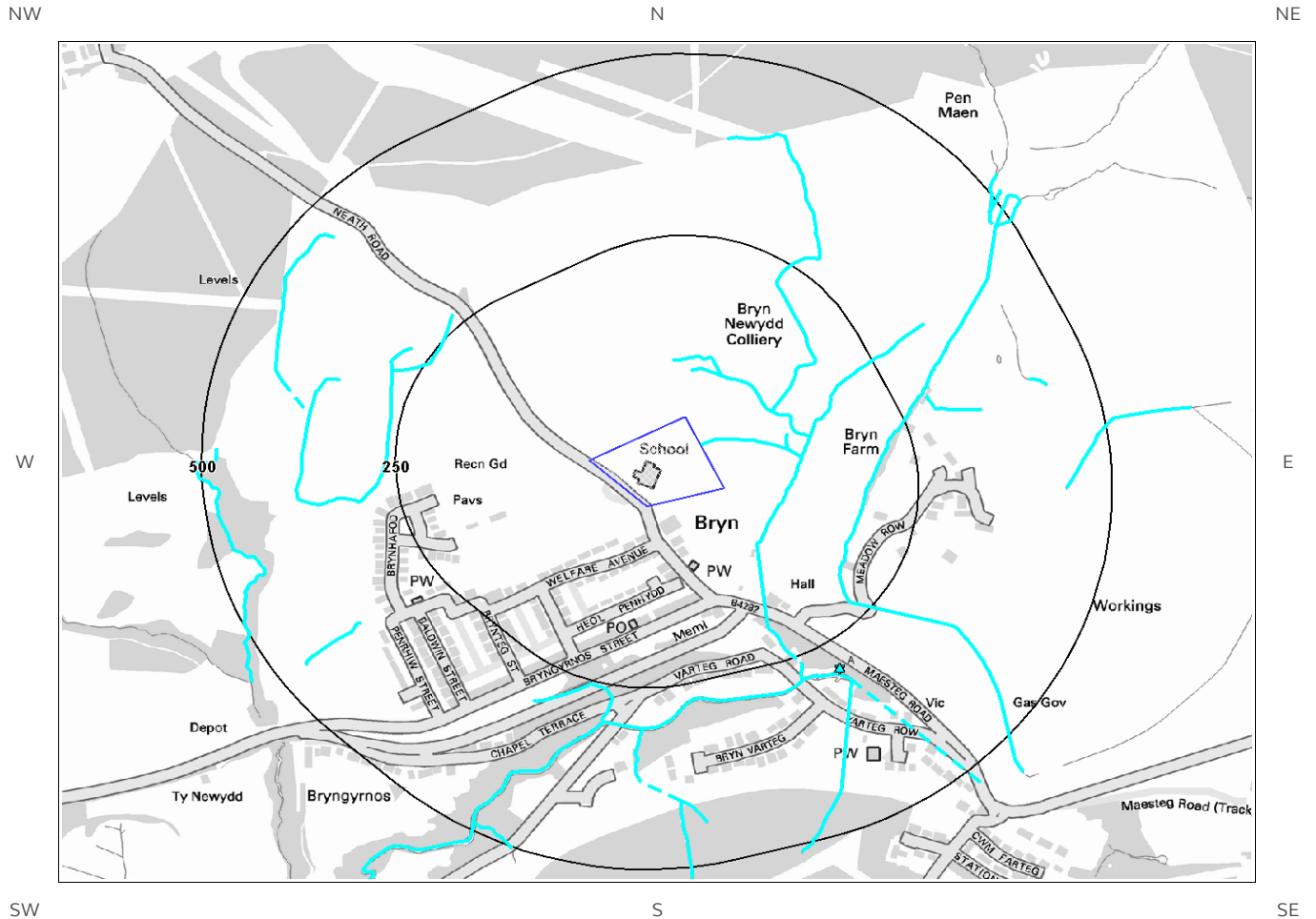
6d. Hydrogeology – Source Protection Zones within confined aquifer



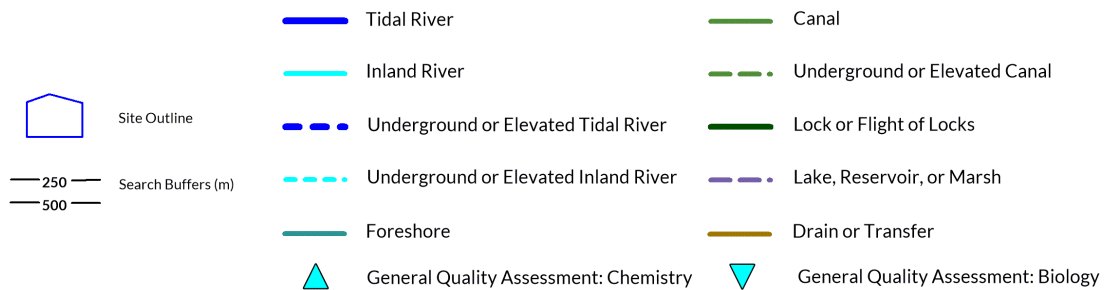
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6e. Hydrology – Watercourse Network and River Quality



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6. Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Records of strata classification within the superficial geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

ID	Distance (m)	Direction	Designation	Description
3	0	On Site	Secondary (undifferentiated)	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
1	217	S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	279	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

6.2 Aquifer within Bedrock Deposits

Records of strata classification within the bedrock geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	Designation	Description
1	0	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

6.3 Groundwater Abstraction Licences

Groundwater Abstraction Licences within 2000m of the study site None identified

Database searched and no data found.

6.4 Surface Water Abstraction Licences

Surface Water Abstraction Licences within 2000m of the study site

None identified

Database searched and no data found.

6.5 Potable Water Abstraction Licences

Potable Water Abstraction Licences within 2000m of the study site

None identified

Database searched and no data found.

6.6 Source Protection Zones

Source Protection Zones within 500m of the study site

None identified

Database searched and no data found.

6.7 Source Protection Zones within Confined Aquifer

Source Protection Zones within the Confined Aquifer within 500m of the study site

None identified

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site Identified

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Minor Aquifer/High Leaching Potential	H3	Coarse textured or moderately shallow soils which readily transmit non-adsorbed pollutants and liquid discharges but have some ability to attenuate adsorbed pollutants because of their clay or organic matter content.
0	On Site	Minor Aquifer/Low Leaching Potential	L	Soils in which pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants.
445	N	Minor Aquifer/Low Leaching Potential	L	Soils in which pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants.

6.9 River Quality

Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site Identified

6.9.1 Biological Quality:

Biological Quality data describes water quality in terms of 83 groups of macroinvertebrates, some of which are pollution sensitive. The results are graded from A ('Very Good') to F ('Bad').

The following Biological Quality records are shown on the Hydrology Map (6e):

ID	Distance (m)	Direction	NGR	River Quality Grade	Biological Quality Grade				
					2005	2006	2007	2008	2009
67A	290	SE	281700 192200	River Name: Ffrwydwyllt Reach: Conf.cwm Wernderi - Varteg Rd.br. End/Start of Stretch: Start of Stretch NGR	A	A	A	A	A

6.9.2 Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAH). In England, each chemical sample is measured for ammonia and dissolved oxygen. In Wales, the samples are measured for biological oxygen demand (BOD), ammonia and dissolved oxygen. The results are graded from A ('Very Good') to F ('Bad').

The following Chemical Quality records are shown on the Hydrology Map (6e):

ID	Distance (m)	Direction	NGR	River Quality Grade	Chemical Quality Grade				
					2005	2006	2007	2008	2009
68A	290	SE	281700 192200	River Name: Ffrwdwyllt Reach: Conf.cwm Wernderi - Varteg Rd.br. End/Start of Stretch: Start of Stretch NGR	A	A	A	A	-

6.10 Ordnance Survey MasterMap Water Network

Ordnance Survey MasterMap Water Network entries within 500m of the study site

This watercourse information is provided by Ordnance Survey MasterMap Water Network. The data provides a detailed centre line following the curve of the waterway precisely, so all distances provided in the report should be understood as measurements to the centreline rather than a measurement to the nearest point of the watercourse. Underground watercourses are inferred from entry and exit points so caution is advised in using these to indicate precise locations of underground watercourses when planning site investigation and development.

The following Ordnance Survey MasterMap Water Network records are represented on the Hydrology Map (6e):

ID	Distance/Direction	Name	Type of Watercourse	Additional Details
1	1 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
5	1 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
2	64 N	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
6	64 N	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
3	73 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
7	73	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	SE			Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
4	74 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
5	74 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
8	74 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
9	74 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
6	87 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
10	87 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
7	97 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
8	97 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
11	97 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
12	97 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
9	103 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
10	103 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
13	103 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
14	103 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
11	109	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	NE			Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
15	109 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
12	133 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
16	133 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
13	175 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
17	175 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
14	201 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
18	201 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
15	225 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
19	225 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
16	237 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
20	237 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
17	244 NW	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
21	244 NW	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
18	255 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
22	255	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	S			Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
19	260 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
20	260 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
23	260 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
24	260 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
21	272 S	Ffrwd Wylt Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 3.4
25	272 S	Ffrwd Wylt Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 3.4
22	273 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
26	273 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
23	274 NW	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
27	274 NW	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
24	276 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
28	276 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
25	280 NW	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
29	280 NW	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
26	282	Ffrwd Wylt Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	S			Permanence: Unclassified. Average Width in Watercourse Section (m): 4.8
27	282 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.9
30	282 S	Ffrwd Wylt Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 4.8
31	282 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.9
28	288 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
29	288 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
32	288 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
33	288 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
30	289 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
34	289 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
31	293 E	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
35	293 E	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
32	295 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
33	295 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
36	295 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
37	295	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	NE			Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
34	300 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.4
Not shown	300 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 1.4
35	302 S	Ffrwd Wylt Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 4.2
Not shown	302 S	Ffrwd Wylt Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 4.2
36	303 S	Ffrwd Wylt Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 4.6
Not shown	303 S	Ffrwd Wylt Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 4.6
37	305 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	305 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
38	310 SE	Nant Cwmfarteg Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
39	310 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
42	310 SE	Nant Cwmfarteg Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
43	310 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
40	340 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
44	340 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
41	347	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	SE			Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
45	347 SE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
42	366 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
43	366 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	366 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	366 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
44	368 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	368 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
45	369 SW	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
49	369 SW	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
46	379 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	379 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
47	408 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
48	408 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	408 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	408	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	S			Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
49	411 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
53	411 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
50	414 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	414 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
51	415 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	415 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
52	420 E	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	420 E	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
53	434 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	434 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Not provided Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
54	441 E	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	441 E	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
55	444 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	444 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
56	445	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	W			Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	445 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
57	477 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	477 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
58	479 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
59	479 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	479 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	479 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
60	480 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	480 W	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
61	483 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
62	483 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	483 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	483 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
63	487 SW	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	487	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface

ID	Distance/ Direction	Name	Type of Watercourse	Additional Details
	SW			Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
64	491 SW	Ffrwd Wylt Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 4.5
Not shown	491 SW	Ffrwd Wylt Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): 4.5
65	497 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	497 NE	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: On ground surface Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
66	498 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided
Not shown	498 S	- Alternative Name: -	Inland river not influenced by normal tidal action.	Catchment Area: Afan Relationship to Ground Level: Underground Permanence: Unclassified. Average Width in Watercourse Section (m): Not Provided

6.11 Surface Water Features

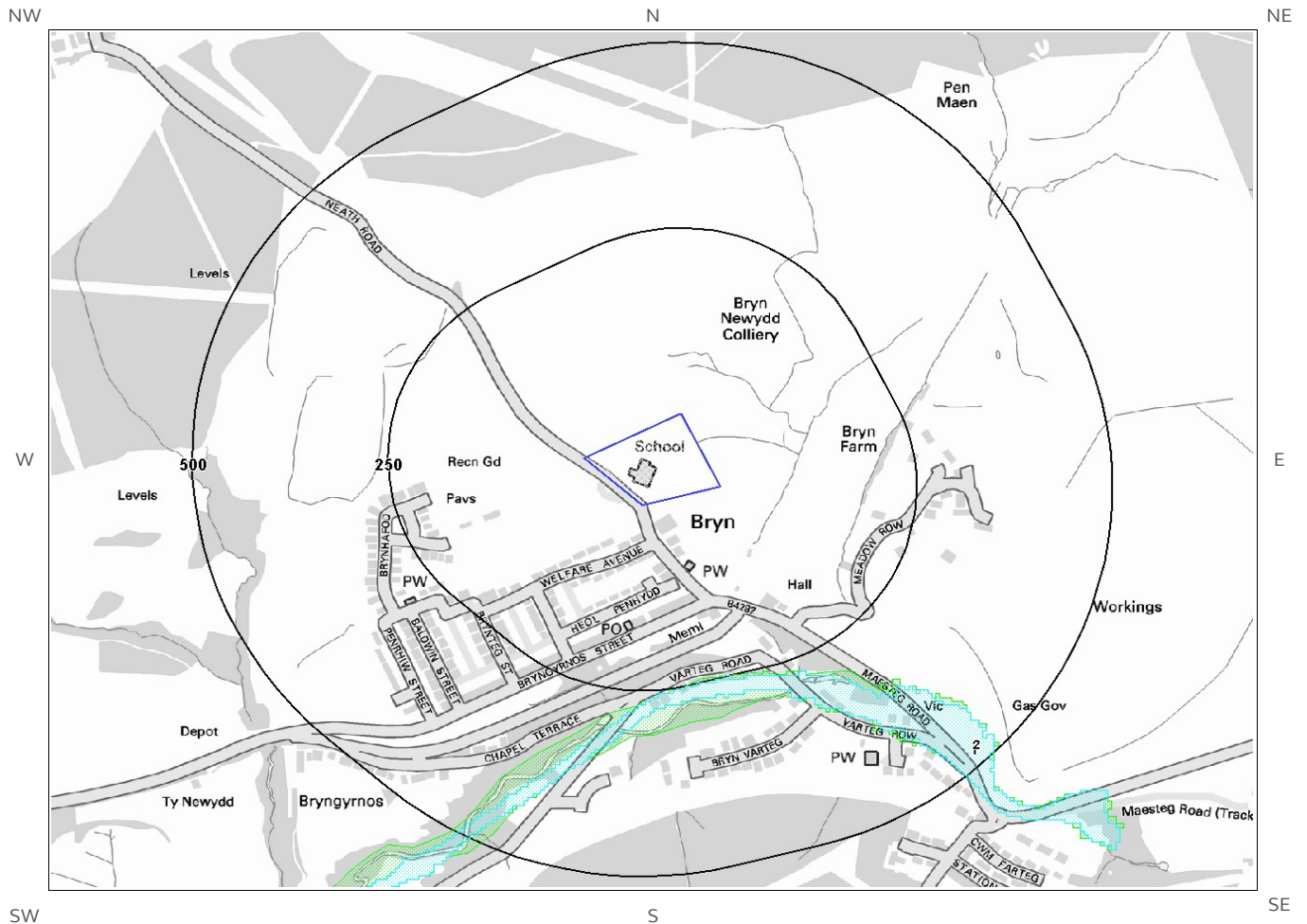
Surface water features within 250m of the study site

Identified

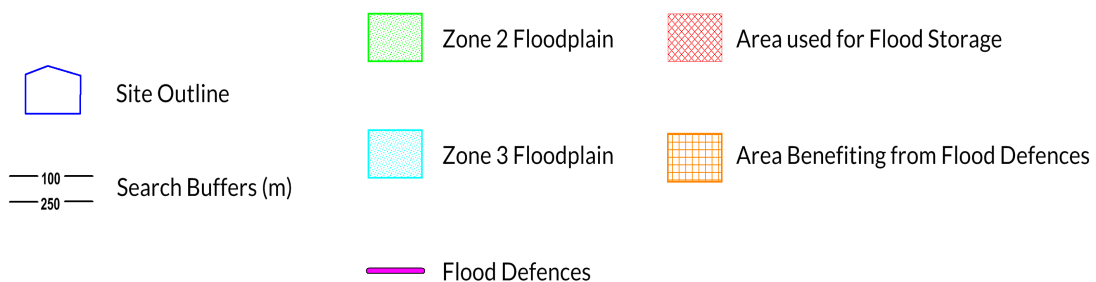
The following surface water records are not represented on mapping:

Distance (m)	Direction
1	NE
64	N
74	NE
74	NE
74	SE
97	NE
97	NE
103	NE
103	NE
109	NE
133	NE
177	E
180	SE
185	SE
201	S
244	NW

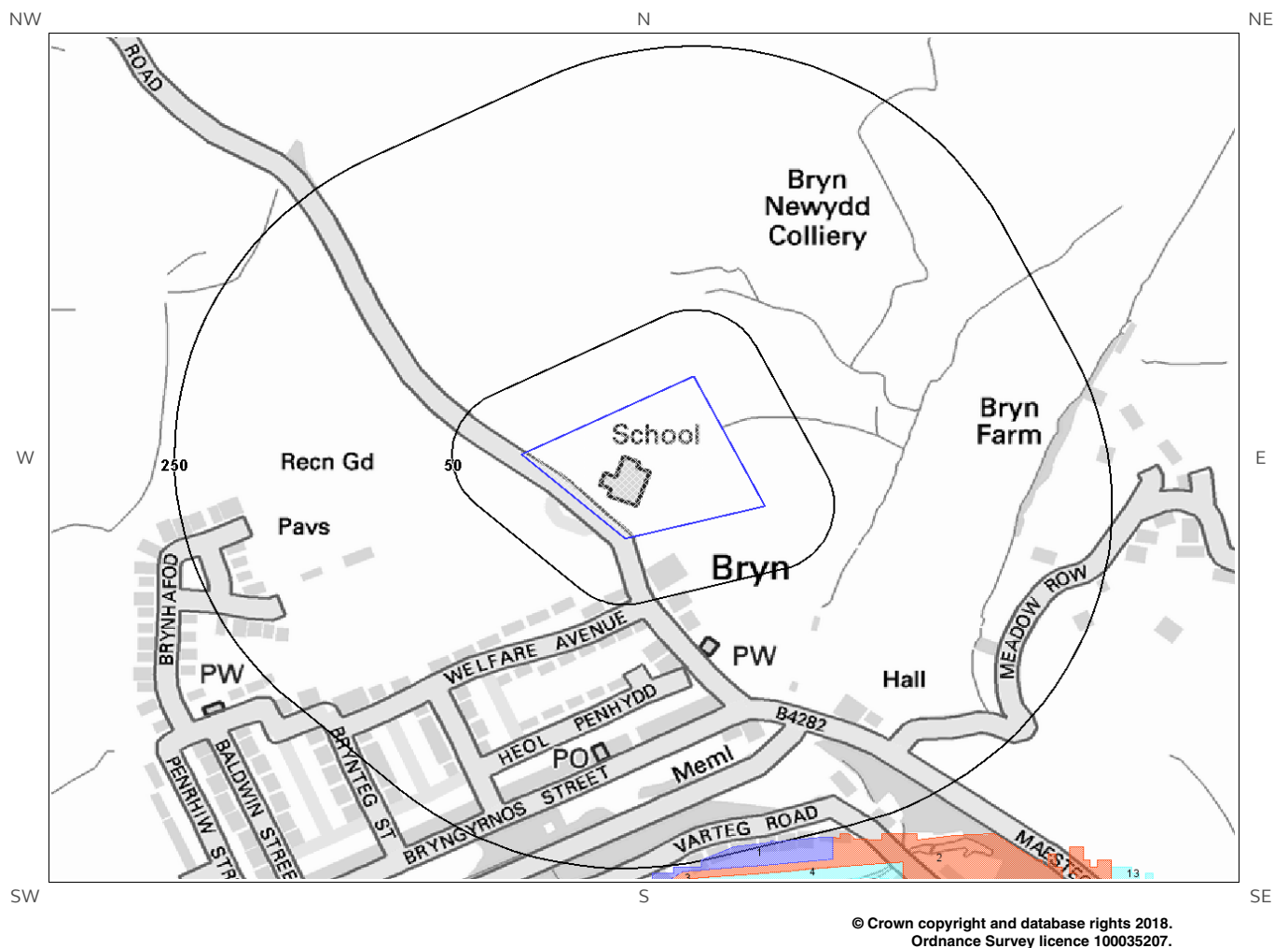
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



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7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



 Site Outline

 100

 250 Search Buffers (m)

RoFRaS Rating

 Very Low

 Low

 Medium

 High

7 Flooding

7.1 River and Coastal Zone 2 Flooding

Environment Agency/Natural Resources Wales Zone 2 floodplain within 250m Identified

Environment Agency/Natural Resources Wales Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

ID	Distance (m)	Direction	Update	Type
1	245	S	29-May-2018	Zone 2 - (Fluvial /Tidal Models)

7.2 River and Coastal Zone 3 Flooding

Environment Agency/Natural Resources Wales Zone 3 floodplain within 250m Identified

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

ID	Distance (m)	Direction	Update	Type
1	247	S	30-May-2018	Zone 3 - (Fluvial Models)

7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

Highest risk of flooding onsite Very Low

The Environment Agency/Natural Resources Wales RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a Very Low (less than 1 in 1000) chance of flooding in any given year.

7.4 Flood Defences

Flood Defences within 250m of the study site None identified
Database searched and no data found.

7.5 Areas benefiting from Flood Defences

Areas benefiting from Flood Defences within 250m of the study site None identified

7.6 Areas benefiting from Flood Storage

Areas used for Flood Storage within 250m of the study site None identified

7.7 Groundwater Flooding Susceptibility Areas

7.7.1 British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site Identified

Clearwater Flooding or Superficial Deposits Flooding Clearwater Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

7.7.2 Highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions

Limited potential

Where limited potential for groundwater flooding to occur is indicated, this means that although given the geological conditions there may be a groundwater flooding hazard, unless other relevant information, e.g. records of previous flooding, suggests groundwater flooding has occurred before in this area, you need take no further action in relation to groundwater flooding hazard.

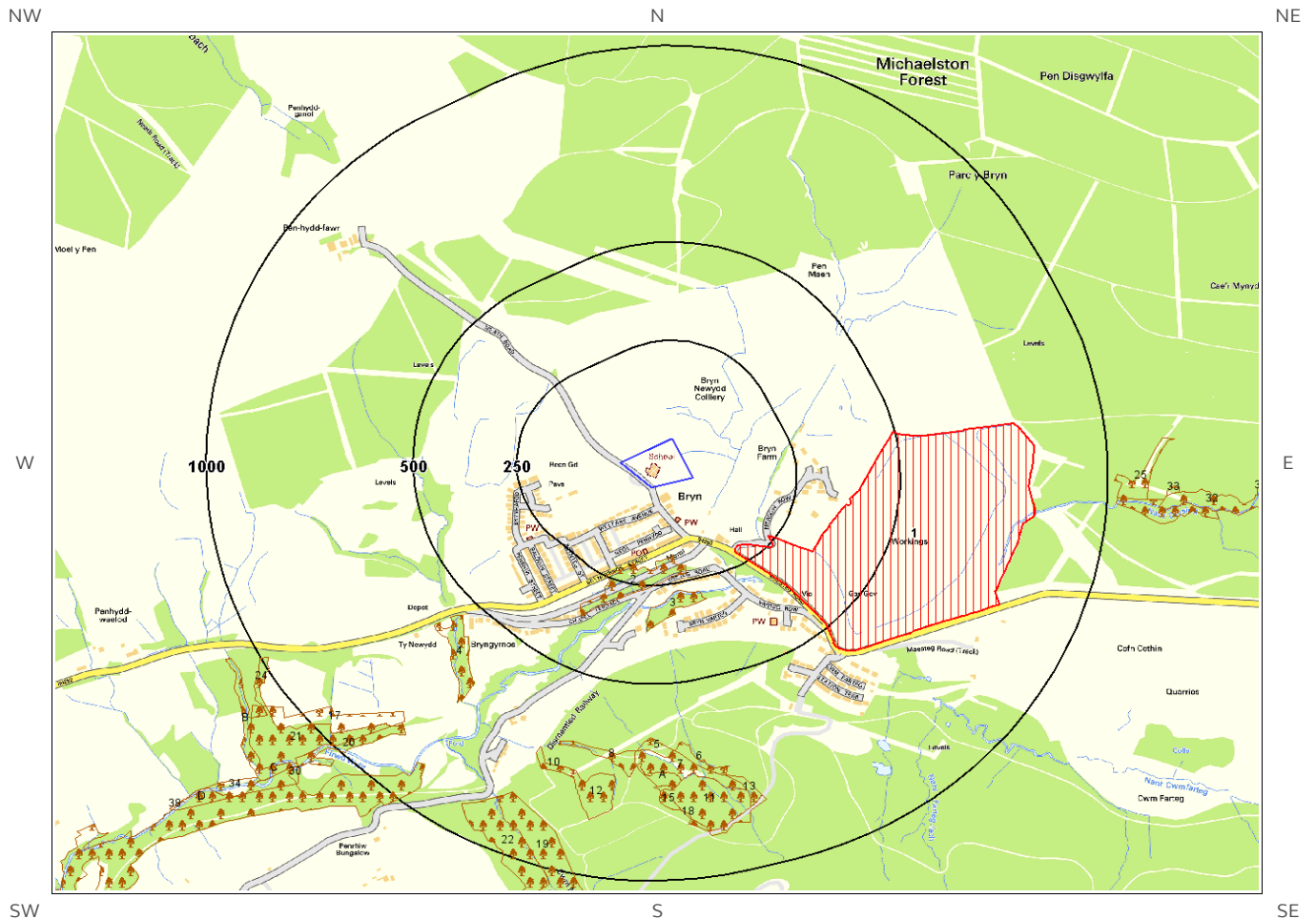
7.8 Groundwater Flooding Confidence Areas

British Geological Survey confidence rating in this result High

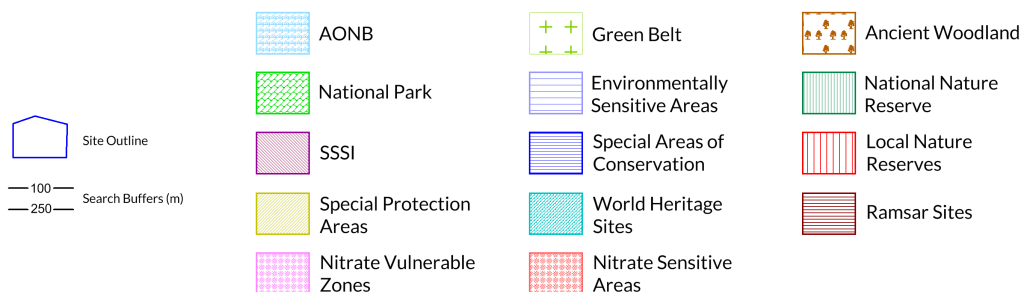
Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

8. Designated Environmentally Sensitive Sites Map



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8. Designated Environmentally Sensitive Sites

Designated Environmentally Sensitive Sites within 2000m of the study site	Identified
---	------------

8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

0

Database searched and no data found.

8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

0

Database searched and no data found.

8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

0

Database searched and no data found.

8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

8.6 Records of Ancient Woodland within 2000m of the study site:

74

The following records of Designated Ancient Woodland provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
2	177	S	Unknown	Ancient and Semi-Natural Woodland
3	269	S	Unknown	Ancient and Semi-Natural Woodland
4	544	SW	Unknown	Ancient and Semi-Natural Woodland
5	636	S	Unknown	Ancient Replanted Woodland
6	651	S	Unknown	Ancient Replanted Woodland
7	667	S	Unknown	Ancient Replanted Woodland
8	670	S	Unknown	Ancient Replanted Woodland
9A	701	S	Unknown	Ancient Replanted Woodland
10	710	S	Unknown	Ancient Replanted Woodland
11	733	S	Unknown	Ancient and Semi-Natural Woodland
12	736	S	Unknown	Other Ancient Woodland
13	753	S	Unknown	Ancient Replanted Woodland
14A	758	S	Unknown	Ancient Replanted Woodland
15	770	S	Unknown	Ancient and Semi-Natural Woodland
16	822	S	Unknown	Ancient Replanted Woodland
17	823	SW	Unknown	Ancient and Semi-Natural Woodland
18	825	S	Unknown	Ancient Replanted Woodland
19	843	SW	Unknown	Ancient Replanted Woodland
20	845	SW	Unknown	Ancient and Semi-Natural Woodland
21	866	SW	Unknown	Ancient and Semi-Natural Woodland
22	870	SW	Unknown	Ancient and Semi-Natural Woodland
23	892	SW	Unknown	Ancient and Semi-Natural Woodland
24	985	SW	Unknown	Ancient and Semi-Natural Woodland
25	1016	E	Unknown	Other Ancient Woodland
26	1022	E	Unknown	Ancient Replanted Woodland
27B	1060	SW	Unknown	Ancient and Semi-Natural Woodland
28B	1063	SW	Unknown	Ancient and Semi-Natural Woodland
29C	1093	SW	Unknown	Ancient and Semi-Natural Woodland
30	1096	SW	Unknown	Ancient and Semi-Natural Woodland
31C	1108	SW	Unknown	Ancient and Semi-Natural Woodland
32	1124	E	Unknown	Ancient and Semi-Natural Woodland
33	1143	E	Unknown	Other Ancient Woodland
34	1185	SW	Unknown	Ancient and Semi-Natural

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
				Woodland
35D	1259	SW	Unknown	Ancient and Semi-Natural Woodland
36D	1309	SW	Unknown	Ancient and Semi-Natural Woodland
37	1360	E	Unknown	Ancient Replanted Woodland
38	1363	SW	Unknown	Ancient and Semi-Natural Woodland
Not shown	1445	E	Unknown	Other Ancient Woodland
Not shown	1608	N	Unknown	Ancient Replanted Woodland
Not shown	1645	E	Unknown	Ancient Replanted Woodland
Not shown	1666	SW	Unknown	Ancient and Semi-Natural Woodland
Not shown	1688	SW	Unknown	Ancient and Semi-Natural Woodland
Not shown	1717	SW	CRAIG EMROCH WOOD	Ancient Replanted Woodland
Not shown	1721	SW	CRAIG EMROCH WOOD	Ancient Replanted Woodland
Not shown	1737	SW	Unknown	Ancient and Semi-Natural Woodland
Not shown	1753	SW	CRAIG EMROCH WOOD	Ancient Replanted Woodland
Not shown	1758	N	Unknown	Ancient Replanted Woodland
Not shown	1782	SW	Unknown	Ancient and Semi-Natural Woodland
Not shown	1810	SW	Unknown	Ancient and Semi-Natural Woodland
Not shown	1816	SW	Unknown	Ancient and Semi-Natural Woodland
Not shown	1819	SW	Unknown	Ancient Replanted Woodland
Not shown	1819	SW	Unknown	Ancient Replanted Woodland
Not shown	1822	N	STANDING STONE WOOD	Ancient Replanted Woodland
Not shown	1824	SW	Unknown	Ancient Replanted Woodland
Not shown	1847	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1872	SW	Unknown	Ancient and Semi-Natural Woodland
Not shown	1884	NE	Unknown	Ancient Replanted Woodland
Not shown	1886	NE	STANDING STONE WOOD	Ancient Replanted Woodland
Not shown	1905	SW	Unknown	Ancient Replanted Woodland
Not	1916	NE	STANDING STONE WOOD	Ancient Replanted Woodland

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
shown				
Not shown	1919	N	Unknown	Ancient and Semi-Natural Woodland
Not shown	1919	N	Unknown	Ancient and Semi-Natural Woodland
Not shown	1923	S	Unknown	Ancient Replanted Woodland
Not shown	1926	SW	Unknown	Ancient and Semi-Natural Woodland
Not shown	1926	SW	Unknown	Ancient Replanted Woodland
Not shown	1927	SW	Unknown	Ancient and Semi-Natural Woodland
Not shown	1941	N	Unknown	Ancient Replanted Woodland
Not shown	1944	SW	CRAIG EMROCH WOOD	Ancient Replanted Woodland
Not shown	1959	N	Unknown	Ancient and Semi-Natural Woodland
Not shown	1961	N	Unknown	Ancient and Semi-Natural Woodland
Not shown	1979	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1980	N	Unknown	Ancient Replanted Woodland
Not shown	1981	S	Unknown	Ancient Replanted Woodland
Not shown	1994	S	Unknown	Ancient Replanted Woodland

8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

1

The following Local Nature Reserve (LNR) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	LNR Name	Data Source
1	204	SE	BRYN TIP	Natural Resources Wales

8.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

0

Database searched and no data found.

8.11 Records of National Parks (NP) within 2000m of the study site:

0

Database searched and no data found.

8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

0

Database searched and no data found.

8.14 Records of Green Belt land within 2000m of the study site:

0

Database searched and no data found.

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a **Groundsure Geo Insight**, available from our **website**. The following information has been found:

9.1.1 Shrink Swell

Maximum Shrink-Swell** hazard rating identified on the study site Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.

9.1.2 Landslides

Maximum Landslide* hazard rating identified on the study site Moderate

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.

9.1.3 Soluble Rocks

Maximum Soluble Rocks* hazard rating identified on the study site Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

* This indicates an automatically generated 50m buffer and site.

9.1.4 Compressible Ground

Maximum Compressible Ground* hazard rating identified on the study site Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

9.1.5 Collapsible Rocks

Maximum Collapsible Rocks* hazard rating identified on the study site Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

9.1.6 Running Sand

Maximum Running Sand** hazard rating identified on the study site Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard
Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

* This indicates an automatically generated 50m buffer and site.

9.2 Radon

9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The site is in a Radon Affected Area, as between 3 and 5% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? Basic radon protective measures are necessary.

10. Mining

10.1 Coal Mining

Coal mining areas within 75m of the study site

Identified

The following coal mining information provided by the Coal Authority is not represented on Mapping:

Distance (m)	Direction	Details
0	On Site	The study site is located within the specified search distance of an identified mining area. Further details concerning this can be obtained from the Coal Authority Helpline on 0845 762 6848.

10.2 Non-Coal Mining

Non-Coal Mining areas within 50m of the study site boundary

None identified

Database searched and no data found.

10.3 Brine Affected Areas

Brine affected areas within 75m of the study site

None identified

Guidance: No Guidance Required.

Contact Details

Groundsure Helpline
Telephone: 08444 159 000
info@groundsure.com

British Geological Survey Enquiries

Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:

Web: www.bgs.ac.uk

BGS Geological Hazards Reports and general geological enquiries:
enquiries@bgs.ac.uk

Natural Resources Wales

Ty Cambria
29 Newport Road
Cardiff
CF24 0TP
Tel: 0300 065 3000
Email: enquiries@naturalresourceswales.gov.uk

Public Health England

Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
www.gov.uk/phe
Email: enquiries@phe.gov.uk
Main switchboard: 020 7654 8000

The Coal Authority

200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
www.coal.gov.uk

Ordnance Survey

Adanac Drive, Southampton
SO16 0AS
Tel: 08456 050505

Local Authority

Authority: Castell-nedd Port Talbot - Neath Port Talbot Co
Phone: 01639 68 68 68
Web: <http://www.neath-porttalbot.gov.uk>
Address: Port Talbot Civic Centre, Port Talbot, SA13 1PJ



Gemapping PLC
Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444



Acknowledgements: Site of Special Scientific Interest, National Nature Reserve, Ramsar Site, Special Protection Area, Special Area of Conservation data is provided by, and used with the permission of, Natural England/Natural Resources Wales who retain the Copyright and Intellectual Property Rights for the data.

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