

APPENDIX D: COMMERCIAL ENVIRONMENTAL DATA

Unit 68 Clywedog Road East, Wrexham Industrial Estate, LL13 9XN

Order Details

Date: 15/07/2022
Your ref: CMAPS-AAG-1050504-4165-150722
Our Ref: CMAPS-AAG-1050504-4165-150722EDRGEO

Site Details

Location: 337257 349631
Area: 2.08 ha
Authority: [Wrexham - Wrexham County Borough Council](#)



Summary of findings

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Aerial image

p. 8

OS MasterMap site plan

p.13

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info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	Historical industrial land uses	3	1	15	16	-
16	1.2	Historical tanks	0	0	0	6	-
16	1.3	Historical energy features	0	0	20	27	-
18	1.4	Historical petrol stations	0	0	0	0	-
19	1.5	Historical garages	0	0	0	0	-
19	1.6	Historical military land	1	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
20	2.1	Historical industrial land uses	3	1	16	19	-
22	2.2	Historical tanks	0	0	0	20	-
23	2.3	Historical energy features	0	0	33	57	-
26	2.4	Historical petrol stations	0	0	0	0	-
27	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
28	3.1	Active or recent landfill	0	0	0	0	-
28	3.2	Historical landfill (BGS records)	0	0	0	0	-
29	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
29	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
29	3.5	Historical waste sites	0	0	0	0	-
29	3.6	Licensed waste sites	0	0	0	0	-
29	3.7	Waste exemptions	0	0	3	3	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
31	4.1	Recent industrial land uses	1	1	21	-	-
33	4.2	Current or recent petrol stations	0	0	0	0	-
33	4.3	Electricity cables	0	0	0	0	-
33	4.4	Gas pipelines	0	0	0	0	-
33	4.5	Sites determined as Contaminated Land	0	0	0	0	-



34	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
34	4.7	Regulated explosive sites	0	0	0	0	-
34	4.8	Hazardous substance storage/usage	0	0	0	0	-
34	4.9	<u>Historical licensed industrial activities (IPC)</u>	0	0	0	4	-
35	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	0	15	-
38	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	1	2	-
39	4.12	Radioactive Substance Authorisations	0	0	0	0	-
39	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	5	0	-
40	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
40	4.15	Pollutant release to public sewer	0	0	0	0	-
40	4.16	List 1 Dangerous Substances	0	0	0	0	-
40	4.17	List 2 Dangerous Substances	0	0	0	0	-
40	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	5	12	-
42	4.19	Pollution inventory substances	0	0	0	0	-
43	4.20	Pollution inventory waste transfers	0	0	0	0	-
43	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
44	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
46	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
48	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
49	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
49	5.5	Groundwater vulnerability- local information	None (within 0m)				
50	5.6	<u>Groundwater abstractions</u>	0	0	0	0	11
53	5.7	<u>Surface water abstractions</u>	0	0	0	0	1
53	5.8	Potable abstractions	0	0	0	0	0
54	5.9	<u>Source Protection Zones</u>	0	0	2	0	-
54	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
55	6.1	<u>Water Network (OS MasterMap)</u>	4	0	19	-	-



57	6.2	<u>Surface water features</u>	1	1	13	-	-
58	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
58	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
58	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
60	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
60	7.2	Historical Flood Events	0	0	0	-	-
60	7.3	Flood Defences	0	0	0	-	-
61	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
61	7.5	Flood Storage Areas	0	0	0	-	-
62	7.6	Flood Zone 2	None (within 50m)				
62	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
63	8.1	<u>Surface water flooding</u>	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
65	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
66	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
67	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
67	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
67	10.4	Special Protection Areas (SPA)	0	0	0	0	0
67	10.5	National Nature Reserves (NNR)	0	0	0	0	0
68	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
68	10.7	<u>Designated Ancient Woodland</u>	0	0	2	2	21
69	10.8	Biosphere Reserves	0	0	0	0	0
69	10.9	Forest Parks	0	0	0	0	0
69	10.10	Marine Conservation Zones	0	0	0	0	0
70	10.11	Green Belt	0	0	0	0	0
70	10.12	Proposed Ramsar sites	0	0	0	0	0



70	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
70	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
70	10.15	Nitrate Sensitive Areas	0	0	0	0	0
71	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
72	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
73	10.18	SSSI Units	0	0	0	0	0

Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
74	11.1	World Heritage Sites	0	0	0	-	-
74	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
74	11.3	National Parks	0	0	0	-	-
74	11.4	Listed Buildings	0	0	0	-	-
75	11.5	Conservation Areas	0	0	0	-	-
75	11.6	Scheduled Ancient Monuments	0	0	0	-	-
75	11.7	Registered Parks and Gardens	0	0	0	-	-

Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
76	12.1	<u>Agricultural Land Classification</u>	Grade 3a (within 250m)				
77	12.2	Open Access Land	0	0	0	-	-
77	12.3	Tree Felling Licences	0	0	0	-	-
77	12.4	Environmental Stewardship Schemes	0	0	0	-	-
77	12.5	Countryside Stewardship Schemes	0	0	0	-	-

Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
78	13.1	Priority Habitat Inventory	0	0	0	-	-
78	13.2	Habitat Networks	0	0	0	-	-
78	13.3	Open Mosaic Habitat	0	0	0	-	-
78	13.4	Limestone Pavement Orders	0	0	0	-	-

Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
79	14.1	<u>10k Availability</u>	Identified (within 500m)				
80	14.2	<u>Artificial and made ground (10k)</u>	1	0	3	2	-
82	14.3	<u>Superficial geology (10k)</u>	1	0	2	2	-



83	14.4	Landslip (10k)	0	0	0	0	-
84	14.5	<u>Bedrock geology (10k)</u>	1	0	3	0	-
85	14.6	<u>Bedrock faults and other linear features (10k)</u>	0	0	2	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
86	15.1	<u>50k Availability</u>	Identified (within 500m)				
87	15.2	<u>Artificial and made ground (50k)</u>	1	0	1	1	-
88	15.3	<u>Artificial ground permeability (50k)</u>	1	0	-	-	-
89	15.4	<u>Superficial geology (50k)</u>	1	0	1	1	-
90	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
90	15.6	Landslip (50k)	0	0	0	0	-
90	15.7	Landslip permeability (50k)	None (within 50m)				
91	15.8	<u>Bedrock geology (50k)</u>	1	0	1	0	-
92	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
92	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	0	1	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
93	16.1	<u>BGS Boreholes</u>	0	0	14	-	-
Page	Section	Natural ground subsidence					
95	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
96	17.2	<u>Running sands</u>	Very low (within 50m)				
98	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
99	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
100	17.5	<u>Landslides</u>	Very low (within 50m)				
101	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
103	18.1	Natural cavities	0	0	0	0	-
104	18.2	BritPits	0	0	0	0	-
104	18.3	<u>Surface ground workings</u>	2	1	19	-	-
105	18.4	Underground workings	0	0	0	0	0
105	18.5	Historical Mineral Planning Areas	0	0	0	0	-



105	18.6	Non-coal mining	0	0	0	0	0
106	18.7	Mining cavities	0	0	0	0	0
106	18.8	JPB mining areas	None (within 0m)				
<u>106</u>	<u>18.9</u>	<u>Coal mining</u>	Identified (within 0m)				
106	18.10	Brine areas	None (within 0m)				
107	18.11	Gypsum areas	None (within 0m)				
107	18.12	Tin mining	None (within 0m)				
107	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<u>108</u>	<u>19.1</u>	<u>Radon</u>	Between 1% and 3% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>109</u>	<u>20.1</u>	<u>BGS Estimated Background Soil Chemistry</u>	2	0	-	-	-
109	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
109	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
110	21.1	Underground railways (London)	0	0	0	-	-
110	21.2	Underground railways (Non-London)	0	0	0	-	-
110	21.3	Railway tunnels	0	0	0	-	-
110	21.4	Historical railway and tunnel features	0	0	0	-	-
110	21.5	Royal Mail tunnels	0	0	0	-	-
111	21.6	Historical railways	0	0	0	-	-
111	21.7	Railways	0	0	0	-	-
111	21.8	Crossrail 1	0	0	0	0	-
111	21.9	Crossrail 2	0	0	0	0	-
111	21.10	HS2	0	0	0	0	-



Recent aerial photograph



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Capture Date: 10/04/2020

Site Area: 2.08ha



Recent site history - 2017 aerial photograph



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Capture Date: 07/05/2017

Site Area: 2.08ha



Recent site history - 2009 aerial photograph



Capture Date: 01/06/2009

Site Area: 2.08ha



Recent site history - 2003 aerial photograph



Capture Date: 04/08/2003

Site Area: 2.08ha



Recent site history - 2000 aerial photograph



Capture Date: 04/09/2000

Site Area: 2.08ha



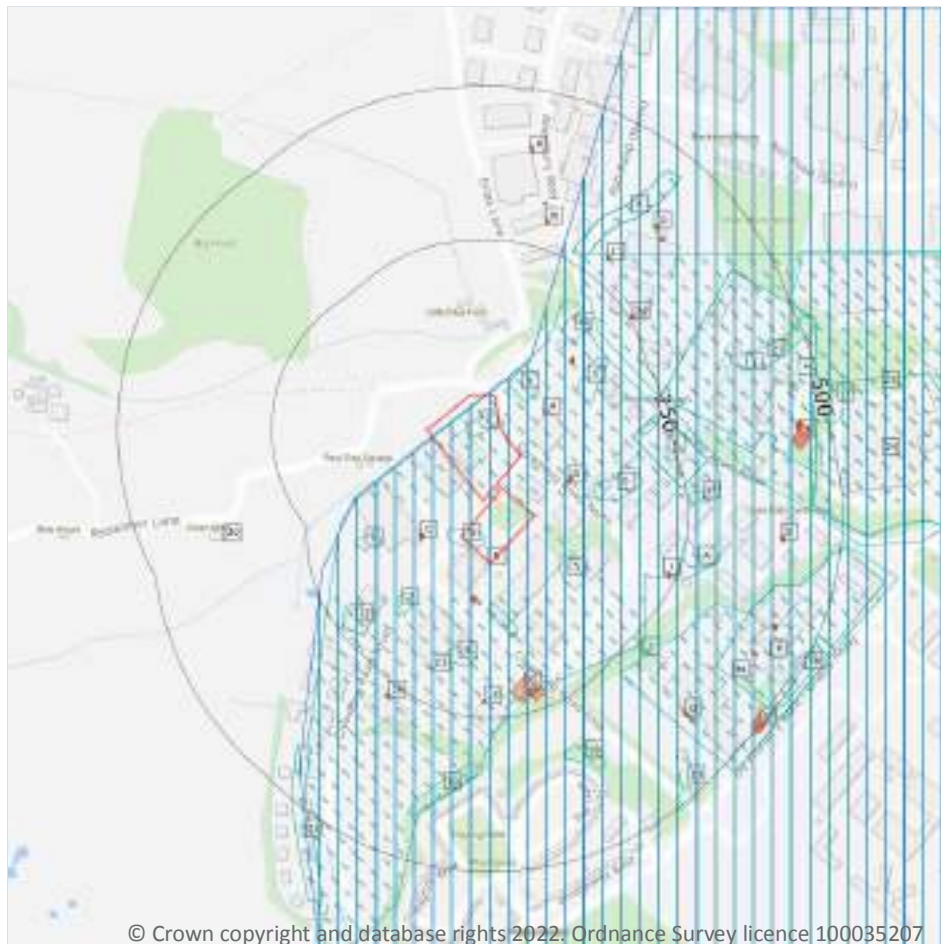
OS MasterMap site plan



Site Area: 2.08ha



1 Past land use



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

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1.1 Historical industrial land uses

Records within 500m

35

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

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

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Heap	1964	802670



ID	Location	Land use	Dates present	Group ID
2	On site	Unspecified Pit	1977	838781
B	On site	Unspecified Commercial/Industrial	1964	796409
3	28m NE	Unspecified Pit	1977	838782
B	64m S	Unspecified Heap	1964	802667
5	76m SE	Unspecified Heap	1964	802668
6	104m E	Unspecified Heap	1964	802664
7	125m SW	Unspecified Heap	1964	802671
8	132m W	Unspecified Heap	1964	802672
E	132m E	Unspecified Heap	1977	802669
9	143m S	Unspecified Heap	1964	802655
10	150m NE	Unspecified Pit	1964 - 1977	958785
F	184m E	Unspecified Works	1977	920631
F	184m E	Unspecified Works	1992	981460
H	196m NE	Unspecified Commercial/Industrial	1964	883869
12	197m SW	Unspecified Heap	1964	802673
A	246m E	Unspecified Heap	1977	802666
J	248m E	Unspecified Workshop	1977	880838
J	248m E	Unspecified Workshop	1992	910726
15	253m E	Unspecified Heap	1977	802665
K	265m NE	Railway Sidings	1960	846514
K	265m NE	Railway Sidings	1968	904588
M	275m SE	Unspecified Works	1992	963484
L	280m SE	Unspecified Tank	1909 - 1938	959968
18	325m SE	Unspecified Heap	1992	802654
19	326m S	Unspecified Heap	1992	802644
21	373m NE	Unspecified Heap	1964	802661
P	379m SE	Unspecified Works	1964 - 1977	846472
22	418m SW	Cuttings	1964 - 1977	845808



ID	Location	Land use	Dates present	Group ID
23	431m SE	Unspecified Heap	1964	802653
24	451m E	Unspecified Commercial/Industrial	1992	872439
H	452m E	Unspecified Tank	1977	823835
25	454m E	Unspecified Commercial/Industrial	1977	938680
26	485m SE	Unspecified Works	1977	867757
27	496m E	Unspecified Ground Workings	1977	799057

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

6

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

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

ID	Location	Land use	Dates present	Group ID
L	274m SE	Unspecified Tank	1912	109626
17	285m NE	Unspecified Tank	1983 - 1994	139106
20	371m SW	Unspecified Tank	1912	109625
O	375m NE	Unspecified Tank	1990 - 1999	127088
H	452m E	Unspecified Tank	1976 - 1991	136008
H	452m E	Unspecified Tank	1993 - 1994	122268

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

47

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



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

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

ID	Location	Land use	Dates present	Group ID
B	59m SW	Electricity Substation	1994	60153
B	60m SW	Electricity Substations	1991	59838
C	61m W	Electricity Substation	1991	64454
C	62m W	Electricity Substation	1993	60155
C	64m W	Electricity Substation	1994	65477
B	65m SW	Electricity Substation	1993	60154
4	72m NE	Electricity Substation	1986 - 1994	71605
D	77m NE	Electricity Substation	1993 - 1994	64380
D	85m NE	Electricity Substation	1986 - 1991	82090
B	117m S	Electricity Substation	1991 - 1994	68487
E	132m NE	Electricity Substation	1986 - 1991	66636
E	132m NE	Electricity Substation	1993	74816
E	135m NE	Electricity Substation	1994	70920
G	189m S	Electricity Substation	1993 - 1994	76224
11	193m SW	Electricity Substation	1993 - 1994	81637
G	213m S	Electricity Substation	1983 - 1991	72990
13	221m S	Electricity Substation	1993 - 1994	63902
I	233m SE	Electricity Substation	1994	60159
I	237m SE	Electricity Substation	1993	60162
I	237m SE	Electricity Substation	1991	60160
14	252m NE	Electricity Substation	1983 - 1993	65266
16	269m SW	Electricity Substation	1993 - 1994	80594
N	291m N	Electricity Substation	1982 - 1999	70616
N	319m N	Electricity Substation	1994 - 1999	71781
O	366m NE	Electricity Substation	1994 - 1999	75792
O	367m NE	Electricity Substation	1990	77142



ID	Location	Land use	Dates present	Group ID
Q	391m SE	Electricity Substation	1986 - 1991	78167
R	400m N	Electricity Substation	1994 - 1999	78390
S	403m E	Electricity Substation	1991	83005
S	403m E	Electricity Substation	1994	65274
S	404m E	Electricity Substation	1993	60161
R	405m N	Electricity Substation	1982 - 1990	69300
Q	410m SE	Electricity Substation	1993 - 1994	76517
M	414m SE	Electricity Substation	1976 - 1982	71251
P	425m SE	Electricity Substation	1991	75544
P	425m SE	Electricity Substation	1986	84796
P	428m SE	Electricity Substation	1983	71373
P	429m SE	Electricity Substation	1993	72316
P	429m SE	Electricity Substation	1994	76187
T	437m E	Electricity Substation	1994	79821
T	437m E	Electricity Substation	1993	83489
T	449m E	Electricity Substation	1991	67417
T	449m E	Electricity Substation	1982	71539
T	449m E	Electricity Substation	1986	73651
T	450m E	Electricity Substation	1976 - 1983	82436
U	486m SE	Electricity Substation	1983	81565
U	490m SE	Electricity Substation	1976 - 1986	77249

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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



This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

1

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

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

ID	Location	Site Name	Date of Operation	Activities
A	On site	ROF Wrexham	c.1938 - 1988	c. WW2: Produced cordite,; post WW2: Cordite production ceased in 1945 and the area was used as an industrial estate by the Welsh Development Agency to boost the local economy; Explosives Factory

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



2 Past land use - un-grouped



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

2.1 Historical industrial land uses

Records within 500m

39

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

Features are displayed on the Past land use - un-grouped map on **page 20**

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Pit	1977	838781
2	On site	Unspecified Heap	1964	802670
A	On site	Unspecified Commercial/Industrial	1964	796409



ID	Location	Land Use	Date	Group ID
3	28m NE	Unspecified Pit	1977	838782
A	64m S	Unspecified Heap	1964	802667
4	76m SE	Unspecified Heap	1964	802668
5	104m E	Unspecified Heap	1964	802664
6	125m SW	Unspecified Heap	1964	802671
7	132m W	Unspecified Heap	1964	802672
E	132m E	Unspecified Heap	1977	802669
8	143m S	Unspecified Heap	1964	802655
F	150m NE	Unspecified Pit	1977	958785
F	150m NE	Unspecified Pit	1964	958785
G	184m E	Unspecified Works	1977	920631
G	184m E	Unspecified Works	1992	981460
J	196m NE	Unspecified Commercial/Industrial	1964	883869
9	197m SW	Unspecified Heap	1964	802673
10	246m E	Unspecified Heap	1977	802666
M	248m E	Unspecified Workshop	1977	880838
M	248m E	Unspecified Workshop	1992	910726
11	253m E	Unspecified Heap	1977	802665
O	265m NE	Railway Sidings	1960	846514
O	265m NE	Railway Sidings	1968	904588
R	275m SE	Unspecified Works	1992	963484
Q	280m SE	Unspecified Tank	1909	959968
Q	280m SE	Unspecified Tank	1938	959968
12	325m SE	Unspecified Heap	1992	802654
13	326m S	Unspecified Heap	1992	802644
15	373m NE	Unspecified Heap	1964	802661
R	379m SE	Unspecified Works	1964	846472
R	382m SE	Unspecified Works	1977	846472



ID	Location	Land Use	Date	Group ID
Y	418m SW	Cuttings	1977	845808
Y	418m SW	Cuttings	1964	845808
16	431m SE	Unspecified Heap	1964	802653
17	451m E	Unspecified Commercial/Industrial	1992	872439
J	452m E	Unspecified Tank	1977	823835
18	454m E	Unspecified Commercial/Industrial	1977	938680
19	485m SE	Unspecified Works	1977	867757
20	496m E	Unspecified Ground Workings	1977	799057

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

20

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

Features are displayed on the Past land use - un-grouped map on **page 20**

ID	Location	Land Use	Date	Group ID
Q	274m SE	Unspecified Tank	1912	109626
S	285m NE	Unspecified Tank	1986	139106
S	285m NE	Unspecified Tank	1991	139106
S	286m NE	Unspecified Tank	1993	139106
S	286m NE	Unspecified Tank	1994	139106
S	286m NE	Unspecified Tank	1983	139106
14	371m SW	Unspecified Tank	1912	109625
U	375m NE	Unspecified Tank	1994	127088
U	375m NE	Unspecified Tank	1999	127088
U	375m NE	Unspecified Tank	1995	127088
U	375m NE	Unspecified Tank	1995	127088
U	375m NE	Unspecified Tank	1990	127088



ID	Location	Land Use	Date	Group ID
U	375m NE	Unspecified Tank	1990	127088
J	452m E	Unspecified Tank	1982	136008
J	452m E	Unspecified Tank	1986	136008
J	452m E	Unspecified Tank	1991	136008
J	452m E	Unspecified Tank	1993	122268
J	452m E	Unspecified Tank	1994	122268
J	453m E	Unspecified Tank	1976	136008
J	453m E	Unspecified Tank	1983	136008

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

90

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

Features are displayed on the Past land use - un-grouped map on **page 20**

ID	Location	Land Use	Date	Group ID
A	59m SW	Electricity Substation	1994	60153
A	60m SW	Electricity Substations	1991	59838
B	61m W	Electricity Substation	1991	64454
B	62m W	Electricity Substation	1993	60155
B	64m W	Electricity Substation	1994	65477
A	65m SW	Electricity Substation	1993	60154
C	72m NE	Electricity Substation	1993	71605
C	72m NE	Electricity Substation	1994	71605
C	74m NE	Electricity Substation	1986	71605
C	74m NE	Electricity Substation	1991	71605
D	77m NE	Electricity Substation	1993	64380
D	77m NE	Electricity Substation	1994	64380



ID	Location	Land Use	Date	Group ID
D	85m NE	Electricity Substation	1986	82090
D	85m NE	Electricity Substation	1991	82090
A	117m S	Electricity Substation	1991	68487
A	119m S	Electricity Substation	1993	68487
A	119m S	Electricity Substation	1994	68487
E	132m NE	Electricity Substation	1986	66636
E	132m NE	Electricity Substation	1991	66636
E	132m NE	Electricity Substation	1993	74816
E	135m NE	Electricity Substation	1994	70920
H	189m S	Electricity Substation	1993	76224
H	189m S	Electricity Substation	1994	76224
I	193m SW	Electricity Substation	1993	81637
I	193m SW	Electricity Substation	1994	81637
H	213m S	Electricity Substation	1986	72990
H	213m S	Electricity Substation	1991	72990
H	214m S	Electricity Substation	1983	72990
K	221m S	Electricity Substation	1993	63902
K	221m S	Electricity Substation	1994	63902
L	233m SE	Electricity Substation	1994	60159
L	237m SE	Electricity Substation	1993	60162
L	237m SE	Electricity Substation	1991	60160
N	252m NE	Electricity Substation	1986	65266
N	252m NE	Electricity Substation	1991	65266
N	253m NE	Electricity Substation	1993	65266
N	254m NE	Electricity Substation	1983	65266
P	269m SW	Electricity Substation	1993	80594
P	269m SW	Electricity Substation	1994	80594
T	291m N	Electricity Substation	1994	70616



ID	Location	Land Use	Date	Group ID
T	291m N	Electricity Substation	1999	70616
T	291m N	Electricity Substation	1995	70616
T	291m N	Electricity Substation	1995	70616
T	293m N	Electricity Substation	1982	70616
T	293m N	Electricity Substation	1988	70616
T	293m N	Electricity Substation	1990	70616
T	293m N	Electricity Substation	1990	70616
T	319m N	Electricity Substation	1994	71781
T	319m N	Electricity Substation	1999	71781
T	319m N	Electricity Substation	1995	71781
T	319m N	Electricity Substation	1995	71781
U	366m NE	Electricity Substation	1994	75792
U	366m NE	Electricity Substation	1999	75792
U	366m NE	Electricity Substation	1995	75792
U	366m NE	Electricity Substation	1995	75792
U	367m NE	Electricity Substation	1990	77142
U	367m NE	Electricity Substation	1990	77142
V	391m SE	Electricity Substation	1986	78167
V	391m SE	Electricity Substation	1991	78167
W	400m N	Electricity Substation	1994	78390
W	400m N	Electricity Substation	1999	78390
W	400m N	Electricity Substation	1995	78390
W	400m N	Electricity Substation	1995	78390
X	403m E	Electricity Substation	1991	83005
X	403m E	Electricity Substation	1994	65274
X	404m E	Electricity Substation	1993	60161
W	405m N	Electricity Substation	1982	69300
W	405m N	Electricity Substation	1988	69300



ID	Location	Land Use	Date	Group ID
W	405m N	Electricity Substation	1990	69300
W	405m N	Electricity Substation	1990	69300
V	410m SE	Electricity Substation	1993	76517
V	410m SE	Electricity Substation	1994	76517
R	414m SE	Electricity Substation	1982	71251
R	416m SE	Electricity Substation	1976	71251
R	425m SE	Electricity Substation	1986	84796
R	425m SE	Electricity Substation	1991	75544
R	428m SE	Electricity Substation	1983	71373
R	429m SE	Electricity Substation	1993	72316
R	429m SE	Electricity Substation	1994	76187
Z	437m E	Electricity Substation	1993	83489
Z	437m E	Electricity Substation	1994	79821
Z	449m E	Electricity Substation	1982	71539
Z	449m E	Electricity Substation	1986	73651
Z	449m E	Electricity Substation	1991	67417
Z	450m E	Electricity Substation	1976	82436
Z	450m E	Electricity Substation	1983	82436
AA	486m SE	Electricity Substation	1983	81565
AA	490m SE	Electricity Substation	1982	77249
AA	490m SE	Electricity Substation	1986	77249
AA	491m SE	Electricity Substation	1976	77249

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

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



This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m**0**

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m**0**

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

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

3.5 Historical waste sites

Records within 500m**0**

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

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

3.6 Licensed waste sites

Records within 500m**0**

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

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

3.7 Waste exemptions

Records within 500m**6**

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

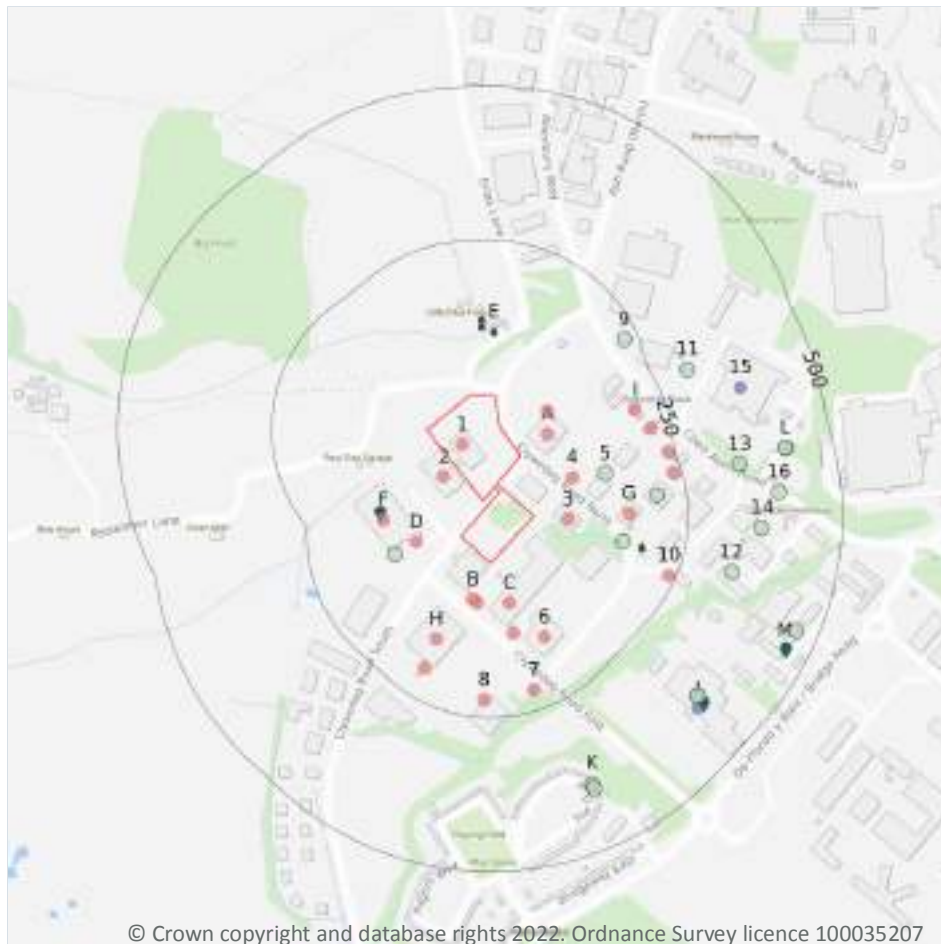
Features are displayed on the Waste and landfill map on **page 28**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	56m S	AST Plastic Containers UK LLP, A S T Plastic Containers UK, Unit 70, Clywedog Road East, Wrexham Industrial Estate, Wrexham, Wreccsam, LL13 9XE	NRW-WME053945	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Cleaning, washing, spraying or coating relevant waste
A	56m S	AST Plastic Containers UK LLP, A S T Plastic Containers UK, Unit 70, Clywedog Road East, Wrexham Industrial Estate, Wrexham, Wreccsam, LL13 9XE	NRW-WME053945	Storing waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Storage of waste in a secure place
A	56m S	AST Plastic Containers UK LLP, A S T Plastic Containers UK, Unit 70, Clywedog Road East, Wrexham Industrial Estate, Wrexham, Wreccsam, LL13 9XE	NRW-WME053945	Treating waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Preparatory treatments (baling, sorting, shredding etc)
1	251m NE	Specialist Building Products T/A Ecodek, Ecodek, Unit 13, Abenbury Way, Wrexham Industrial Estate, Wrexham, Wreccsam, LL13 9UZ	NRW-WME068549	Using waste exemption	Waste Exemption - Agricultural and Non-Agricultural	Use of waste to manufacture finished goods
2	338m E	LOCKWELL ELECTRICAL, Lockwell Lectrics Ltd, Unit 100, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Wreccsam, LL13 9UH	NRW-WME049814	Storing waste exemption	Not on a farm	Storage of waste in a secure place
3	367m SW	Malpas Tractors (Wrexham) Ltd, Malpas Tractors (Wrexham) Ltd, Clywedog Road South, Wrexham, Wrexham, Wreccsam, LL13 9XS	NRW-WME072727	Storing waste exemption	Not on a farm	Storage of waste in secure containers

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Historical licensed industrial activities
- Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

23

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Company	Address	Activity	Category
1	On site	Dragon Packaging Ltd	Unit 47 and 48, Clywedog Road North, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XN	Packaging	Industrial Products
2	26m SW	Silvergate	Unit 53, Clywedog Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XS	Rubber, Silicones and Plastics	Industrial Products



ID	Location	Company	Address	Activity	Category
3	55m E	Skanda	Unit 67, Clywedog Road North, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XN	General Construction Supplies	Industrial Products
A	56m NE	Riello U P S Ltd	Unit 50, Clywedog Road North, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XN	Electrical Equipment Repair and Servicing	Repair and Servicing
B	65m SW	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities
B	68m S	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities
C	71m SE	A S T Plastic Containers UK	Unit 70, Clywedog Road East, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XE	Packaging	Industrial Products
D	74m W	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities
A	77m NE	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities
4	89m NE	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities
C	119m S	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities
F	129m W	Applied Components Technology Ltd	Unit 54, Clywedog Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XS	Rubber, Silicones and Plastics	Industrial Products
6	148m SE	Decor-lam Ltd	Unit 71, Clywedog Road East, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XE	Industrial Coatings and Finishings	Industrial Products
H	151m SW	Porviar Sciences	Unit 73, Clywedog Road South, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XS	Rubber, Silicones and Plastics	Industrial Products
G	154m E	Etiquette Labels Ltd	Unit 51, Clywedog Road North, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9XN	Stationery, Stamps, Tags and Labels	Industrial Products
H	200m SW	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities
I	201m E	Fleet Sauce	Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH	Vehicle Hire and Rental	Hire Services
7	217m S	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities
I	217m E	Broadway Leisure	Unit 2a, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH	Sports and Leisure Equipment Repair	Repair and Servicing



ID	Location	Company	Address	Activity	Category
8	221m S	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities
I	236m E	Zaviz International Ltd	Empire Scaffolding, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH	Vehicle Repair, Testing and Servicing	Repair and Servicing
10	239m SE	Electricity Sub Station	Clwyd, LL13	Electrical Features	Infrastructure and Facilities
I	241m E	Business Print & Design	Millwood House, Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UH	Published Goods	Industrial Products

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

0

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

This data is sourced from Local Authority records.



4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

4

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

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Details	
15	374m E	Operator: Stadex Industries Ltd Address: Coed Aben Road, Wrexham Industrial Estate, Wrexham, Clwyd, LL13 9UL Process: Di-isocyanate Processes Permit Number: BF1220	Original Permit Number: IPCAPP Date Approved: 8-6-1999 Effective Date: 9-6-1999 Status: Revoked
J	405m SE	Operator: Hydro Aluminium Deeside Ltd Address: Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9SQ Process: Non-ferrous Metals Permit Number: AS4117	Original Permit Number: IPCAIRAPP Date Approved: 4-12-1995 Effective Date: 8-12-1995 Status: Superseded By Variation



ID	Location	Details	
J	405m SE	Operator: Hydro Aluminium Deeside Ltd Address: Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9SQ Process: Non-ferrous Metals Permit Number: AX6443	Original Permit Number: IPCMAJVAR Date Approved: 1-5-1997 Effective Date: 1-5-1997 Status: Superseded By Variation
J	405m SE	Operator: Hydro Aluminium Deeside Ltd Address: Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9SQ Process: Non-ferrous Metals Permit Number: BD8312	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked - Now Ippc

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

15

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

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Details	
J	405m SE	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM PROCESSING EA/EPR/BK3638IF/V002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: BK3638IF Original Permit Number: BK3638IF	EPR Reference: - Issue Date: 15/03/2002 Effective Date: 15/03/2002 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
J	405m SE	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM PROCESSING EA/EPR/BK3638IF/V002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BK3638IF Original Permit Number: BK3638IF	EPR Reference: - Issue Date: 15/03/2002 Effective Date: 15/03/2002 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
J	405m SE	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM PROCESSING EA/EPR/BK3638IF/V002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: BP3934LJ Original Permit Number: BK3638IF	EPR Reference: - Issue Date: 14/07/2009 Effective Date: 14/07/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
J	405m SE	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM PROCESSING EA/EPR/BK3638IF/V002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BP3934LJ Original Permit Number: BK3638IF	EPR Reference: - Issue Date: 14/07/2009 Effective Date: 14/07/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
J	405m SE	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM PROCESSING EA/EPR/BK3638IF/V002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: FP3836WE Original Permit Number: BK3638IF	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 17/11/2015 Status: DETERMINATION
J	405m SE	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM PROCESSING EA/EPR/BK3638IF/V002 Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: FP3836WE Original Permit Number: BK3638IF	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 17/11/2015 Status: DETERMINATION
J	405m SE	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM WORKS EPR/BK3638IF Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: HP3338VH Original Permit Number: BK3638IF	EPR Reference: - Issue Date: 20/06/2014 Effective Date: 20/06/2014 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
J	405m SE	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM WORKS EPR/BK3638IF Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: HP3338VH Original Permit Number: BK3638IF	EPR Reference: - Issue Date: 20/06/2014 Effective Date: 20/06/2014 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
J	405m SE	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: - Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BK3638 Original Permit Number: BK3638	EPR Reference: - Issue Date: 15/03/2002 Effective Date: 15/03/2002 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS



ID	Location	Details	
J	405m SE	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM WORKS EPR/BK3638IF Process: - Permit Number: BK3638IF Original Permit Number: HP3338VH	EPR Reference: - Issue Date: 20/06/2014 Effective Date: 20/06/2014 Last date noted as effective: 01/12/2016 Status: EFFECTIVE
J	405m SE	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: - Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: BK3638 Original Permit Number: BK3638	EPR Reference: - Issue Date: 15/03/2002 Effective Date: 15/03/2002 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
J	405m SE	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM WORKS EPR/BK3638IF Process: MELTING, INCLUDING MAKING ALLOYS, OF NON-FERROUS METALS, INCLUDING RECOVERED PRO... Permit Number: BK3638IF Original Permit Number: HP3338VH	EPR Reference: - Issue Date: 20/07/2017 Effective Date: 20/07/2017 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
J	405m SE	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM WORKS EPR/BK3638IF Process: MELTING, INCLUDING MAKING ALLOYS, OF NON-FERROUS METALS, INCLUDING RECOVERED PRO... Permit Number: BK3638IF Original Permit Number: HP3338VH	EPR Reference: - Issue Date: 20/07/2017 Effective Date: 20/07/2017 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
J	405m SE	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM WORKS EPR/BK3638IF Process: MELTING, INCLUDING MAKING ALLOYS OF, NON-FERROUS METALS, INCLUDING RECOVERED PRODUCTS AND THE OPERATION OF NON-FERROUS METAL FOUNDRIES WHERE THE PLANT HAS A MELTING CAPACITY OF MORE THAN 4 TONNES PER DAY FOR LEAD OR CADMIUM OR 20 TONNES PER DAY FOR ALL OTHER METALS Permit Number: BK3638IF Original Permit Number: HP3338VH	EPR Reference: - Issue Date: 21/10/2020 Effective Date: 21/10/2020 Last date noted as effective: 01/01/2022 Status: EFFECTIVE



ID	Location	Details	
J	405m SE	Operator: HYDRO ALUMINIUM DEESIDE LTD Installation Name: WREXHAM ALUMINIUM WORKS EPR/BK3638IF Process: MELTING, INCLUDING MAKING ALLOYS OF, NON-FERROUS METALS, INCLUDING RECOVERED PRODUCTS AND THE OPERATION OF NON-FERROUS METAL FOUNDRIES WHERE ANY FURNACE (OTHER THAN A VACUUM FURNACE), BATH OR OTHER HOLDING VESSEL USED IN THE PLANT FOR MELTING HAS A DESIGNED HOLDING CAPACITY OF 5 OR MORE TONNES Permit Number: BK3638IF Original Permit Number: HP3338VH	EPR Reference: - Issue Date: 21/10/2020 Effective Date: 21/10/2020 Last date noted as effective: 01/01/2022 Status: EFFECTIVE

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

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

Records within 500m

3

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

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Address	Details	
F	136m W	Applied Component Technology Ltd, 54 Clywedog Road South, Wrexham Industrial Estate, Wrexham, LL13 9XS	Process: Di-isocyanate Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified. Date of enforcement: No Enforcement Notified. Comment: No Enforcement Notified.
J	408m SE	Hydro Aluminium Deeside Ltd, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9SQ	Process: Non-ferrous Metal Foundry Processes Status: Historical Permit Permit Type: Part B	Enforcement: Enforcement Notified Date of enforcement: 30/03/2006 Comment: Wood processing
M	461m SE	Williams Services & Steve Williams Transport, Unit 11 Bridge Way Centre, Bridge Road, Wrexham Industrial Estate, Wrexham, LL13 9QS	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcement Notified. Date of enforcement: No Enforcement Notified. Comment: No Enforcement Notified.

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

5

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Address	Details	
E	102m N	Unit 2, LITTLE ERLAS, ERLAS LANE, Abenbury, Wrexham, LL13 OPE	Effluent Type: - Permit Number: CG0337201 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: Effective Issue date: 22/04/1993 Effective Date: 22/04/1993 Revocation Date: -
E	112m N	Unit 2, LITTLE ERLAS, ERLAS LANE, Abenbury, Wrexham, LL13 OPE	Effluent Type: - Permit Number: CG0337202 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: Effective Issue date: 22/04/1993 Effective Date: 22/04/1993 Revocation Date: -
E	122m N	Unit 2, LITTLE ERLAS, ERLAS LANE, Abenbury, Wrexham, LL13 OPE	Effluent Type: - Permit Number: CG0337203 Permit Version: 1 Receiving Water: REDWITHER BROOK	Status: Effective Issue date: 22/04/1993 Effective Date: 22/04/1993 Revocation Date: -
G	182m E	PLOT 6 WREXHAM IND EST, CLYWEDOG ROAD	Effluent Type: UNSPECIFIED Permit Number: CM0207401 Permit Version: 1 Receiving Water: STREAM NR REDWITHER BROOK	Status: REVOKED - UNSPECIFIED Issue date: 01/01/1901 Effective Date: 01/01/1901 Revocation Date: 28/01/1990
G	182m E	PLOT 6 WREXHAM IND EST, CLYWEDOG ROAD	Effluent Type: UNSPECIFIED Permit Number: CM0207401 Permit Version: 2 Receiving Water: STREAM NR REDWITHER BROOK	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 29/01/1990 Effective Date: 29/01/1990 Revocation Date: 06/05/1993

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



4.14 Pollutant release to surface waters (Red List)

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

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

4.15 Pollutant release to public sewer

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

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

4.16 List 1 Dangerous Substances

Records within 500m	0
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Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

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

4.17 List 2 Dangerous Substances

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

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	17
---------------------	----

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

Features are displayed on the Current industrial land use map on **page 31**

ID	Location	Details	
D	110m W	Incident Date: 09/07/2003 Incident Identification: 172217 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
5	134m NE	Incident Date: 18/03/2002 Incident Identification: 64721 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	150m E	Incident Date: 04/05/2001 Incident Identification: 4393 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	203m E	Incident Date: 29/10/2015 Incident Identification: 1384243 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
9	227m NE	Incident Date: 04/02/2016 Incident Identification: 1408258 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
11	305m NE	Incident Date: 19/08/2019 Incident Identification: 1905523 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 2 (Significant) Land Impact: No Details Air Impact: Category 2 (Significant)
12	332m E	Incident Date: 01/06/2001 Incident Identification: 7295 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
13	343m E	Incident Date: 13/07/2004 Incident Identification: 250782 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
14	370m E	Incident Date: 08/08/2002 Incident Identification: 98530 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
J	391m SE	Incident Date: 08/05/2002 Incident Identification: 77311 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)



ID	Location	Details	
J	391m SE	Incident Date: 08/05/2002 Incident Identification: 77311 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
K	392m SE	Incident Date: 17/08/2001 Incident Identification: 25045 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
16	399m E	Incident Date: 03/10/2002 Incident Identification: 112354 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
K	401m SE	Incident Date: 02/07/2013 Incident Identification: 1127929 Pollutant: Other Pollutant Pollutant Description: Noise	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	422m E	Incident Date: 19/01/2006 Incident Identification: 371865 Pollutant: Organic Chemicals/Products Pollutant Description: Other Organic Chemical or Product	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	422m E	Incident Date: 19/01/2006 Incident Identification: 371865 Pollutant: Organic Chemicals/Products Pollutant Description: Pesticides and Biocides	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
M	464m SE	Incident Date: 16/07/2014 Incident Identification: 1256528 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m

0

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

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



4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m

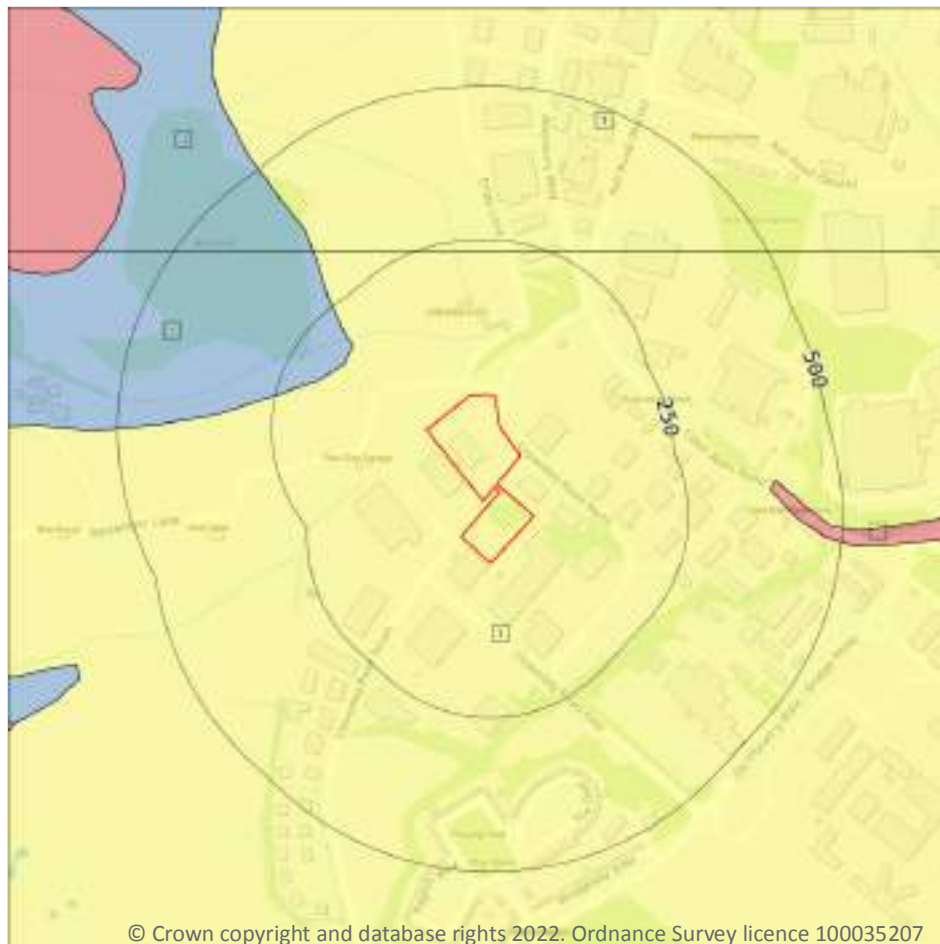
0

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

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



5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

5

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 44**

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	169m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

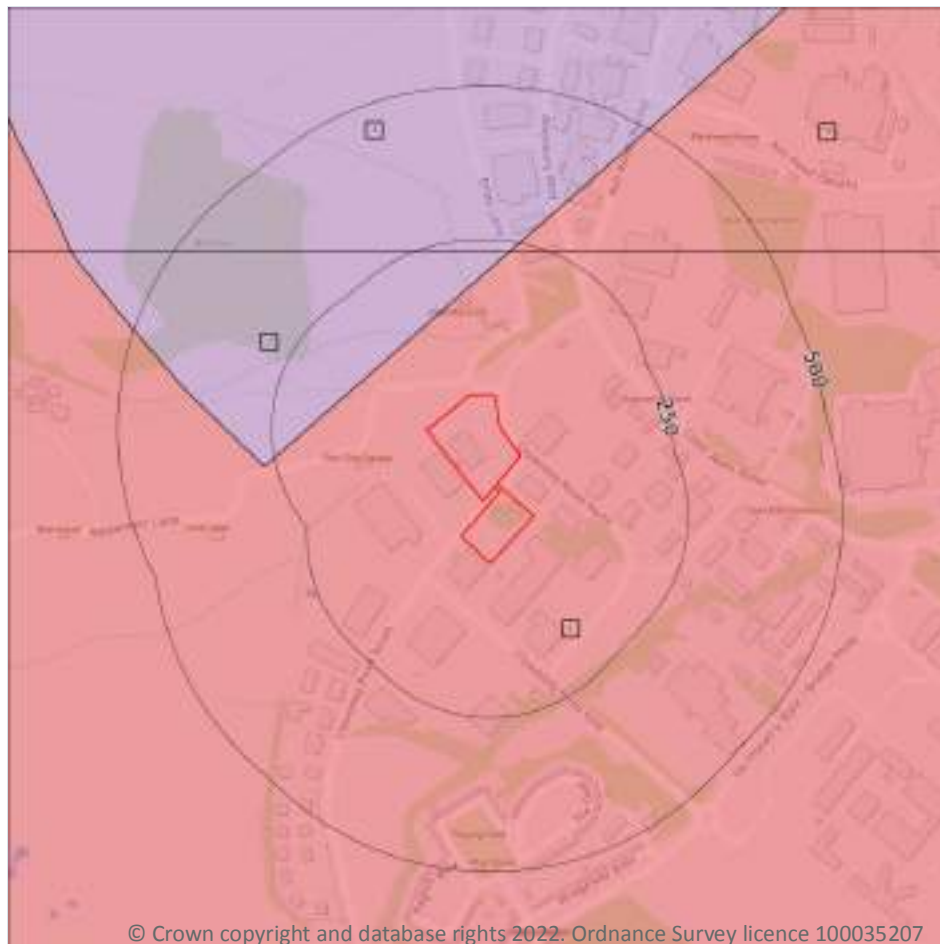


ID	Location	Designation	Description
3	232m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	341m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
5	386m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

4

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 46**

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	127m NW	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

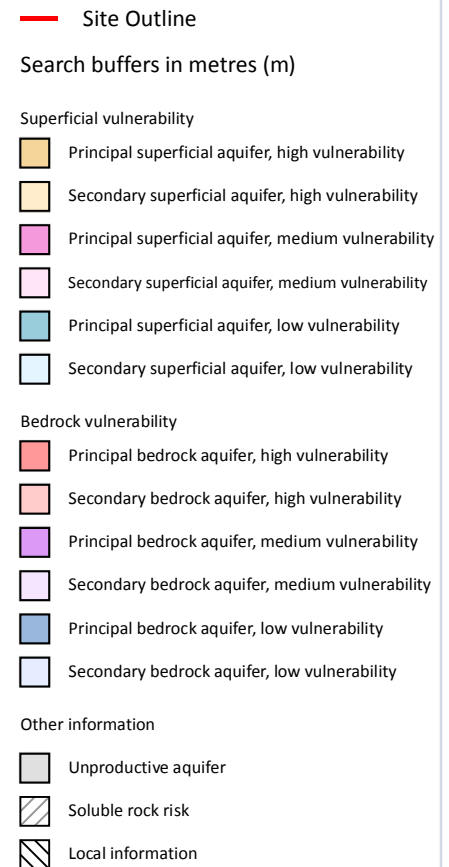
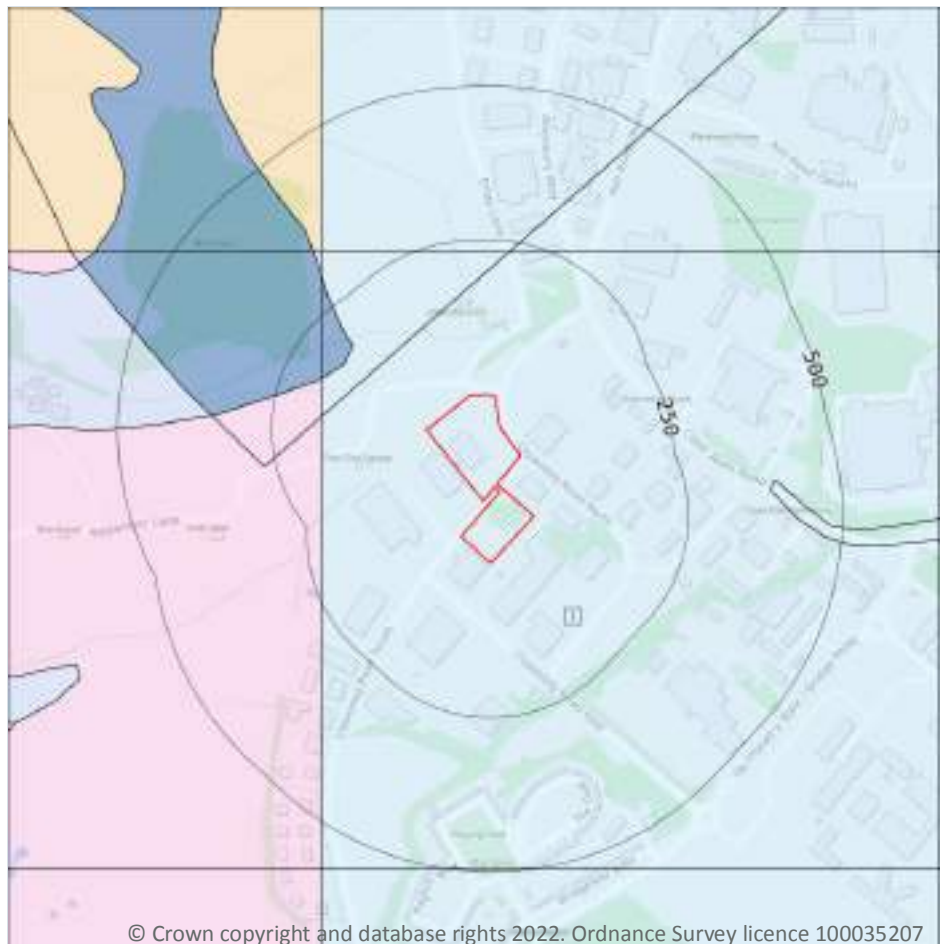


ID	Location	Designation	Description
3	232m N	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
4	234m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

1

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

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

Features are displayed on the Groundwater vulnerability map on **page 48**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0
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This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

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

5.5 Groundwater vulnerability- local information

Records on site	0
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This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

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

Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

11

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 50**



ID	Location	Details	
-	1016m SE	Status: Historical Licence No: 24/67/7/0213 Details: Process water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA., OB1 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338240 Northing: 349090	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/09/1998 Expiry Date: 10/09/2001 Issue No: 100 Version Start Date: 10/09/1998 Version End Date: -
-	1016m SE	Status: Historical Licence No: 24/67/7/0222 Details: Process Water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA., OB1 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338240 Northing: 349090	Annual Volume (m³): 131400 Max Daily Volume (m³): 600 Original Application No: - Original Start Date: 10/09/2001 Expiry Date: 31/03/2012 Issue No: 1 Version Start Date: 10/09/2001 Version End Date: -
-	1016m SE	Status: Historical Licence No: WA/067/0007/006 Details: Process Water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA., OB1 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338240 Northing: 349090	Annual Volume (m³): 131400 Max Daily Volume (m³): 600 Original Application No: - Original Start Date: 01/04/2012 Expiry Date: 31/03/2022 Issue No: 1 Version Start Date: 01/04/2012 Version End Date: -
-	1054m SE	Status: Historical Licence No: 24/67/7/0213 Details: Process water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA. BOREHOLE AW1 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338190 Northing: 348940	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/09/1998 Expiry Date: 10/09/2001 Issue No: 100 Version Start Date: 10/09/1998 Version End Date: -
-	1054m SE	Status: Historical Licence No: 24/67/7/0222 Details: Process Water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA. BOREHOLE AW1 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338190 Northing: 348940	Annual Volume (m³): 131400 Max Daily Volume (m³): 600 Original Application No: - Original Start Date: 10/09/2001 Expiry Date: 31/03/2012 Issue No: 1 Version Start Date: 10/09/2001 Version End Date: -



ID	Location	Details	
-	1054m SE	Status: Historical Licence No: WA/067/0007/006 Details: Process Water Direct Source: EAW Groundwater Point: 144M DEEP, 150MM DIA. BOREHOLE AW1 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338190 Northing: 348940	Annual Volume (m ³): 131400 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 01/04/2012 Expiry Date: 31/03/2022 Issue No: 1 Version Start Date: 01/04/2012 Version End Date: -
-	1054m SE	Status: Active Licence No: WA/067/0007/006 Details: Process Water - Medium Direct Source: Underground strata Point: - Data Type: Point Name: - Easting: 338190 Northing: 348940	Annual Volume (m ³): 131,400 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: Oct 2 2016 12:00AM Expiry Date: Mar 30 2027 12:00AM Issue No: - Version Start Date: - Version End Date: -
-	1078m E	Status: Historical Licence No: WA/067/0007/006 Details: Process Water Direct Source: EAW Groundwater Point: SPECTRUM BUSINESS PARK BOREHOLE AW2 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338350 Northing: 349180	Annual Volume (m ³): 131400 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 01/04/2012 Expiry Date: 31/03/2022 Issue No: 1 Version Start Date: 01/04/2012 Version End Date: -
-	1084m E	Status: Historical Licence No: 24/67/7/0213 Details: Process water Direct Source: EAW Groundwater Point: 144 M DEEP, 200MM DIA BH AW2 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338360 Northing: 349190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/09/1998 Expiry Date: 10/09/2001 Issue No: 100 Version Start Date: 10/09/1998 Version End Date: -
-	1084m E	Status: Historical Licence No: 24/67/7/0222 Details: Process Water Direct Source: EAW Groundwater Point: 144 M DEEP, 200MM DIA BH AW2 Data Type: Point Name: Calypso Soft Drinks Ltd Easting: 338360 Northing: 349190	Annual Volume (m ³): 131400 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 10/09/2001 Expiry Date: 31/03/2012 Issue No: 1 Version Start Date: 10/09/2001 Version End Date: -



ID	Location	Details	
-	1623m NE	Status: Historical Licence No: 24/67/9/0130 Details: General Farming & Domestic Direct Source: EAW Groundwater Point: WELL Data Type: Point Name: Taylor Easting: 337980 Northing: 351230	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/06/1968 Expiry Date: - Issue No: 100 Version Start Date: 14/06/1968 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

1

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 50**

ID	Location	Details	
-	905m NE	Status: Historical Licence No: 24/67/7/0178 Details: Non-Evaporative Cooling Direct Source: EAW Surface Water Point: TRIBUTARY OF REDWITHER BROOK Data Type: Point Name: Caparo Wire Ltd Easting: 337810 Northing: 350500	Annual Volume (m ³): 9955.74 Max Daily Volume (m ³): 27.276 Original Application No: - Original Start Date: 12/05/1972 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2007 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

0

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

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



5.9 Source Protection Zones

Records within 500m**2**

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on **page 50**

ID	Location	Type	Description
1	90m NW	3	Total catchment
2	192m W	3	Total catchment

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m**0**

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

23

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

Features are displayed on the Hydrology map on **page 55**

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



ID	Location	Type of water feature	Ground level	Permanence	Name
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	82m SW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	84m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Redwither Brook
A	84m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Redwither Brook
A	86m N	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
A	86m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Redwither Brook
D	91m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Redwither Brook
C	92m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	128m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Redwither Brook
A	128m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	131m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
A	150m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	153m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	154m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
8	159m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	199m E	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
A	202m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	221m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Redwither Brook
H	223m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Redwither Brook
I	235m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

15

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

Features are displayed on the Hydrology map on **page 55**

This data is sourced from the Ordnance Survey.



6.3 WFD Surface water body catchments

Records on site **1**

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

Features are displayed on the Hydrology map on **page 55**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
3	On site	River WB catchment	Clywedog - Dee to Gwenfro	GB111067052110	Clywedog - Dee	Dee

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

6.4 WFD Surface water bodies

Records identified **1**

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

Features are displayed on the Hydrology map on **page 55**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1033m S	River	Clywedog - Dee to Gwenfro	GB111067052110	Moderate	Fail	Moderate	2016

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

6.5 WFD Groundwater bodies

Records on site **1**

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

Features are displayed on the Hydrology map on **page 55**



ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Dee Permo-Triassic Sandstone	GB41101G202400	Poor	Poor	Good	2019

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



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m

0

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

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

7.2 Historical Flood Events

Records within 250m

0

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

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

7.3 Flood Defences

Records within 250m

0

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

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



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

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

7.7 Flood Zone 3

Records within 50m

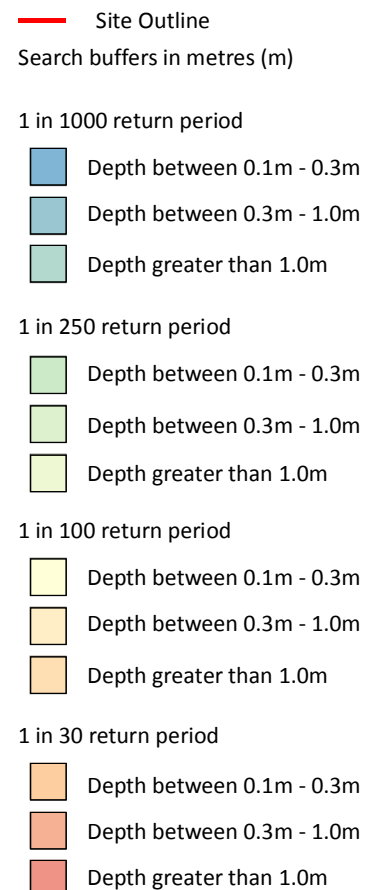
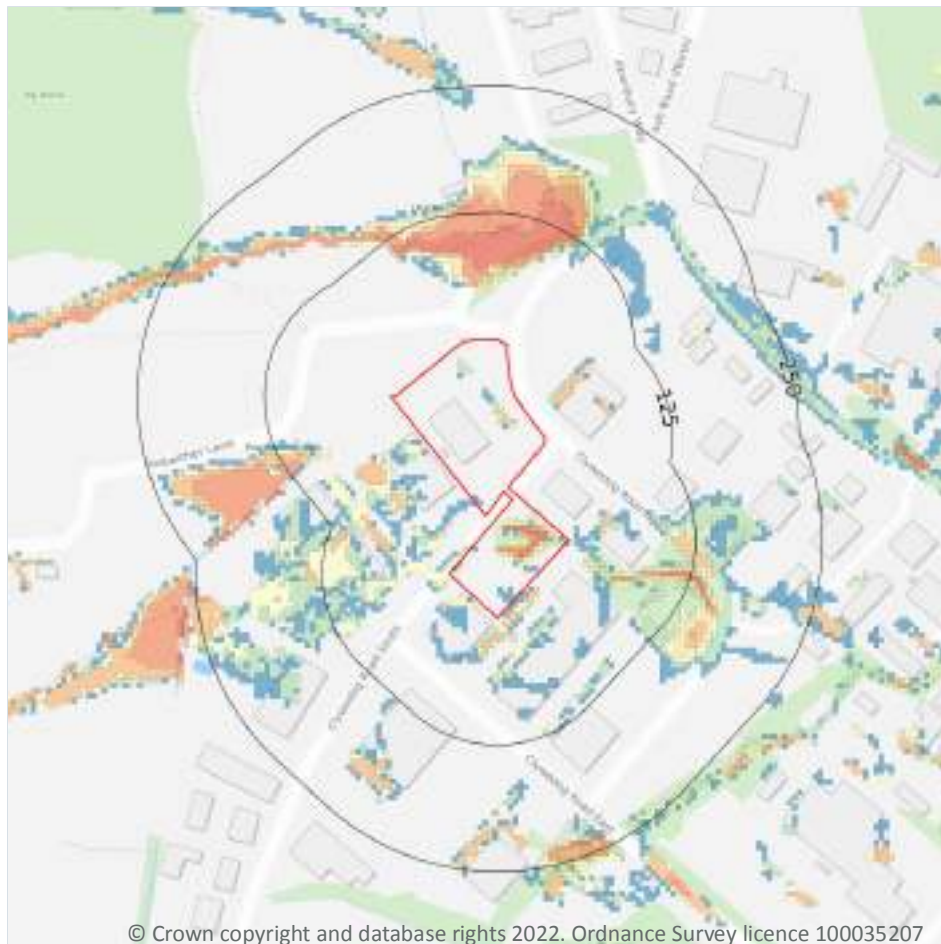
0

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

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

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

Features are displayed on the Surface water flooding map on **page 63**

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



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

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Low

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

Features are displayed on the Groundwater flooding map on **page 65**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m

0

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

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

10.7 Designated Ancient Woodland

Records within 2000m

25

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

Features are displayed on the Environmental designations map on **page 66**

ID	Location	Name	Woodland Type
1	223m NW	Unknown	Ancient Semi Natural Woodland
2	233m SE	Unknown	Ancient Semi Natural Woodland
A	436m NE	Unknown	Restored Ancient Woodland Site
A	437m NE	Unknown	Restored Ancient Woodland Site
3	825m W	Unknown	Ancient Semi Natural Woodland
4	928m N	Unknown	Ancient Semi Natural Woodland
5	1218m N	Unknown	Restored Ancient Woodland Site
6	1241m SW	Unknown	Ancient Semi Natural Woodland
7	1258m SW	Unknown	Restored Ancient Woodland Site
8	1279m SW	Unknown	Ancient Semi Natural Woodland
-	1398m W	Unknown	Ancient Semi Natural Woodland
-	1407m W	Unknown	Ancient Semi Natural Woodland
-	1605m NW	Unknown	Ancient Semi Natural Woodland
-	1640m SW	Unknown	Ancient Semi Natural Woodland
-	1702m W	Unknown	Restored Ancient Woodland Site
-	1707m SW	Unknown	Ancient Semi Natural Woodland



ID	Location	Name	Woodland Type
-	1716m SW	Unknown	Ancient Semi Natural Woodland
-	1720m W	Unknown	Restored Ancient Woodland Site
-	1725m SW	Unknown	Ancient Semi Natural Woodland
-	1750m W	Unknown	Ancient Semi Natural Woodland
-	1816m SW	Unknown	Ancient Semi Natural Woodland
-	1852m SE	Unknown	Ancient Semi Natural Woodland
-	1861m SE	Unknown	Ancient Semi Natural Woodland
-	1884m SE	Unknown	Ancient Semi Natural Woodland
-	1987m SE	Unknown	Ancient Semi Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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



10.11 Green Belt

Records within 2000m

0

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

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was



closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

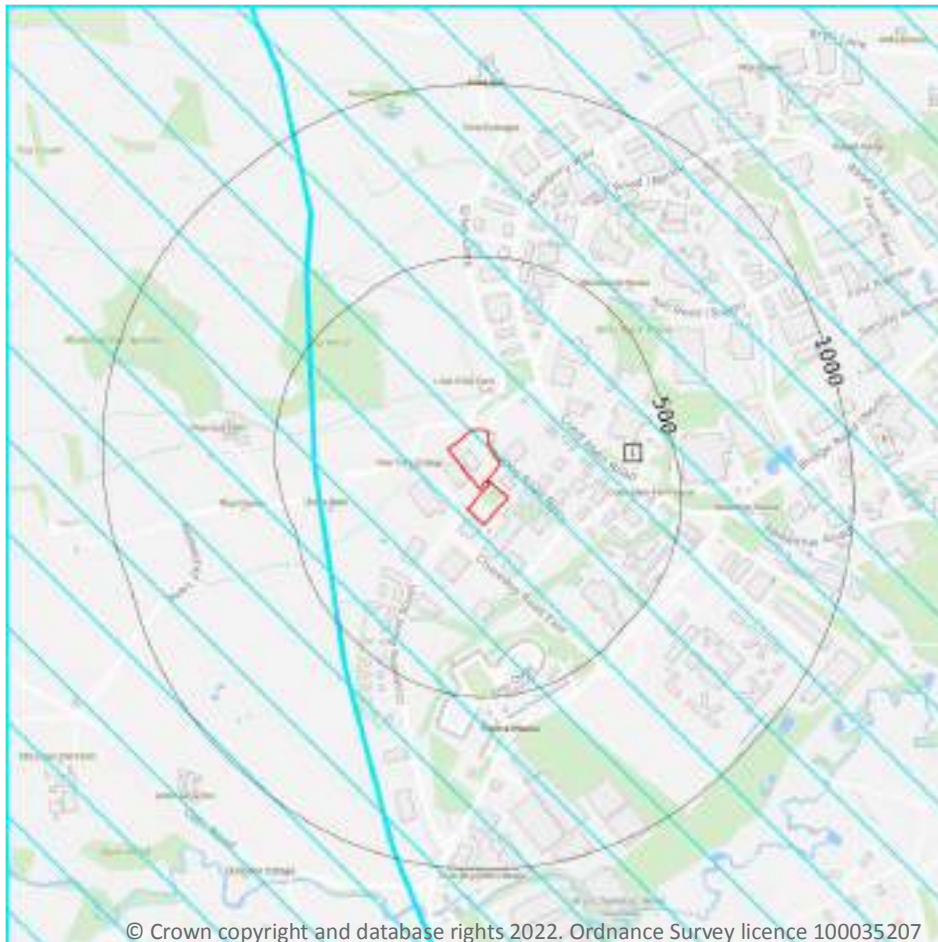
0

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

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



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 72**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t). Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

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

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

0

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

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



12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Timber felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

4

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

Features are displayed on the Agricultural designations map on **page 76**

ID	Location	Classification	Description
1	On site	Grade 3a	Good to moderate quality agricultural land
3	122m SE	Grade 3a	Good to moderate quality agricultural land
4	146m S	Grade 3a	Good to moderate quality agricultural land



ID	Location	Classification	Description
9	246m S	Grade 3a	Good to moderate quality agricultural land

This data is sourced from Natural Resources Wales.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m

0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

2

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

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 79**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SJ34NE
2	232m N	Full	Full	Full	No coverage	SJ35SE

This data is sourced from the British Geological Survey.



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



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

14.2 Artificial and made ground (10k)

Records within 500m

6

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 80**

ID	Location	LEX Code	Description	Rock description
1	On site	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
A	141m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	196m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	235m N	LSGR-UNKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry

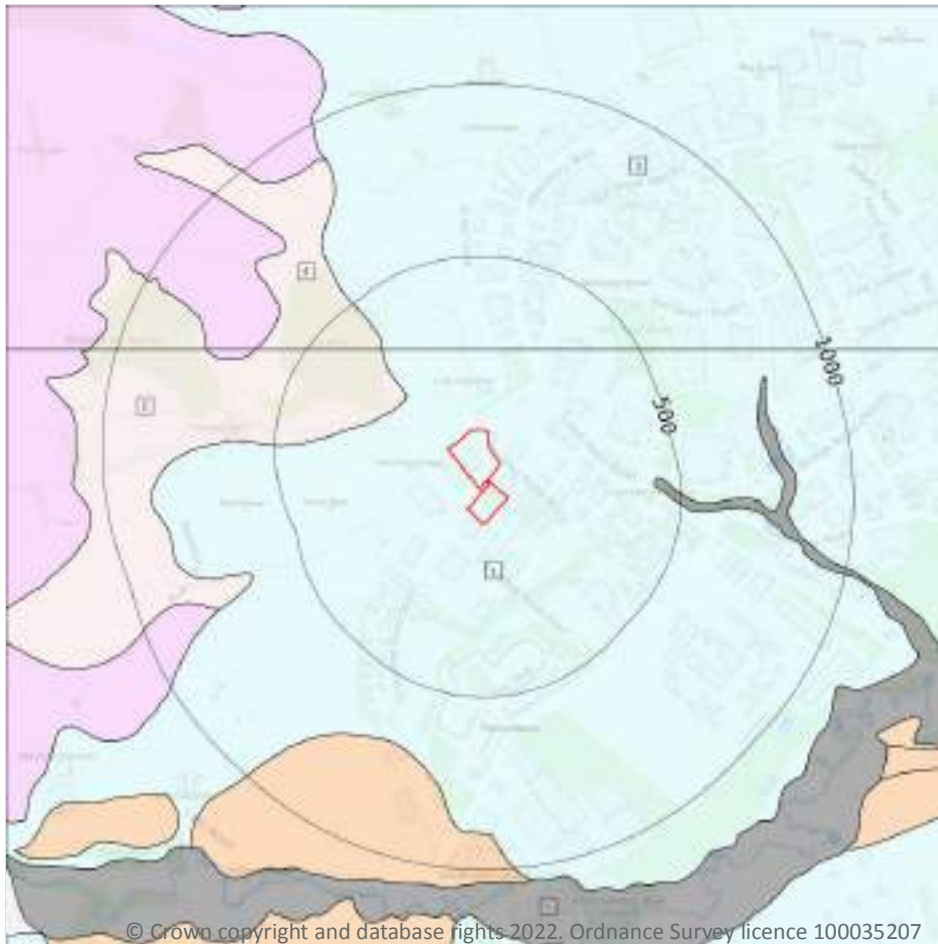


ID	Location	LEX Code	Description	Rock description
3	264m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	454m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



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

14.3 Superficial geology (10k)

Records within 500m

5

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 82**

ID	Location	LEX Code	Description	Rock description
1	On site	TILL-DMTN	Till - Diamicton	Diamicton
2	186m NW	GLLD-C	Glaciolacustrine Deposits - Clay	Clay
3	232m N	TILL-DMTN	Till - Diamicton	Diamicton
4	346m NW	GLLD-C	Glaciolacustrine Deposits - Clay	Clay



ID	Location	LEX Code	Description	Rock description
5	426m E	ALV-C	Alluvium - Clay (unlithified Deposits Coding Scheme)	Clay

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m

4

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 84**

ID	Location	LEX Code	Description	Rock age
1	On site	SAL-CYCCM	Salop Formation - Sedimentary Rock Cycles, Coal Measure Type	Cisuralian Epoch - Westphalian D Sub-age
2	127m NW	KNSF-SDST	Kinnerton Sandstone Formation - Sandstone	Early Triassic Epoch
4	232m N	KNSF-SDST	Kinnerton Sandstone Formation - Sandstone	Early Triassic Epoch



ID	Location	LEX Code	Description	Rock age
5	235m N	SAL-MDST	Salop Formation - Mudstone	Cisuralian Epoch - Westphalian D Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

2

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 84**

ID	Location	Category	Description
3	127m NW	FAULT	Normal fault, inferred
6	235m N	FAULT	Normal fault, inferred

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 86**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW121_wrexham_v4

This data is sourced from the British Geological Survey.



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



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

15.2 Artificial and made ground (50k)

Records within 500m

3

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 87**

ID	Location	LEX Code	Description	Rock description
1	On site	LSGR-ARTGR	LANDSCAPED GROUND (UNDIVIDED)	ARTIFICIALLY MODIFIED GROUND
2	136m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	449m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m**1**

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

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

3

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 89**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
2	169m NW	GLLDD-XCZ	GLACIOLACUSTRINE DEPOSITS, DEVENSIAN	CLAY AND SILT
3	386m E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL



This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

1

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



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

15.8 Bedrock geology (50k)

Records within 500m

2

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 91**

ID	Location	LEX Code	Description	Rock age
1	On site	SAL-MDSC	SALOP FORMATION - MUDSTONE, SANDSTONE AND CONGLOMERATE	WESTPHALIAN
2	127m NW	KNSF-SDST	KINNERTON SANDSTONE FORMATION - SANDSTONE	-

This data is sourced from the British Geological Survey.



15.9 Bedrock permeability (50k)

Records within 50m

1

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

1

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

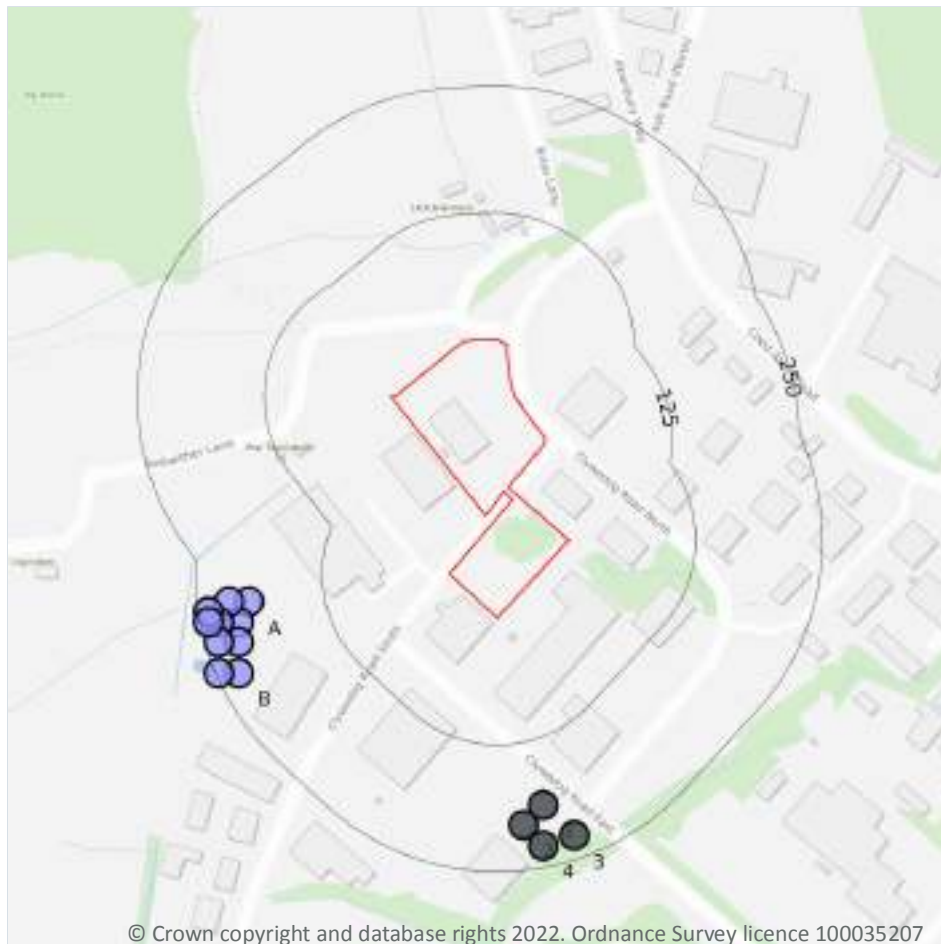
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 91**

ID	Location	Category	Description
3	127m NW	FAULT	Fault, inferred, displacement unknown

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

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16.1 BGS Boreholes

Records within 250m

14

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 93**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	190m S	337320 349310	WELSH IND EST. PROPOSED SUBSTATION, TRIAL PIT.4	-	Y	N/A
A	199m W	337030 349510	WREXHAM IND EST. PLANS 3 & 4, TP7	3.0	N	153223

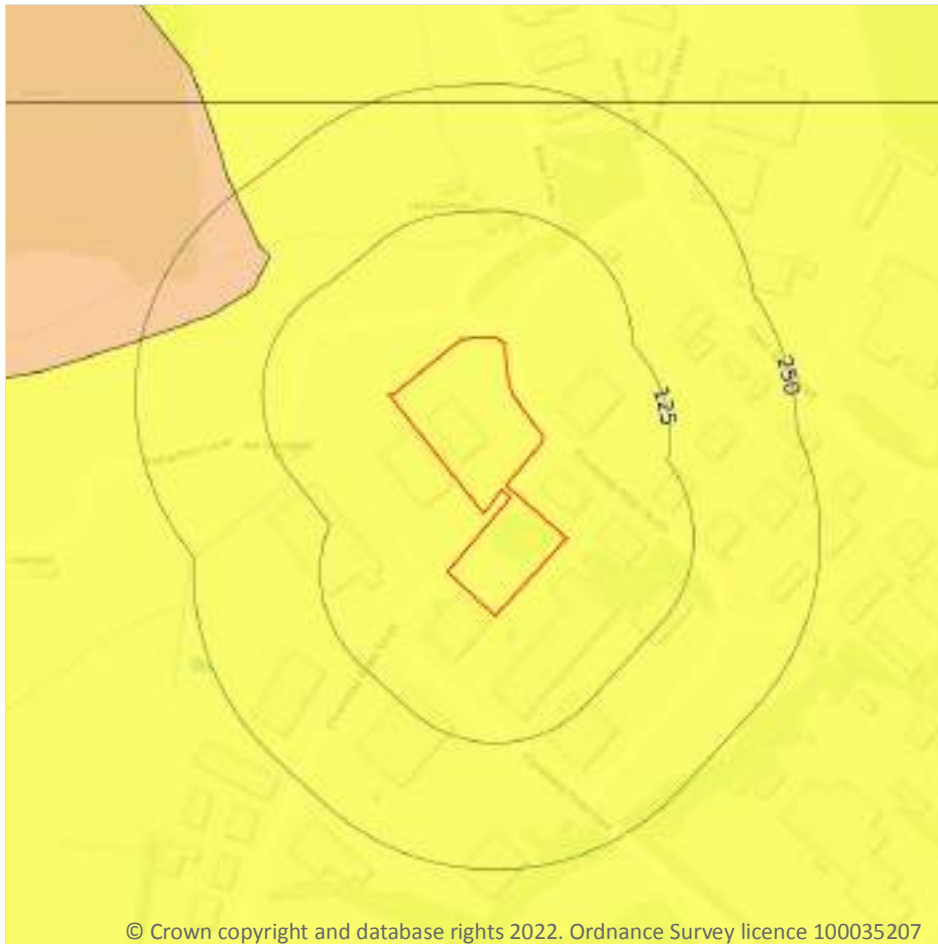


ID	Location	Grid reference	Name	Length	Confidential	Web link
2	206m S	337300 349290	WELSH IND EST. PROPOSED SUBSTATION, TRIAL PIT.1	-	Y	N/A
A	213m W	337020 349490	WREXHAM IND EST. PLANS 3 & 4, TP4	3.0	N	153220
A	218m W	337020 349470	WREXHAM IND EST. PLANS 3 & 4, TP 1	3.0	N	153217
A	219m W	337010 349510	WREXHAM IND EST. PLANS 3 & 4, TP8	3.0	N	153224
3	227m S	337350 349280	WELSH IND EST. PROPOSED SUBSTATION, TRIAL PIT.3	-	Y	N/A
4	229m S	337320 349270	WELSH IND EST. PROPOSED SUBSTATION, TRIAL PIT.2	-	Y	N/A
B	229m SW	337020 349440	WREXHAM INDUSTRIAL ESTATE (PLANS 3 & 4) 12	5.0	N	153228
A	232m W	337000 349490	WREXHAM IND EST. PLANS 3 & 4, TP5	3.0	N	153221
A	237m W	337000 349470	WREXHAM IND EST. PLANS 3 & 4, TP2	3.0	N	153218
A	240m W	336990 349500	WREXHAM INDUSTRIAL ESTATE (PLANS 3 & 4) 9	5.0	N	153225
A	242m W	336990 349490	WREXHAM IND EST. PLANS 3 & 4, TP6	3.0	N	153222
B	247m SW	337000 349440	WREXHAM INDUSTRIAL ESTATE (PLANS 3 & 4) 11	4.0	N	153227

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



— Site Outline
Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m

1

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

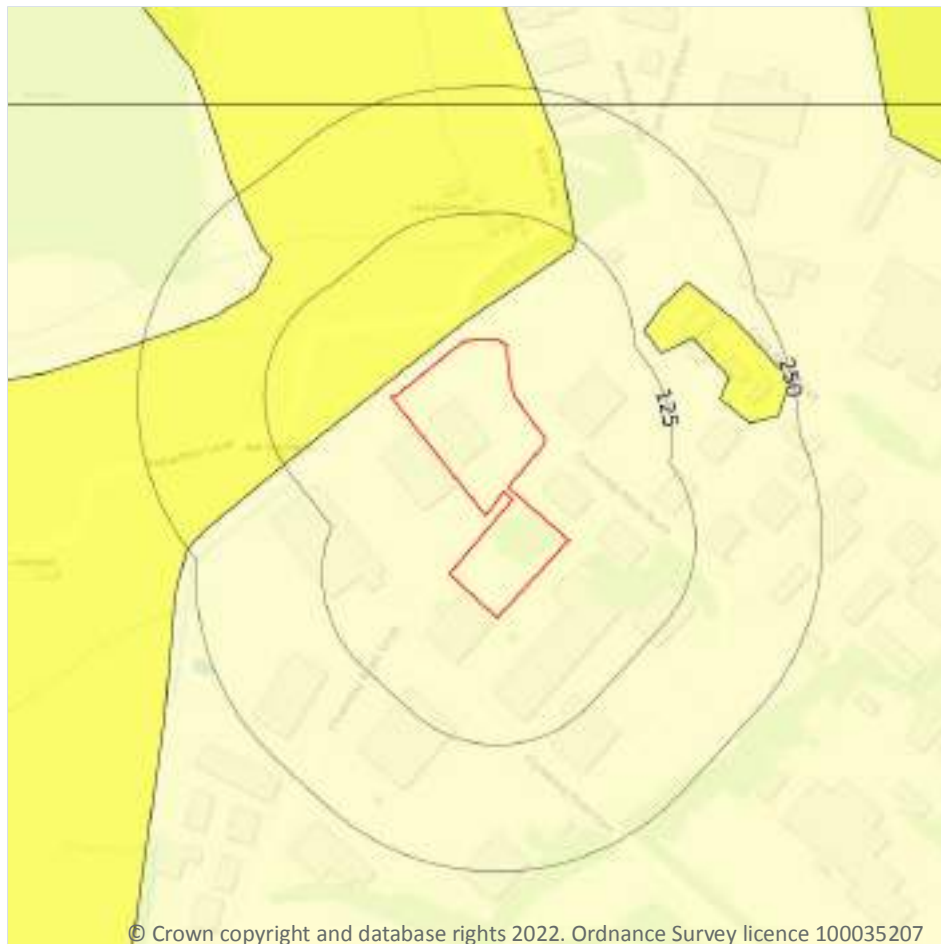
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 95**

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.2 Running sands

Records within 50m

2

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 96**

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

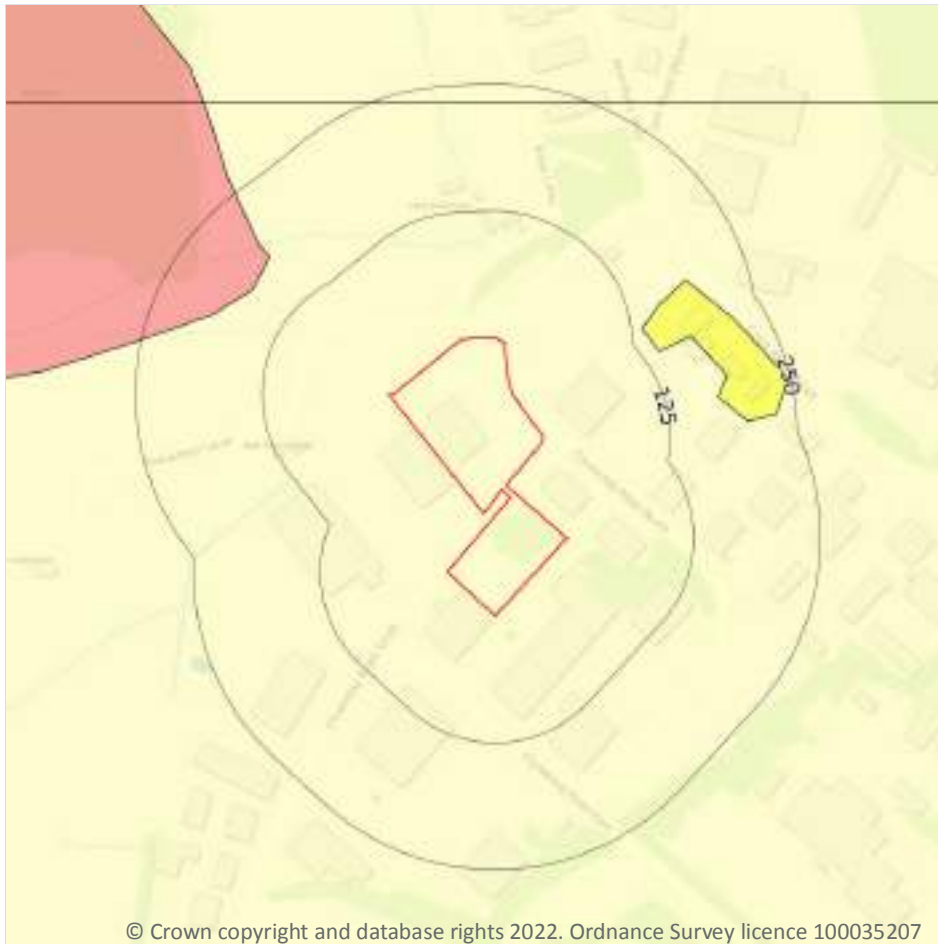


Location	Hazard rating	Details
13m NW	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.3 Compressible deposits

Records within 50m

1

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

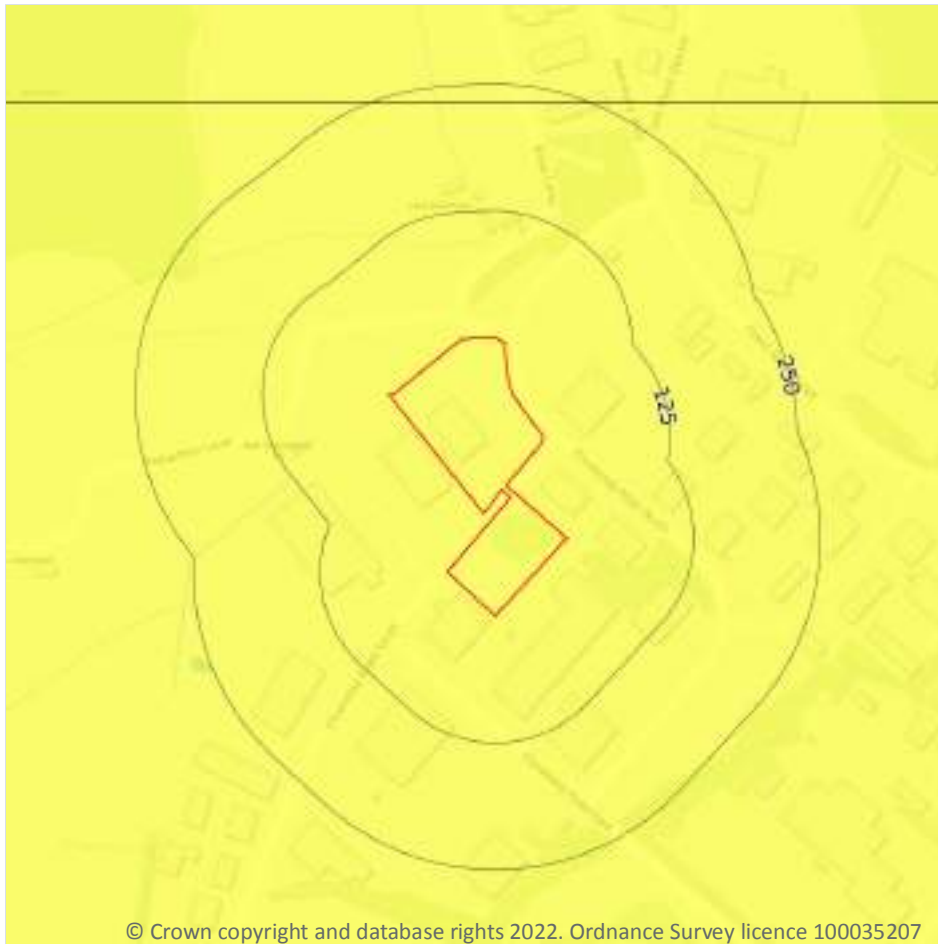
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 98**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



- Site Outline**
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.4 Collapsible deposits

Records within 50m

1

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

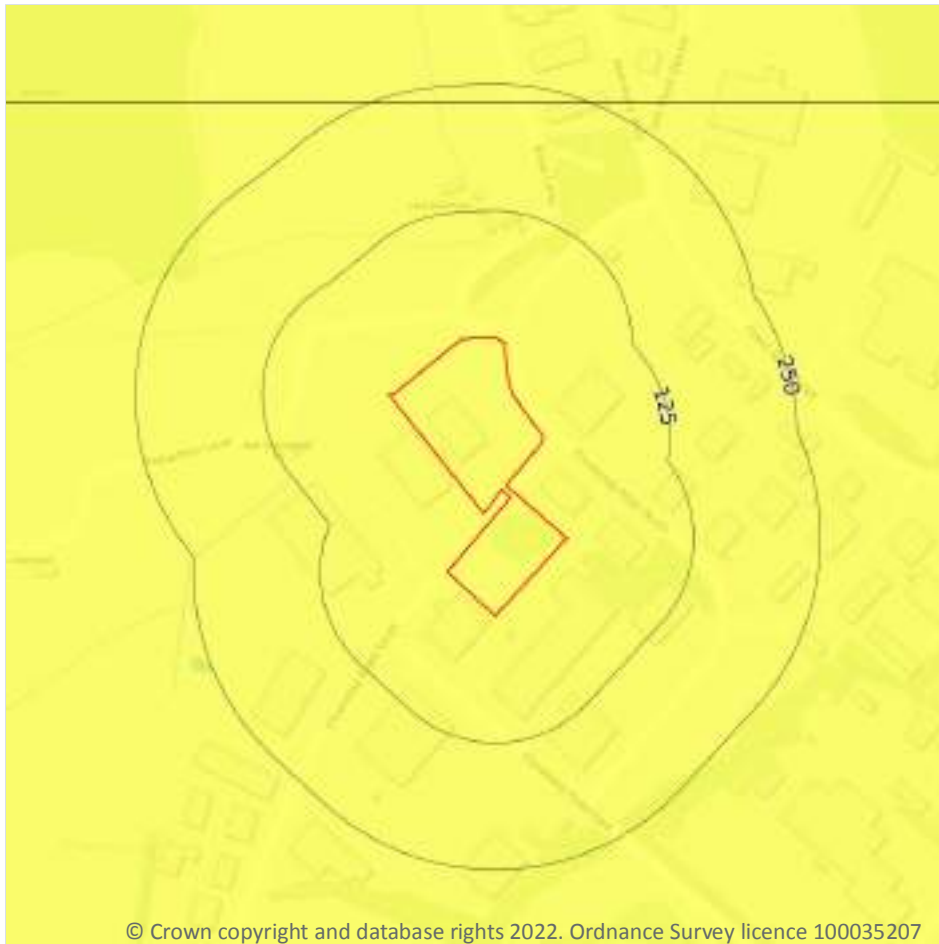
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 99**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



— Site Outline
Search buffers in metres (m)

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

17.5 Landslides

Records within 50m

1

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

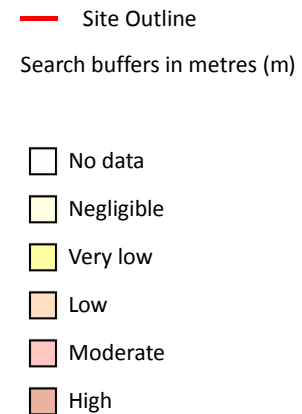
Features are displayed on the Natural ground subsidence - Landslides map on **page 100**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 101**

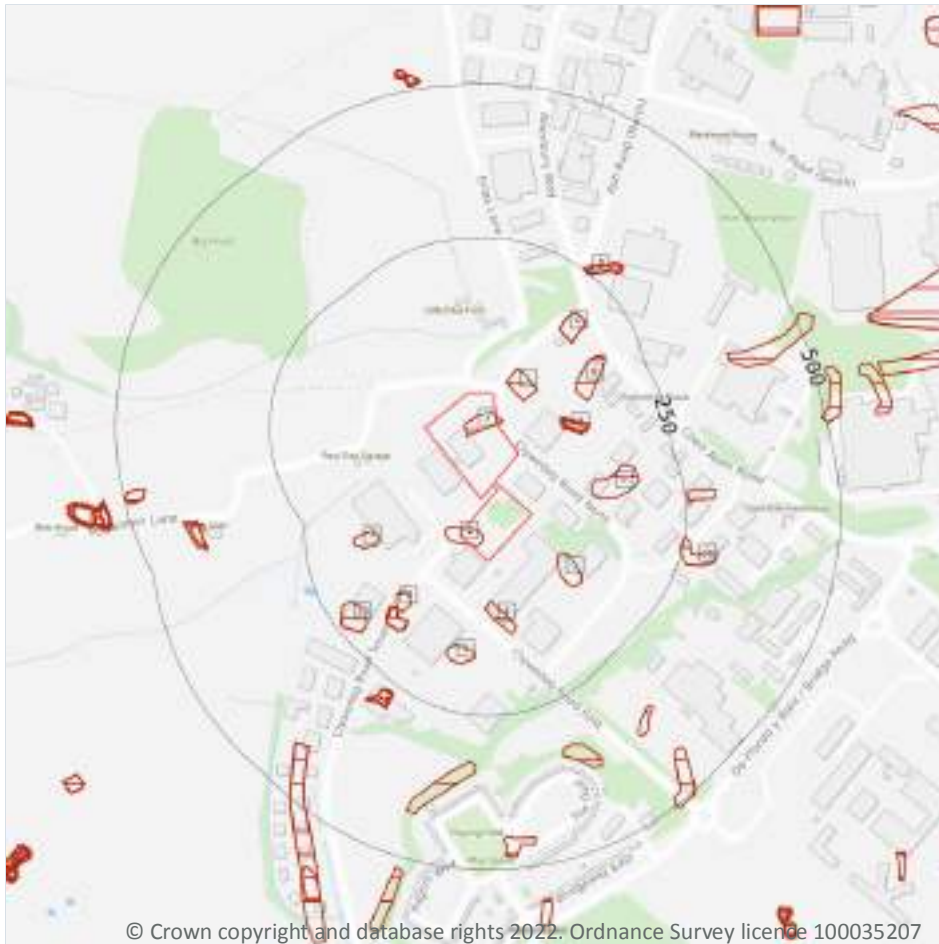
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

0

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

22

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 103**

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Unspecified Pit	1977	1:10000
2	On site	Unspecified Heap	1964	1:10560
3	28m NE	Unspecified Pit	1977	1:10000
4	64m S	Unspecified Heap	1964	1:10560
5	76m SE	Unspecified Heap	1964	1:10560
A	83m NE	Ponds	1938	1:10560
A	83m NE	Ponds	1872	1:10560
A	89m NE	Pond	1949	1:10560
A	89m NE	Pond	1898	1:10560
6	104m E	Unspecified Heap	1964	1:10560
B	125m SW	Unspecified Heap	1964	1:10560
7	132m W	Unspecified Heap	1964	1:10560
8	132m E	Unspecified Heap	1977	1:10000
9	143m S	Unspecified Heap	1964	1:10560
C	150m NE	Unspecified Pit	1977	1:10000
C	150m NE	Unspecified Pit	1964	1:10560
B	157m SW	Ponds	1872	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	158m SW	Ponds	1938	1:10560
10	197m SW	Unspecified Heap	1964	1:10560
11	246m E	Unspecified Heap	1977	1:10000
D	247m NE	Ponds	1872	1:10560
D	250m NE	Ponds	1938	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m 0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m 0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m 0

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

This data is sourced from the British Geological Survey.



18.7 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site

1

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

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site

0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.13 Clay mining

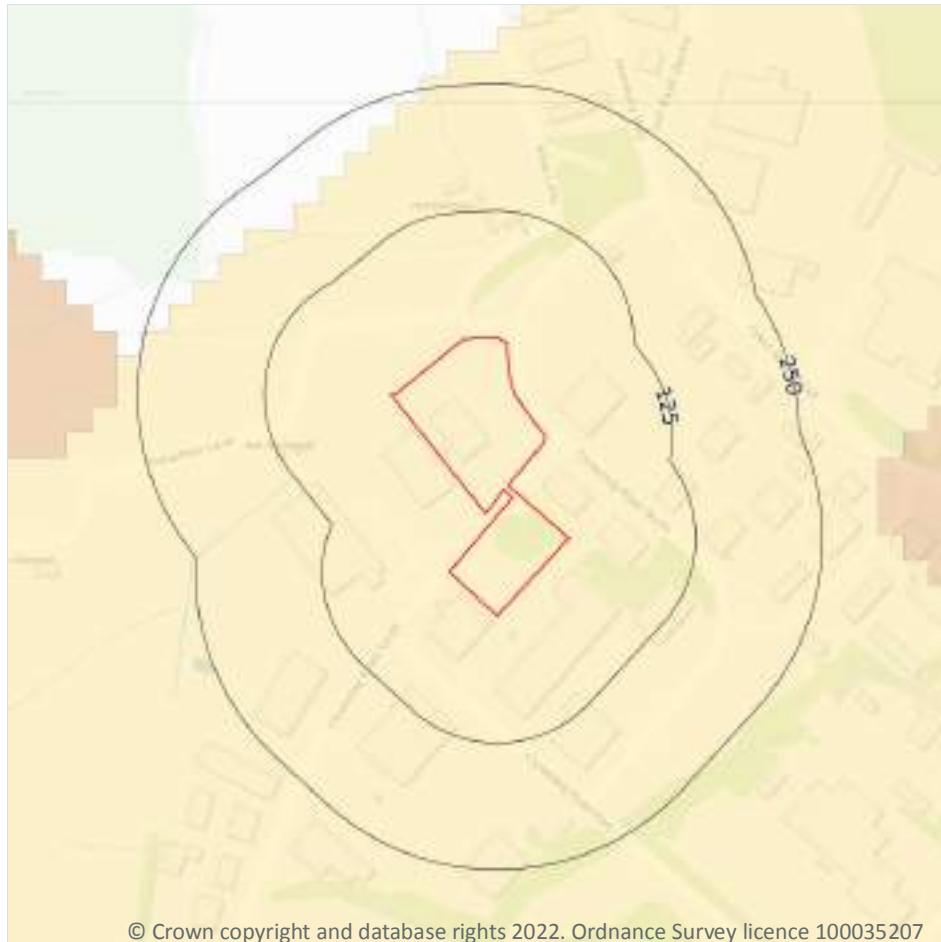
Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).



19 Radon



— Site Outline
Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site

1

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

Features are displayed on the Radon map on **page 108**

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None

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



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

2

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

0

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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



This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

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