

APPENDIX A



CENTREMAPS

Open Space, Upper Interfields,
Worcester, WR14 1UT

Groundsure Reference: CMAPS-CM-605307-30974-070317EDR

Your Reference: 30974

Report Date 7 Mar 2017

Report Delivery Method: Email - pdf

Groundsure Enviro Insight

Address: 4 Gresford Road, Llay, LL12 0NW

Dear Sir/ Madam,

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

If you need any further assistance, please do not hesitate to contact our helpline on 01886 832972 quoting the above CENTREMAPS reference number.

Yours faithfully,

CENTREMAPS

Enc.
Groundsure Enviroinsight

Groundsure Enviro Insight

Address: 4 Gresford Road, Llay, LL12 0NW
Date: 7 Mar 2017
Reference: CMAPS-CM-605307-30974-070317EDR
Client: CENTREMAPS



Aerial Photograph Capture date: 09-Jun-2013
Grid Reference: 333640,356235
Site Size: 15.63ha

Report Reference: CMAPS-CM-605307-30974-070317EDR
Client Reference: 30974

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Overview of Findings

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

Section 1: Historical Industrial Sites	On-site	0-50	51-250	251-500
1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping	0	2	20	18
1.2 Additional Information – Historical Tank Database	0	0	0	9
1.3 Additional Information – Historical Energy Features Database	0	0	7	12
1.4 Additional Information – Historical Petrol and Fuel Site Database	0	0	0	0
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database	0	5	0	11
1.6 Potentially Infilled Land	4	10	29	17
Section 2: Environmental Permits, Incidents and Registers	On-site	0-50m	51-250	251-500
2.1 Industrial Sites Holding Environmental Permits and/or Authorisations				
2.1.1 Records of historic IPC Authorisations	0	0	0	2
2.1.2 Records of Part A(1) and IPPC Authorised Activities	0	0	0	0
2.1.3 Records of Red List Discharge Consents	0	0	0	0
2.1.4 Records of List 1 Dangerous Substances Inventory sites	0	1	0	0
2.1.5 Records of List 2 Dangerous Substances Inventory sites	0	0	0	0
2.1.6 Records of Part A(2) and Part B Activities and Enforcements	0	0	0	2
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0
2.1.8 Records of Licensed Discharge Consents	0	0	2	6
2.1.9 Records of Water Industry Referrals	0	0	0	0
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site	0	0	0	0
2.2 Records of COMAH and NIHHS sites	0	0	0	0
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents				
2.3.1 National Incidents Recording System, List 2	0	0	24	14
2.3.2 National Incidents Recording System, List 1	0	0	1	0
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0

Section 3: Landfill and Other Waste Sites	On-site	0-50m	51-250	251-500	501-1000	1000-1500
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3.1 Landfill Sites

3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites	0	0	0	1	0	Not searched
3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites	0	0	1	0	4	1
3.1.3 BGS/DoE Landfill Site Survey	0	0	0	0	0	0
3.1.4 Records of Landfills in Local Authority and Historical Mapping Records	0	0	0	0	1	0

3.2 Landfill and Other Waste Sites Findings

3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	Not searched	Not searched
3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites	0	0	0	0	22	13

Section 4: Current Land Use	On-site	0-50m	51-250	251-500
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4.1 Current Industrial Sites Data	0	3	4	Not searched
4.2 Records of Petrol and Fuel Sites	0	0	1	0
4.3 National Grid Underground Electricity Cables	0	0	0	0
4.4 National Grid Gas Transmission Pipelines	0	0	0	0

Section 5: Geology

5.1 Are there any records of Artificial Ground and Made Ground present beneath the study site?

No

5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?

Yes

5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.

Section 6: Hydrogeology and Hydrology

0-500m

6.1 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site?

Yes

6.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site?

Yes

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
6.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	2
6.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	1	3
6.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	0
6.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	Not searched	Not searched
6.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	2	1	0	3	Not searched	Not searched

Section 6: Hydrogeology and Hydrology

0-500m

	On-site	0-50m	51-250	251-500	501-1000	1000-1500
6.9 Is there any Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site?	No	No	No	No	Yes	No
6.10 Detailed River Network entries within 500m of the site	0	0	1	3	Not searched	Not searched
6.11 Surface water features within 250m of the study site	No	No	Yes	Not searched	Not searched	Not searched

Section 7: Flooding

7.1 Are there any Environment Agency Zone 2 floodplains within 250m of the study site?	No					
7.2 Are there any Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site	No					
7.3 What is the Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site?	Very Low					
7.4 Are there any Flood Defences within 250m of the study site?	No					
7.5 Are there any areas benefiting from Flood Defences within 250m of the study site?	No					
7.6 Are there any areas used for Flood Storage within 250m of the study site?	No					
7.7 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Limited potential					
7.8 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	High					

Section 8: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
8.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	1	0	2
8.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
8.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
8.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
8.5 Records of Ramsar sites	0	0	0	0	0	0
8.6 Records of Ancient Woodlands	0	0	2	2	23	48
8.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	1
8.8 Records of World Heritage Sites	0	0	0	0	0	0
8.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0

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

Section 9: Natural Hazards	
9.1 What is the maximum risk of natural ground subsidence?	Very Low
9.1.1 What is the maximum Shrink-Swell hazard rating identified on the study site?	Very Low
9.1.2 What is the maximum Landslides hazard rating identified on the study site?	Very Low
9.1.3 What is the maximum Soluble Rocks hazard rating identified on the study site?	Negligible
9.1.4 What is the maximum Compressible Ground hazard rating identified on the study site?	Negligible
9.1.5 What is the maximum Collapsible Rocks hazard rating identified on the study site?	Very Low
9.1.6 What is the maximum Running Sand hazard rating identified on the study site?	Very Low
9.2 Radon	
9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?	The property is in a Radon Affected Area, as between 5 and 10% of properties are above the Action Level.
9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment?	Basic radon protective measures are necessary.

Section 10: Mining	
10.1 Are there any coal mining areas within 75m of the study site?	Yes
10.2 Are there any Non-Coal Mining areas within 50m of the study site boundary?	No
10.3 Are there any brine affected areas within 75m of the study site?	No

Using this report

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

1. Historical Industrial Sites

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

2. Environmental Permits, Incidents and Registers

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

3. Landfills and Other Waste Sites

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

4. Current Land Uses

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

5. Geology

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

6. Hydrogeology and Hydrology

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

7. Flooding

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

8. Designated Environmentally Sensitive Sites

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

9. Natural Hazards

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

10. Mining

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

11. Contacts

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

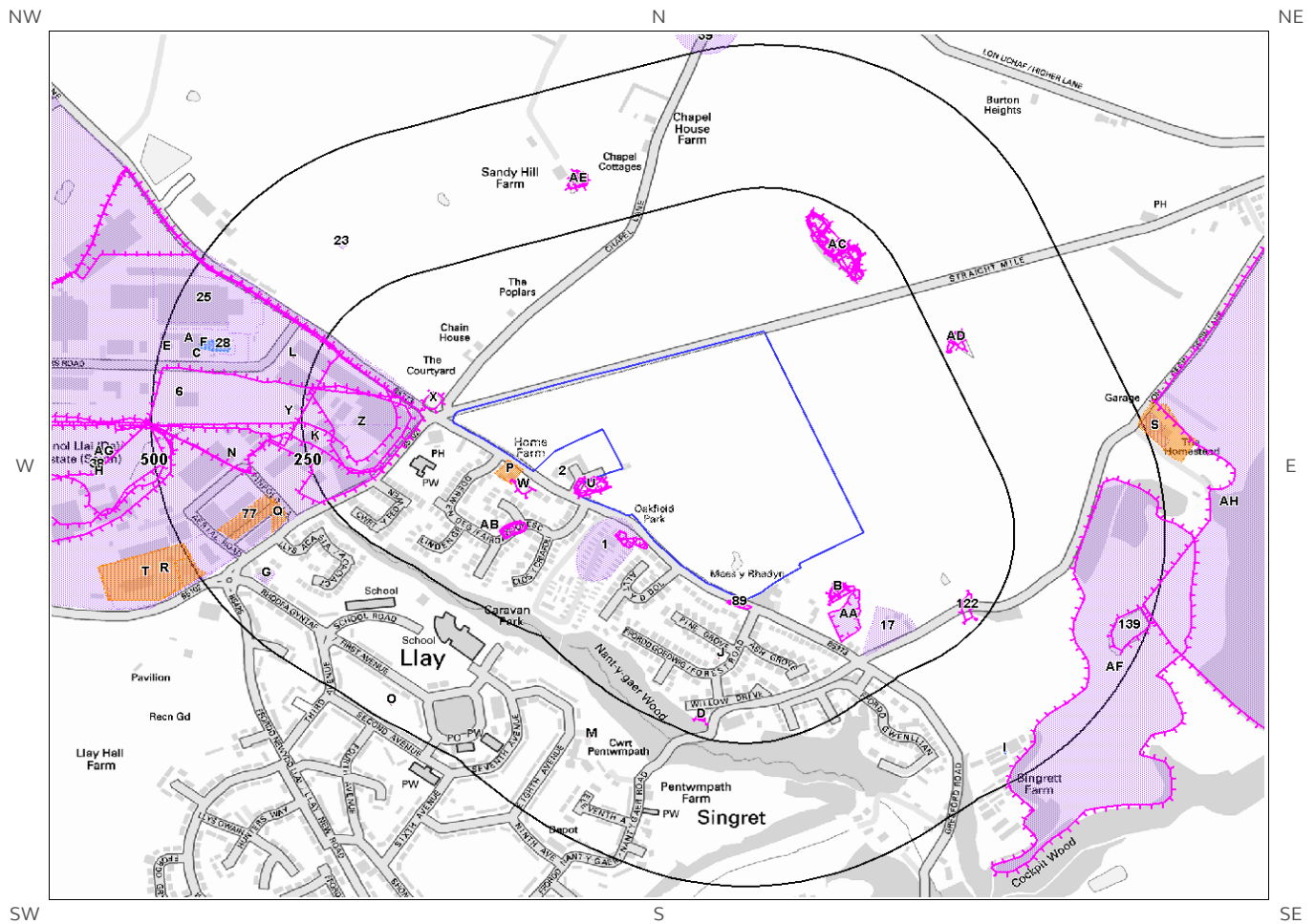
Note: Maps

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

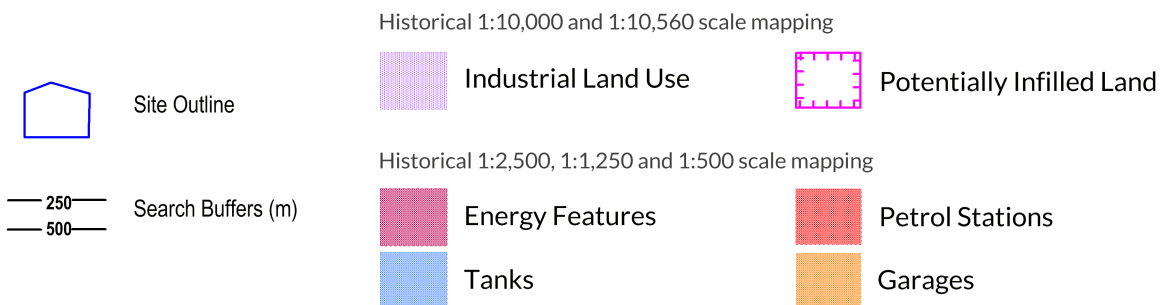
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

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

1. Historical Land Use



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1. Historical Industrial Sites

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

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

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 40

ID	Distance [m]	Direction	Use	Date
1	8	S	Earthwork	1909
2	30	NW	Wind Pump	1909
3A	51	W	Railway Sidings	1949
4Y	51	W	Refuse Heap	1949
5A	51	W	Colliery	1949
6	58	W	Industrial Estate	1992
7B	58	SE	Sand Pit	1938
8B	59	SE	Sand Pit	1949
9B	61	SE	Sand Pit	1909
10B	61	SE	Sand Pit	1900
11Z	70	W	Unspecified Heap	1979
12AA	84	SE	Unspecified Pit	1872
13A	93	W	Railway Sidings	1968
14A	93	W	Railway Sidings	1960
15C	93	W	Unspecified Mine	1968
16C	93	W	Unspecified Mine	1960
17	124	SE	Nursery	1992
18D	211	S	Gravel Pit	1938
19D	214	S	Gravel Pit	1949
20D	214	S	Gravel Pit	1909
21E	215	NW	Colliery	1938
22E	215	NW	Colliery	1938
23	342	NW	Magazine	1949
24F	353	W	Unspecified Factory	1979
25	353	NW	Unspecified Works	1979
26AF	355	E	Sand and Gravel Pit	1979
27F	378	W	Unspecified Tanks	1992
28	378	W	Unspecified Tanks	1979
29G	395	SW	Police Station	1979
30G	395	SW	Police Station	1968
31G	395	SW	Police Station	1992
32G	395	SW	Police Station	1960
33R	430	SW	Unspecified Factory	1979
34AG	466	W	Unspecified Disused Tip	1979

35H	470	W	Refuse Heap	1968
36H	470	W	Refuse Heap	1960
37AH	480	E	Disused Sand and Gravel Pit	1992
38	480	W	Refuse Heap	1949
39	492	N	Smithy	1872
40S	496	E	Garage	1992

1.2 Additional Information – Historical Tank Database

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

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

9

ID	Distance (m)	Direction	Use	Date
41F	388	W	Tanks	1996
42F	389	W	Tanks	1974
43F	390	W	Tanks	1990
44F	390	W	Tanks	1984
45F	390	W	Tanks	1986
46F	390	W	Tanks	1990
47I	445	SE	Unspecified Tank	1987
48I	445	SE	Unspecified Tank	1989
49I	446	SE	Unspecified Tank	1993

1.3 Additional Information – Historical Energy Features Database

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

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

19

ID	Distance (m)	Direction	Use	Date
50J	104	S	Electricity Substation	1983
51J	105	SW	Electricity Substation	1980
52J	105	SW	Electricity Substation	1990
53AB	122	SW	Electricity Substation	1990
54K	229	W	Electricity Substation	1959
55K	229	W	Electricity Substation	1984
56K	229	W	Electricity Substation	1990
57L	282	W	Electricity Substation	1984
58L	282	W	Electricity Substation	1990

59M	327	SW	Electricity Substation	1983
60M	328	SW	Electricity Substation	1990
61M	328	SW	Electricity Substation	1980
62N	369	W	Electricity Substation	1984
63N	369	W	Electricity Substation	1990
64N	369	W	Electricity Substation	1986
65O	466	SW	Electricity Substation	1969
66O	466	SW	Electricity Substation	1983
67O	468	SW	Electricity Substation	1990
68O	468	SW	Electricity Substation	1980

1.4 Additional Information – Historical Petrol and Fuel Site Database

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

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

Database searched and no data found.

1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

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

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 16

ID	Distance (m)	Direction	Use	Date
69P	7	SW	Garage	1961
70P	7	SW	Garage	1974
71P	9	SW	Garage	1990
72P	9	SW	Garage	1959
73P	9	SW	Garage	1984
74Q	320	SW	Vehicle Storage Depot	1990
75Q	320	SW	Vehicle Storage Depot	1959
76Q	320	SW	Vehicle Storage Depot	1984
77	328	SW	Vehicle Storage Depot	1974
78R	487	SW	Vehicle Testing Centre	1996
79S	493	E	Garage	1987
80T	494	SW	Vehicle Testing Centre	1974
81T	496	SW	Vehicle Testing Centre	1990
82T	496	SW	Vehicle Testing Centre	1990
83T	496	SW	Vehicle Testing Centre	1986
84T	496	SW	Vehicle Testing Centre	1984

1.6 Potentially Infilled Land

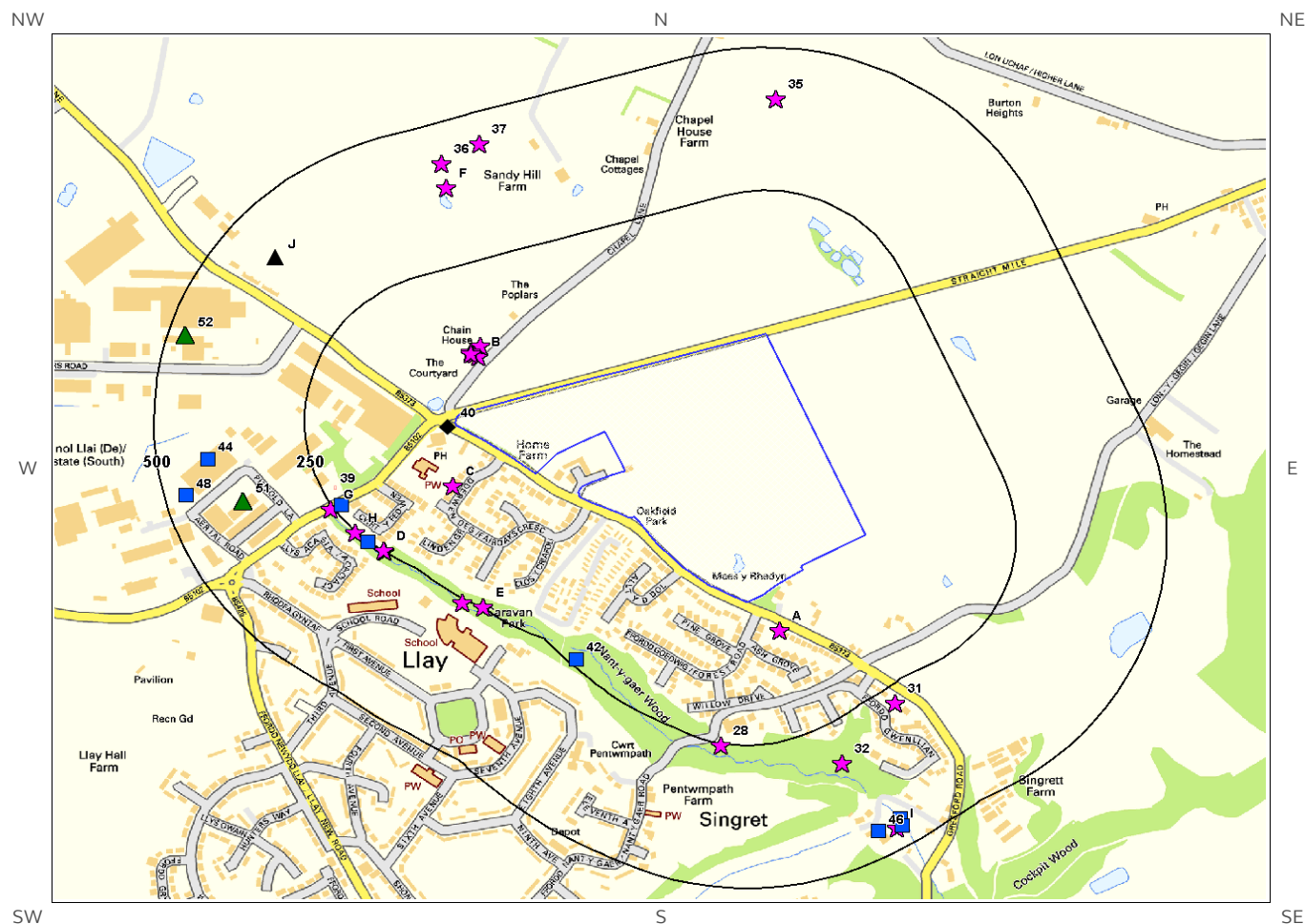
Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 60

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

ID	Distance(m)	Direction	Use	Date
85U	0	On Site	Pond	1968
86U	0	On Site	Pond	1960
87U	0	On Site	Pond	1900
88U	0	On Site	Ponds	1872
89	7	SW	Pond	1872
90V	13	SW	Ponds	1900
91V	13	SW	Ponds	1872
92V	14	SW	Ponds	1949
93W	26	SW	Pond	1960
94W	26	SW	Pond	1968
95X	30	NW	Pond	1968
96X	30	NW	Pond	1979
97X	30	NW	Pond	1992
98X	30	NW	Pond	1960
99Y	51	W	Refuse Heap	1949
100A	51	W	Colliery	1949
101B	58	SE	Sand Pit	1938
102B	59	SE	Sand Pit	1949
103B	61	SE	Sand Pit	1909
104B	61	SE	Sand Pit	1900
105Z	70	W	Unspecified Heap	1979
106AA	84	SE	Unspecified Pit	1872
107AB	90	S	Ponds	1938
108AB	91	S	Ponds	1900
109AB	91	S	Ponds	1872
110AB	91	S	Ponds	1949
111C	93	W	Unspecified Mine	1960
112C	93	W	Unspecified Mine	1968
113AC	170	NE	Ponds	1938
114AC	170	NE	Ponds	1909
115AC	171	NE	Ponds	1992
116AC	171	NE	Ponds	1960
117AC	171	NE	Ponds	1979
118AC	171	NE	Ponds	1968
119AC	172	NE	Ponds	1949
120AC	173	NE	Water Body	1900
121AC	173	NE	Ponds	1872
122	203	SE	Ponds	1872

123D	211	S	Gravel Pit	1938
124D	214	S	Gravel Pit	1949
125D	214	S	Gravel Pit	1909
126E	215	NW	Colliery	1938
127E	215	NW	Colliery	1938
128AD	260	NE	Pond	1872
129AD	275	NE	Pond	1992
130AD	275	NE	Pond	1960
131AD	275	NE	Pond	1979
132AD	275	NE	Pond	1968
133AE	323	N	Ponds	1900
134AE	323	N	Ponds	1949
135AE	323	N	Pond	1979
136AE	323	N	Pond	1968
137AE	323	N	Pond	1960
138AF	355	E	Sand and Gravel Pit	1979
139	446	E	Pond	1992
140AG	466	W	Unspecified Disused Tip	1979
141AG	470	W	Refuse Heap	1968
142AG	470	W	Refuse Heap	1960
143AH	480	E	Disused Sand and Gravel Pit	1992
144H	480	W	Refuse Heap	1949

2. Environmental Permits, Incidents and Registers Map



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

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

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

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

2

The following IPC Authorisations are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
53J	409	NW	333000 356600	Operator: Magellan Aerospace Corporation Ltd Address: Rackery Lane, Llay, Wrexham, Clwyd, LL12 0PB Process: Inorganic Chemical Processes	Permit Number: BD0150 Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked - Now Ippc
54J	409	NW	333000 356600	Operator: Magellan Aerospace Corporation Ltd Address: Rackery Lane, Llay, Wrexham, Clwyd, LL12 0PB Process: Inorganic Chemical Processes	Permit Number: AO6880 Original Permit Number: IPCAPP Date Approved: 21-4-1995 Effective Date: 25-4-1995 Status: Superseded By Variation

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

1

The following List 1 Dangerous Substance Inventory Site records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details
40	15	W	333287 356306	Name: Trefn Engineering Ltd, Unit 7, Llay Ind.est, Rackery Lane, L Status: Not Active Receiving Water: - Authorised Substances: Cadmium

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

0

Database searched and no data found.

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

2

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details
51	380	W	332948 356173	Address: Star Counties Textile Services Ltd, Unit 4, Aerial Road, Llay Industrial Estate, Llay, Wrexham, LL12 0TU Process: Dry Cleaning Status: Current Permit Permit Type: Part B Enforcement: No Enforcement Notified. Date of Enforcement: No Enforcement Notified. Comment: No Enforcement Notified.
52	472	W	332851 356464	Address: Cymru Country Feeds Ltd, Miners Road, Llay, Wrexham, Llay, LL12 0PJ Process: Animal Vegetable and Food Status: Historical Permit Permit Type: Part B Enforcement: Enforcement Notified Date of Enforcement: 14/02/2002 Comment: Animal feed compounding process

2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

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

8

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

ID	Distance (m)	Direction	NGR	Details
41G	238	SW	333110 356170	Address: CHAPEL LANE OPPOSITE GARDEN CENTRE, CHAPEL LANE OPPOSITE GARDEN CENT, OPPOSITE GARDEN CENTRE LLAY ,, LLAY ,, LLAY ,, , , Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CG0358401 Permit Version: 1 Receiving Water: AFON ALYN TRIBUTARY Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 21/07/1994 Effective Date: 21-Jul-1994 Revocation Date: -
42	239	SW	333500 355900	Address: LLAY GRESFORD ROAD, LLAY GRESFORD ROAD, GRESFORD ROAD, UNKNOWN, UNKNOWN, UNKNOWN Effluent Type: UNSPECIFIED Permit Number: CM0065001 Permit Version: 1 Receiving Water: SINGRET BROOK Status: CONSENT EXPIRED - TIME LIMIT Issue date: 24/05/1971 Effective Date: 24-May-1971 Revocation Date: 23/02/1995
43H	251	SW	333155 356106	Address: PUMPING STATION ON DEVELOPMENT LAND, OFF LLAY ROAD, WREXHAM, WALES, UNITED KINGDOM, LL12 0TX Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - NOT WATER COMPANY Permit Number: CG0413901 Permit Version: 1 Receiving Water: SINGRET BROOK Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 22/01/2004 Effective Date: 22-Jan-2004 Revocation Date: -
44	415	W	332890 356250	Address: LLAY IND ESTATE, LLAY IND ESTATE, UNKNOWN, UNKNOWN, UNKNOWN, UNKNOWN Effluent Type: UNSPECIFIED Permit Number: CM0060002 Permit Version: 1 Receiving Water: SINGRET BROOK Status: CONSENT EXPIRED - TIME LIMIT Issue date: 14/10/1969 Effective Date: 14-Oct-1969 Revocation Date: 06/02/1995
45I	452	SE	334036 355622	Address: LLAY SINGRET (BOREEN CAM) CSO, SINGRET HILL, LLAY, WREXHAM, LL12 ONS Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: CM0197701 Permit Version: 2 Receiving Water: SINGRET BROOK Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 25/11/2004 Effective Date: 31-Mar-2005 Revocation Date: -
46	454	SE	334000 355600	Address: LLAY SINGRET BOREEN CAM- SSO, LLAY SINGRET BOREEN CAM- SSO, UNKNOWN, UNKNOWN, UNKNOWN, UNKNOWN Effluent Type: UNSPECIFIED Permit Number: CM0197701 Permit Version: 1 Receiving Water: SINGRET BROOK Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88) Issue date: 20/10/1989 Effective Date: 20-Oct-1989 Revocation Date: 30/03/2005

ID	Distance (m)	Direction	NGR	Details	
471	464	SE	334040 355610	Address: LLAY SINGRET SEWERAGE SYSTEM (S'CED, LLAY SINGRET SEWERAGE SYSTEM (S'CED, UNKNOWN, UNKNOWN, UNKNOWN Effluent Type: UNSPECIFIED Permit Number: CM0058601 Permit Version: 1	Receiving Water: SINGRET BROOK Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 16/09/1969 Effective Date: 16-Sep-1969 Revocation Date: 17/02/1986
48	465	W	332853 356187	Address: MARSHALLS MONO PLC LLAY WORKS, MARSHALLS MONO PLC, LLAY WORKS, LLAY INDUSTRIAL ESTATE, LLAY WREXHAM, LL12 0TL Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CG0401501 Permit Version: 1	Receiving Water: TO GROUND Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 10/01/2003 Effective Date: 10-Jan-2003 Revocation Date: 22/06/2009

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

0

Database searched and no data found.

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

0

Database searched and no data found.

2.2 Dangerous or Hazardous Sites

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

0

Database searched and no data found.

2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

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

38

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

ID	Distance (m)	Direction	NGR	Details
1A	67	SE	333836 355951	Incident Date: 19-May-2001 Incident Identification: 5973 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
2A	67	SE	333836 355951	Incident Date: 19-May-2001 Incident Identification: 5973 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
3B	89	N	333336 356430	Incident Date: 16-Dec-2001 Incident Identification: 48422 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
4B	89	N	333336 356430	Incident Date: 16-Dec-2001 Incident Identification: 48422 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
5C	95	SW	333294 356204	Incident Date: 11-May-2001 Incident Identification: 5234 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Sulphide Odour Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
6C	95	SW	333294 356204	Incident Date: 11-May-2001 Incident Identification: 5234 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Sulphide Odour Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
7B	95	N	333331 356435	Incident Date: 15-Dec-2001 Incident Identification: 48308 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
8B	97	N	333324 356435	Incident Date: 01-Mar-2002 Incident Identification: 61231 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
9B	97	N	333324 356435	Incident Date: 01-Mar-2002 Incident Identification: 61231 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)

ID	Distance (m)	Direction	NGR	Details	
10B	97	N	333324 356435	Incident Date: 10-Aug-2001 Incident Identification: 23432 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
11B	97	N	333324 356435	Incident Date: 04-Apr-2002 Incident Identification: 68864 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
12B	97	N	333324 356435	Incident Date: 25-Dec-2001 Incident Identification: 49539 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
13B	100	N	333324 356438	Incident Date: 15-Dec-2001 Incident Identification: 48307 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
14B	106	N	333340 356449	Incident Date: 16-Dec-2001 Incident Identification: 48423 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
15B	106	N	333340 356449	Incident Date: 16-Dec-2001 Incident Identification: 48423 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
16B	106	N	333339 356449	Incident Date: 06-Jul-2001 Incident Identification: 14519 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
17B	106	N	333339 356449	Incident Date: 09-May-2001 Incident Identification: 4903 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Sulphide Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
18B	106	N	333339 356449	Incident Date: 31-Aug-2001 Incident Identification: 28237 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
19B	106	N	333339 356449	Incident Date: 26-Jul-2001 Incident Identification: 19467 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
20B	106	N	333339 356449	Incident Date: 06-Jul-2001 Incident Identification: 14519 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
21B	106	N	333339 356449	Incident Date: 06-Aug-2001 Incident Identification: 22099 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)

ID	Distance (m)	Direction	NGR	Details	
22B	106	N	333339 356449	Incident Date: 13-Dec-2001 Incident Identification: 47986 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
23E	249	S	333344 355992	Incident Date: 06-Feb-2005 Incident Identification: 291717 Pollutant: Oils and Fuel Pollutant Description: Cutting Oils	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
24D	250	SW	333180 356091	Incident Date: 30-Apr-2001 Incident Identification: 3861 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
25D	251	SW	333182 356089	Incident Date: 27-Dec-2001 Incident Identification: 49674 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
26D	251	SW	333182 356089	Incident Date: 27-Dec-2001 Incident Identification: 49674 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
27H	253	SW	333133 356122	Incident Date: 14-Apr-2003 Incident Identification: 150789 Pollutant: Organic Chemicals/Products Pollutant Description: Other Organic Chemical or Product	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
28	254	S	333739 355750	Incident Date: 05-Aug-2009 Incident Identification: 704123 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
29E	256	SW	333310 356000	Incident Date: 20-May-2002 Incident Identification: 80015 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
30G	257	SW	333092 356162	Incident Date: 03-Feb-2005 Incident Identification: 291092 Pollutant: Oils and Fuel Pollutant Description: Cutting Oils	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
31	279	SE	334027 355823	Incident Date: 15-Dec-2001 Incident Identification: 48343 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
32	321	SE	333940 355719	Incident Date: 27-Oct-2009 Incident Identification: 727899 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
33F	387	N	333283 356725	Incident Date: 04-Sep-2001 Incident Identification: 28772 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
34F	387	N	333283 356725	Incident Date: 04-Sep-2001 Incident Identification: 28772 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
35	410	N	333830 356880	Incident Date: 26-Jul-2002 Incident Identification: 94566 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Distance (m)	Direction	NGR	Details	
36	430	N	333275 356767	Incident Date: 23-Apr-2001 Incident Identification: 3187 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Sulphide Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
37	446	N	333338 356802	Incident Date: 23-Apr-2001 Incident Identification: 3189 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Sulphide Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
38I	463	SE	334030 355606	Incident Date: 14-Aug-2003 Incident Identification: 182014 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

1

The following NIRS List 1 records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance (m)	Direction	NGR	Details	
39	230	SW		Incident Date: 01-Sep-1999 Incident Identification: 4813.0 Catchments Name: SINGRET BROOK Water Description: RIVER STRETCH (FRESHWATER) Water Course: SINGRET BROOK Incident Substantiated: Yes	Priority Description: Immediate (2 Hours) Waste Description: Not Available Water Impact: Significant Impact Land Impact: No Impact Air Impact: No Impact Action Taken: Not Available

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

How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site?

0

Database searched and no data found.

- 26

3. Landfill and Other Waste Sites

3.1 Landfill Sites

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

1

The following Environment Agency/Natural Resources Wales landfill records are represented as polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details
1	376	N	332747 356798	Address: Astbury Landfill, Dark Lane, Burton, Wrexham, Clwyd, LL12 0AE Landfill Reference: 37116.0 Environmental Permitting Regulations (Waste) Reference: CAI002 Landfill Type: A4 : Household, Commercial & Industrial Waste Landfill Operator: W R G Environmental Ltd Status: Modified IPPC Reference: EPR Reference:

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

6

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details
2	197	SE	334300 355900	Site Address: Singret Quarry, Gresford Road, Llay, Wrexham Waste Licence: Yes Site Reference: WMBC L63, NOW-514-L Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: WW1/L/BOD001 Licence Issue: 31-Dec-1983 Licence Surrendered: 18-Dec-2003 Licence Holder Address: - Operator: Bodfari (quarries) Licence Holder: Tarmac First Recorded: 31-Dec-1976 Last Recorded: 30-Jun-1998
Not shown	625	N	333100 357100	Site Address: Astbury Quarry, Dark Lane, Llay, Wrexham Waste Licence: Yes Site Reference: WMBC L/13, NOW-510-L, 6955/0062 Waste Type: Inert, Industrial, Commercial, Household, Special Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 31-Dec-1983 Licence Surrendered: 31-Dec-1987 Licence Holder Address: - Operator: - Licence Holder: Shanks First Recorded: 31-Dec-1983 Last Recorded: 31-Dec-1987

ID	Distance (m)	Direction	NGR	Details	
4	733	NE	335000 356300	Site Address: Ballswood Quarry, Rossett, Wrexham, Clwyd Waste Licence: Yes Site Reference: WMBC L/47 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 19-Jul-1977 Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: RMC Limited First Recorded: 31-Dec-1977 Last Recorded: 31-Dec-1985
Not shown	747	NW	333100 357100	Site Address: Astbury Quarry, Dark Lane, Llay, Wrexham Waste Licence: Yes Site Reference: WMBC L/13, NOW-510-L, 6955/0062 Waste Type: Inert, Industrial, Commercial, Household, Special Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 31-Dec-1983 Licence Surrendered: 31-Dec-1987 Licence Holder Address: - Operator: - Licence Holder: Shanks First Recorded: 31-Dec-1983 Last Recorded: 31-Dec-1987
Not shown	808	E	335000 356300	Site Address: Ballswood Quarry, Rossett, Wrexham, Clwyd Waste Licence: Yes Site Reference: WMBC L/47 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 19-Jul-1977 Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: RMC Limited First Recorded: 31-Dec-1977 Last Recorded: 31-Dec-1985
Not shown	1236	E	335000 356300	Site Address: Ballswood Quarry, Rossett, Wrexham, Clwyd Waste Licence: Yes Site Reference: WMBC L/47 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: -	Licence Issue: 19-Jul-1977 Licence Surrendered: Licence Holder Address: - Operator: - Licence Holder: RMC Limited First Recorded: 31-Dec-1977 Last Recorded: 31-Dec-1985

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

0

Database searched and no data found.

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

1

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Site Address	Source	Data Type
43	700	NW	332985 356978	Refuse Tip	1996 mapping	Polygon

3.2 Other Waste Sites

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

0

Database searched and no data found.

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

35

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

ID	Distance (m)	Direction	NGR	Details
8A	537	E	334509 356207	Site Address: Gresford Road, Llay, Wrexham, Clwyd, LL12 0NU Type: Landfill taking other wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BOD001 EPR reference: LP3594FP/S002 Operator: Bodfari (quarries) Limited Waste Management licence No: 37032 Annual Tonnage: 150000.0 Issue Date: 25/05/1992 Effective Date: - Modified: - Surrendered Date: 18/12/2003 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Singret Quarry Correspondence Address: -
9A	537	E	334509 356207	Site Address: Gresford Road, Llay, Wrexham, LL12 0NU Type: Landfill taking other wastes Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BOD001 EPR reference: - Operator: Bodfari (quarries) Limited Waste Management licence No: 37032 Annual Tonnage: 0.0 Issue Date: 25/05/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure Site Name: Singret Quarry Correspondence Address: Tunstead House, P O Box 25, Buxton, Derbyshire, SK17 8TG
10A	537	E	334509 356207	Site Address: Gresford Road, Llay, Wrexham, Clwyd, LL12 0NU Type: Landfill taking other wastes Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BOD001 EPR reference: EA/EPR/LP3594FP/S002 Operator: Bodfari (quarries) Limited Waste Management licence No: 37032 Annual Tonnage: 150000.0 Issue Date: 25/05/1992 Effective Date: - Modified: - Surrendered Date: 18/12/2003 Expiry Date: - Cancelled Date: - Status: Surrendered Site Name: Singret Quarry Correspondence Address: -
11B	652	E	334620 356235	Site Address: Ballswood Quarry, Gergin Lane, Llay, Nr Wrexham, LL12 0NU Type: Physical Treatment Facility Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DPW005 EPR reference: EA/EPR/JB3237WU/A001 Operator: D P Williams Holdings Limited Waste Management licence No: 104698 Annual Tonnage: 74999.0 Issue Date: 08/01/2013 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Ballswood Quarry Correspondence Address: -

ID	Distance (m)	Direction	NGR	Details
12B	652	E	334620 356235	Site Address: Inertia Recycling Limited, Ballswood Quarry, Gergin Lane, Nr Wrexham, LL12 0NU Type: Physical Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: JB3237WU EPR reference: - Operator: Inertia Recycling Limited Waste Management licence No: 104698 Annual Tonnage: 74999.0 Issue Date: 05/11/2015 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: Ballswood Quarry Correspondence Address: -
13B	652	E	334620 356235	Site Address: Ballswood Quarry, Gergin Lane, Llay, Nr Wrexham, Wrexham, LL12 0NU Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: JB3237WU EPR reference: - Operator: Inertia Recycling Limited Waste Management licence No: 0 Annual Tonnage: 74999.0 Issue Date: 05/11/2015 Effective Date: 05/11/2015 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -
14B	652	E	334620 356235	Site Address: Ballswood Quarry, Gergin Lane, Llay, Nr Wrexham, LL12 0NU Type: Physical Treatment Facility Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: DPW005 EPR reference: JB3237WU/A001 Operator: D P Williams Holdings Limited Waste Management licence No: 104698 Annual Tonnage: 0.0 Issue Date: 08/01/2013 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Ballswood Quarry Correspondence Address: -
15C	727	NW	332743 356790	Site Address: Dark Lane, Burton, Rossett, Wrexham, LL12 0AE Type: Household, Commercial & Industrial Waste Landfill Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CAI002 EPR reference: - Operator: Caird Environmental Ltd Waste Management licence No: 37116 Annual Tonnage: 0.0 Issue Date: 17/08/1994 Effective Date: - Modified: 29/01/2003 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Astbury Landfill (rossett) Correspondence Address: Wrg Waste Services Ltd, Ground Floor West, 900, Pavilion Drive, Northampton Business Park, Northampton, NN4 7RG
16C	729	NW	332747 356798	Site Address: Astbury Landfill, Dark Lane, Burton, Wrexham, Clwyd, LL12 0AE Type: Household, Commercial & Industrial Waste Landfill Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CAI002 EPR reference: - Operator: Wrg Environmental Ltd Waste Management licence No: 37116 Annual Tonnage: 0.0 Issue Date: 17/08/1994 Effective Date: - Modified: 01/10/2007 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Astbury Landfill (rossett) Correspondence Address: Wrg Waste Services Ltd, Ground Floor West, 900, Pavilion Drive, Northampton Business Park, Northampton, Northants, NN4 7RG
17C	729	NW	332747 356798	Site Address: Astbury Landfill (rossett), Burton, Wrexham, Wrexham, LL12 0AE Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: FP3894FP EPR reference: - Operator: W R G Environmental Ltd Waste Management licence No: 0 Annual Tonnage: 0.0 Issue Date: 17/08/1994 Effective Date: 17/08/1994 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -

ID	Distance (m)	Direction	NGR	Details	
18C	729	NW	332747 356798	Site Address: Astbury Landfill, Dark Lane, Burton, Wrexham, Clwyd, LL12 0AE Type: Household, Commercial & Industrial Waste Landfill Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CAI002 EPR reference: EA/EPR/FP3894FP/V008 Operator: W R G Environmental Ltd Waste Management licence No: 37116 Annual Tonnage: 0.0	Issue Date: 17/08/1994 Effective Date: - Modified: 03/03/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Astbury Landfill (rossett) Correspondence Address: -
19C	729	NW	332747 356798	Site Address: Astbury Landfill, Dark Lane, Burton, Wrexham, Clwyd, LL12 0AE Type: Household, Commercial & Industrial Waste Landfill Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: CAI002 EPR reference: FP3894FP/V008 Operator: W R G Environmental Ltd Waste Management licence No: 37116 Annual Tonnage: 0.0	Issue Date: 17/08/1994 Effective Date: - Modified: 03/03/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Astbury Landfill (rossett) Correspondence Address: -
20C	734	NW	332741 356798	Site Address: Dark Lane, Burton, Rossett, Wrexham, LL12 0AE Type: Household, Commercial & Industrial Waste Landfill Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CAI002 EPR reference: - Operator: Caird Environmental Ltd Waste Management licence No: 37116 Annual Tonnage: 0.0	Issue Date: 17/08/1994 Effective Date: - Modified: 29/01/2003 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Astbury Landfill (rossett) Correspondence Address: Astbury Landfill (rossett), Dark Lane, Burton, Rossett, Wrexham, LL12 0AE
21C	734	NW	332741 356798	Site Address: Dark Lane, Burton, Rossett, Wrexham, LL12 0AE Type: Co-Disposal Landfill Site Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CAI002 EPR reference: - Operator: Caird Environmental Ltd Waste Management licence No: 37116 Annual Tonnage: 0.0	Issue Date: 17/08/1994 Effective Date: - Modified: 09/07/2002 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Astbury Quarry Correspondence Address: Deerplay, Bacup Road, Cliviger, Burnley, Lancashire, BB11 3RL
Not shown	893	W	332412 356413	Site Address: W H Chaloner & Son Ltd, Miners Road, Llay Industrial Estate, Wrexham, Clwyd, LL12 0PJ Type: Metal Recycling Site (mixed MRS's) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: CHA002 EPR reference: ZP3594FN/V008 Operator: W H Chaloner & Son Limited Waste Management licence No: 37135 Annual Tonnage: 0.0	Issue Date: 20/07/1995 Effective Date: - Modified: 23/10/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: W H Chaloner & Son Ltd Correspondence Address: -
Not shown	893	W	332412 356413	Site Address: W H Chaloner & Son Ltd, Llay Industrial Estate, Wrexham, Wrexham, LL12 0PJ Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: ZP3594FN EPR reference: - Operator: W H Chaloner & Son Limited Waste Management licence No: 0 Annual Tonnage: 24999.0	Issue Date: 20/07/1995 Effective Date: 20/07/1995 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -

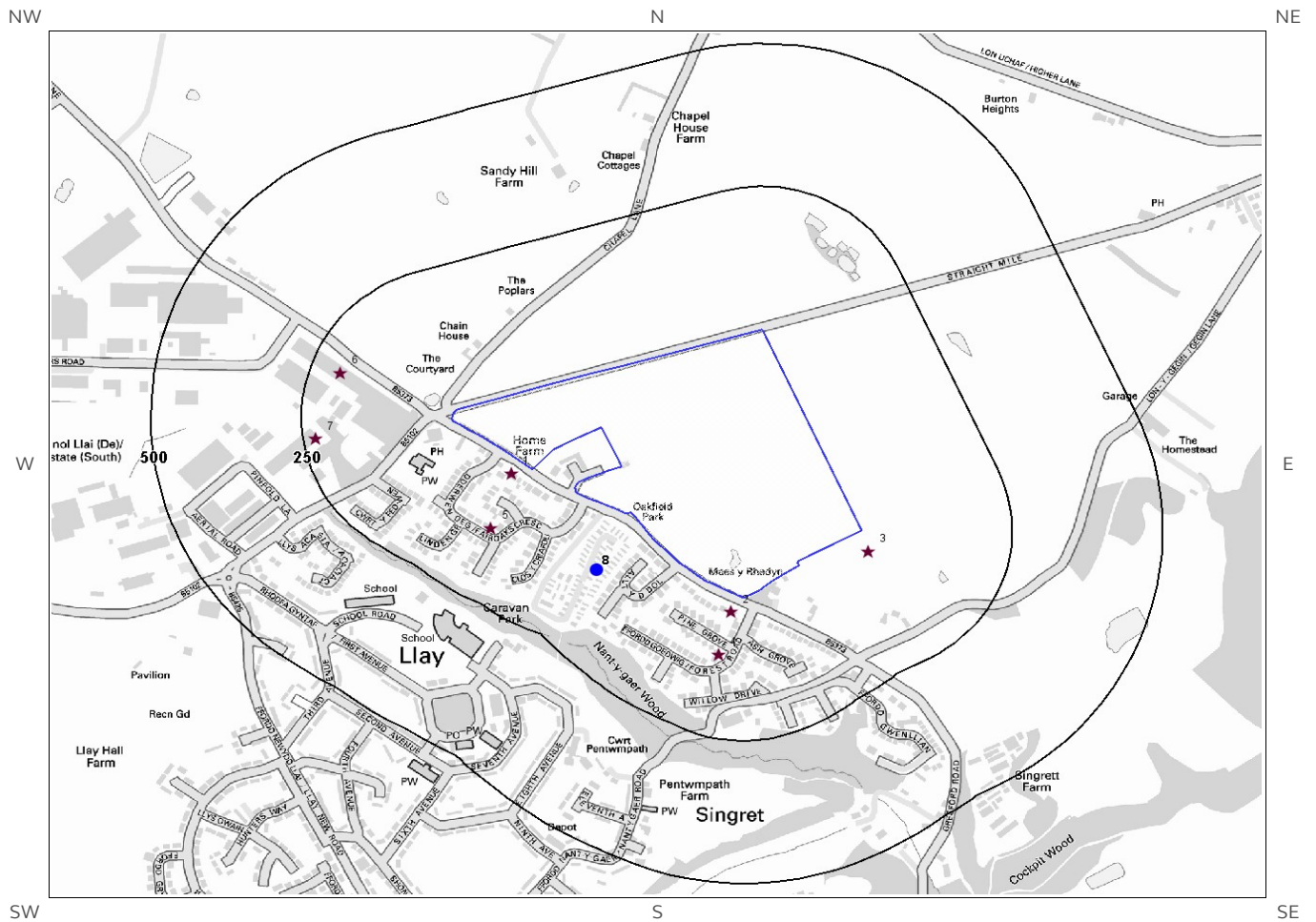
ID	Distance (m)	Direction	NGR	Details
Not shown	893	W	332412 356413	Site Address: W H Chaloner & Son Ltd, Miners Road, Llay Industrial Estate, Wrexham, Clwyd, LL12 0PJ Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CHA002 EPR reference: EA/EPR/ZP3594FN/V008 Operator: W H Chaloner & Son Limited Waste Management licence No: 37135 Annual Tonnage: 24999.0 Issue Date: 20/07/1995 Effective Date: - Modified: 23/10/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: W H Chaloner & Son Ltd Correspondence Address: -
Not shown	893	W	332412 356413	Site Address: Miners Road, Llay Industrial Estate, Llay, Wrexham, LL12 0PJ Type: Metal Recycling Site (mixed MRS's) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CHA002 EPR reference: - Operator: Chaloner W H & Son Ltd Waste Management licence No: 37135 Annual Tonnage: 0.0 Issue Date: 20/07/1995 Effective Date: - Modified: 29/11/2002 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: W H Chaloner & Sons Ltd Correspondence Address: Park House, Pulford, Chester, Cheshire, CH4 9DG
Not shown	963	N	333200 357300	Site Address: Astbury Landfill Site, Dark Lane, Rossett, Wrexham, Clwyd, LL12 0AE Type: Landfill Gas Engine (<3 mW) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRG014 EPR reference: - Operator: Wrg Environmental Ltd Waste Management licence No: 220007 Annual Tonnage: 0.0 Issue Date: 13/12/2006 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Rossett Landfill Gas Utilisation Plant Correspondence Address: -
Not shown	963	N	333200 357300	Site Address: Astbury Landfill Site, Dark Lane, Rossett, Wrexham, Clwyd, LL12 0AE Type: Landfill Gas Engine (<3 mW) Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRG014 EPR reference: - Operator: W R G Environmental Ltd Waste Management licence No: 220007 Annual Tonnage: 0.0 Issue Date: 13/12/2006 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Rossett Landfill Gas Utilisation Plant Correspondence Address: -
Not shown	963	N	333200 357300	Site Address: Rossett Landfill Gas Utilisation Plant, Astbury Landfill Site, Dark Lane, Rossett, Wrexham, LL12 0AE Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: AB3096FL EPR reference: - Operator: W R G Environmental Ltd Waste Management licence No: 0 Annual Tonnage: 0.0 Issue Date: 13/12/2006 Effective Date: 13/12/2006 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -
Not shown	963	N	333200 357300	Site Address: Astbury Landfill Site, Dark Lane, Rossett, Wrexham, Clwyd, LL12 0AE Type: Landfill Gas Engine (<3 mW) Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: WRG014 EPR reference: - Operator: W R G Environmental Ltd Waste Management licence No: 220007 Annual Tonnage: 0.0 Issue Date: 13/12/2006 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Rossett Landfill Gas Utilisation Plant Correspondence Address: -

ID	Distance (m)	Direction	NGR	Details	
Not shown	1137	W	332163 356296	Site Address: Miner's Road Depot, Llay Industrial Estate, Wrexham, Wrexham, LL12 0PJ Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: RP3994FN EPR reference: - Operator: Wrexham Borough Council Waste Management licence No: 0 Annual Tonnage: 0.0	Issue Date: 09/05/2002 Effective Date: 09/05/2002 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -
Not shown	1137	W	332163 356296	Site Address: Wrexham Construction Services, Miners Road, Llay Industrial Estate, Wrexham, Clwyd, LL12 0PJ Type: Physical Treatment Facility Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRE001 EPR reference: EA/EPR/RP3994FN/A001 Operator: Wrexham County Borough Council Waste Management licence No: 37235 Annual Tonnage: 60692.0	Issue Date: 5/9/2002 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Miner's Road Depot Correspondence Address: Ruthin Road Depot, Ruthin Road, Wrexham, Clwyd, LL13 7TU
Not shown	1137	W	332163 356296	Site Address: Wrexham Construction Services, Miners Road, Llay Industrial Estate, Wrexham, Clwyd, LL12 0PJ Type: Physical Treatment Facility Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRE001 EPR reference: RP3994FN/A001 Operator: Wrexham Borough Council Waste Management licence No: 37235 Annual Tonnage: 60692.0	Issue Date: 09/05/2002 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Miner's Road Depot Correspondence Address: -
Not shown	1150	W	332152 356241	Site Address: Unit 2, Miners Road, Llay Industrial Park, Llay, Wrexham, LL12 0PJ Type: Inert & excavation Waste TS + treatment Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ROA010 EPR reference: EA/EPR/NB3293HV/A001 Operator: Roadway Civil Engineering & Surfacing Ltd Waste Management licence No: 900110 Annual Tonnage: 75000.0	Issue Date: 12/12/2014 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Llay Depot Correspondence Address: -
Not shown	1150	W	332152 356241	Site Address: Llay Depot, Llay Industrial Park, Llay, Wrexham, LL12 0PJ Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: NB3293HV EPR reference: - Operator: Roadway Civil Engineering & Surfacing Ltd Waste Management licence No: 0 Annual Tonnage: 75000.0	Issue Date: 12/12/2014 Effective Date: 12/12/2014 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -

ID	Distance (m)	Direction	NGR	Details
Not shown	1150	W	332152 356241	Site Address: Unit 2, Miners Road, Llay Industrial Park, Llay, Wrexham, LL12 0PJ Type: Inert & excavation Waste TS + treatment Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ROA010 EPR reference: NB3293HV/A001 Operator: Roadway Civil Engineering & Surfacing Ltd Waste Management licence No: 900110 Annual Tonnage: 75000.0 Issue Date: 12/12/2014 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Llay Depot Correspondence Address: -
Not shown	1159	W	332141 356302	Site Address: Miners Road, Llay Industrial Estate, Llay, Wrexham Type: Physical Treatment Facility Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRE001 EPR reference: - Operator: Wrexham County Borough Council Waste Management licence No: 37235 Annual Tonnage: 0.0 Issue Date: 09/05/2002 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Wrexham Construction Services / Llay Correspondence Address: Ruthin Road Depot, Ruthin Road, Wrexham, Wrexham, LL13 7TU
Not shown	1265	W	332035 356286	Site Address: P P S Skip Hire, Llay Industrial Estate, Wrexham, Wrexham, LL12 0PJ Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: RP3894FC EPR reference: - Operator: David Alan Darby Waste Management licence No: 0 Annual Tonnage: 0.0 Issue Date: 04/09/2003 Effective Date: 04/09/2003 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: - Correspondence Address: -
Not shown	1265	W	332035 356286	Site Address: 12, Miners Road, Llay Industrial Estate, Wrexham, Clwyd, LL12 0PJ Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DAR003 EPR reference: RP3894FC/A001 Operator: Darby David Alan Waste Management licence No: 37239 Annual Tonnage: 9460.0 Issue Date: 04/09/2003 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: P P S Skip Hire Correspondence Address: -
Not shown	1265	W	332035 356286	Site Address: 12, Miners Road, Llay Industrial Estate, Wrexham, Clwyd, LL12 0PJ Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DAR003 EPR reference: EA/EPR/RP3894FC/A001 Operator: Darby David Alan Waste Management licence No: 37239 Annual Tonnage: 9460.0 Issue Date: 04/09/2003 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired Site Name: P P S Skip Hire Correspondence Address: -

ID	Distance (m)	Direction	NGR	Details	
Not shown	1292	SW	333219 354838	Site Address: Foregolf Golf Course & Driving Range, Llay, Wrexham, LL12 0PW Type: - Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: QP3695VB EPR reference: - Operator: Fore Golf Discount (Wrexham) Ltd Waste Management licence No: 0 Annual Tonnage: 99999.0	Issue Date: 06/01/2011 Effective Date: 06/01/2011 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Effective Site Name: - Correspondence Address: -
Not shown	1292	SW	333204 354844	Site Address: Alyn Waters Country Park, Llay, Wrexham, Clwyd, LL12 0PW Type: Use of waste in construction <100,000 tps Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FOR097 EPR reference: EA/EPR/QP3695VB/A001 Operator: Fore Golf Discount (Wrexham) Ltd Waste Management licence No: 102195 Annual Tonnage: 99999.0	Issue Date: 06/01/2011 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Foregolf Golf Course & Driving Range Correspondence Address: -
Not shown	1292	SW	333204 354844	Site Address: Alyn Waters Country Park, Llay, Wrexham, Clwyd, LL12 0PW Type: Use of waste in construction <100,000 tps Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FOR097 EPR reference: QP3695VB/A001 Operator: Fore Golf Discount (Wrexham) Ltd Waste Management licence No: 102195 Annual Tonnage: 99999.0	Issue Date: 06/01/2011 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Foregolf Golf Course & Driving Range Correspondence Address: -

4. Current Land Use Map



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Site Outline

★ Current Industrial Sites

— Electricity Transmission Cables

— 250 — Search Buffers (m)
— 500 —

● Petrol & Fuel Sites

— Gas Transmission Pipelines

4. Current Land Uses

4.1 Current Industrial Data

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

7

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

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	25	SW	Blackbrook Motors	333398 356218	Blackbrook Motors, Gresford Road, Llay, Wrexham, LL12 0NW	Vehicle Repair, Testing and Servicing	Repair and Servicing
2	30	SW	Crimeshield Intruder Alarms	333761 355976	Crimeshield Intruder Alarms, 114, Gresford Road, Llay, Wrexham, LL12 0NW	Electronic Equipment	Industrial Products
3	37	SE	Mast	333990 356082	Mast, LL12	Telecommunications Features	Infrastructure and Facilities
4	107	SW	Electricity Sub Station	333741 355902	Electricity Sub Station, LL12	Electrical Features	Infrastructure and Facilities
5	124	SW	Electricity Sub Station	333363 356123	Electricity Sub Station, LL12	Electrical Features	Infrastructure and Facilities
6	201	W	Magellan Aerospace	333113 356394	Magellan Aerospace, Rackery Lane, Llay, Wrexham, LL12 0PB	Precision Engineers	Engineering Services
7	230	W	Electricity Sub Station	333073 356279	Electricity Sub Station, LL12	Electrical Features	Infrastructure and Facilities

4.2 Petrol and Fuel Sites

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

1

The following petrol or fuel site records provided by Catalist are represented as points on the Current Land Use map:

ID	Distance (m)	Direction	NGR	Company	Address	LPG	Status
8	108	SW	333539 356049	Obsolete	Black Brook Motors, B5373, Llay, Wrexham, Clwyd, LL12 0NW	Not Applicable	Obsolete

4.3 National Grid High Voltage Underground Electricity Transmission Cables

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

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

0

Database searched and no data found.

4.4 National Grid High Pressure Gas Transmission Pipelines

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

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

0

Database searched and no data found.

5. Geology

5.1 Artificial Ground and Made Ground

Database searched and no data found.

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

5.2 Superficial Ground and Drift Geology

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

Lex Code	Description	Rock Type
GFSD	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL [UNLITHIFIED DEPOSITS CODING SCHEME]
TILLD	TILL, DEVENSIAN	DIAMICTON

5.3 Bedrock and Solid Geology

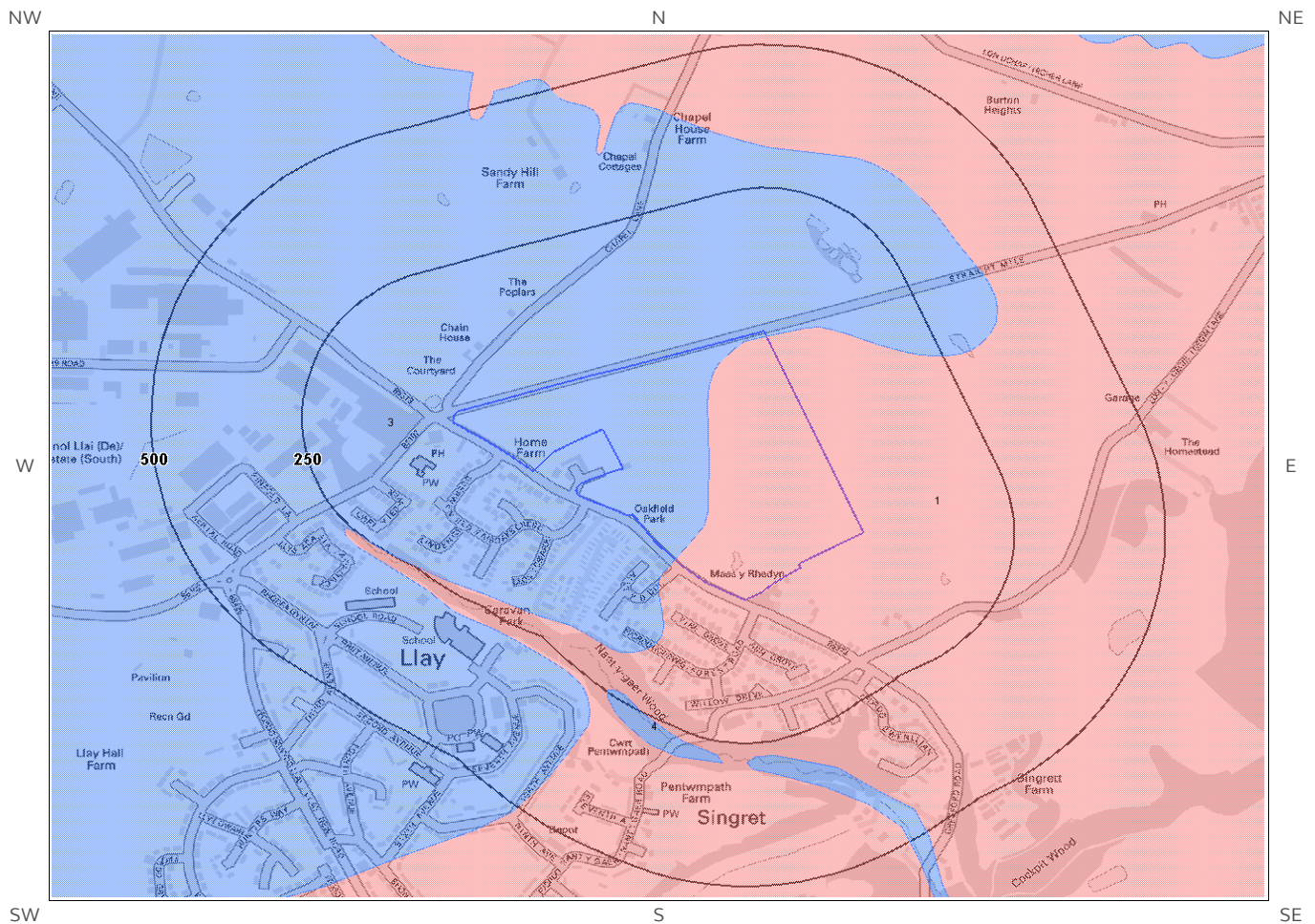
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
SAL-MDSC	SALOP FORMATION	MUDSTONE, SANDSTONE AND CONGLOMERATE

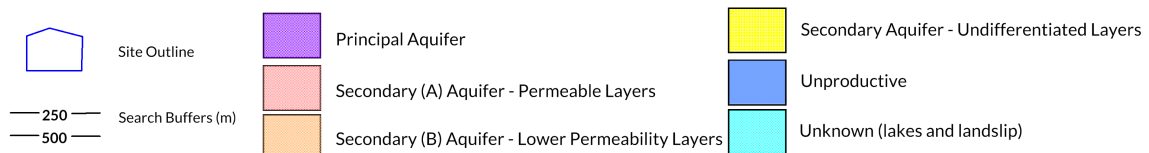
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

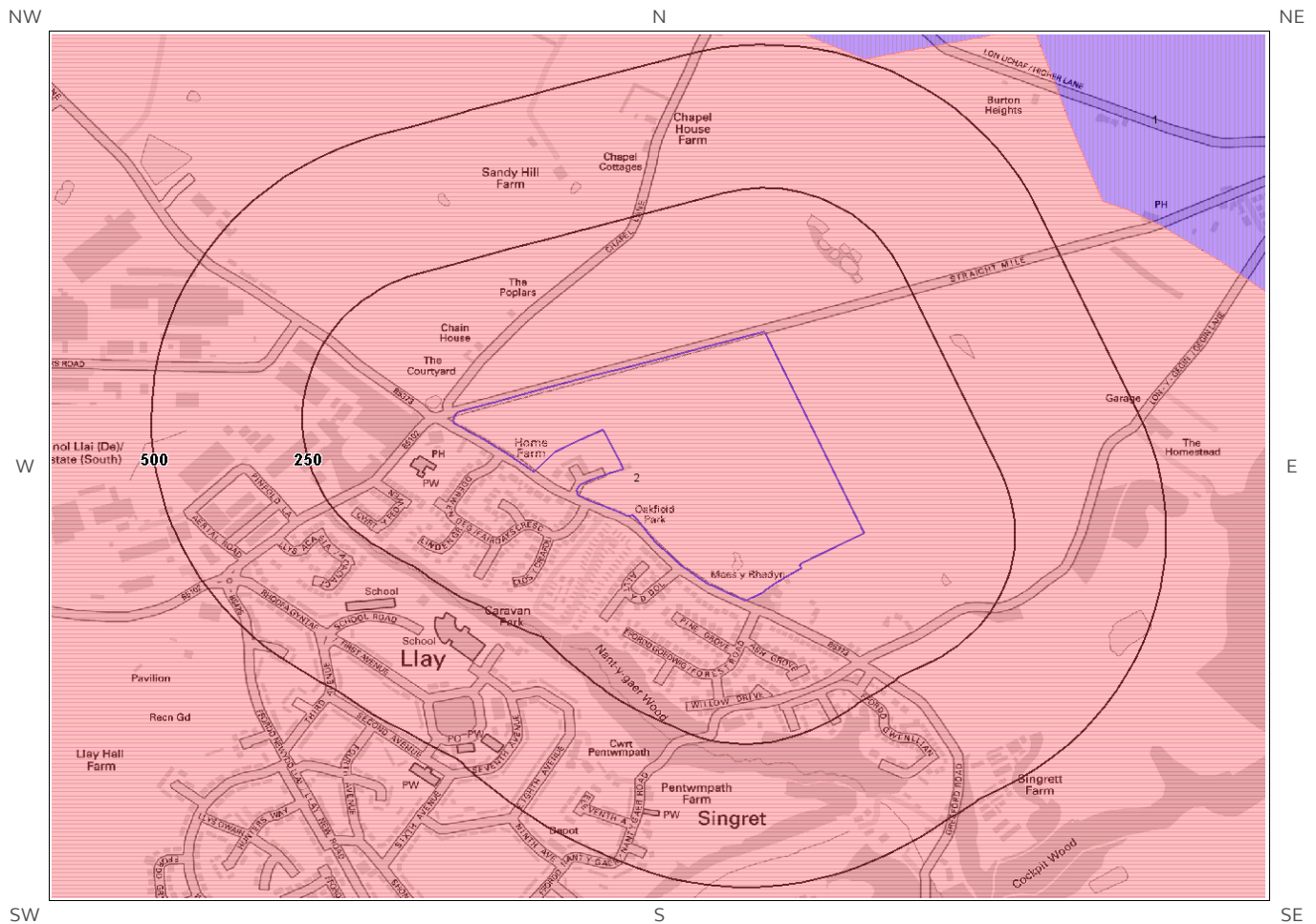
6a. Aquifer Within Superficial Geology



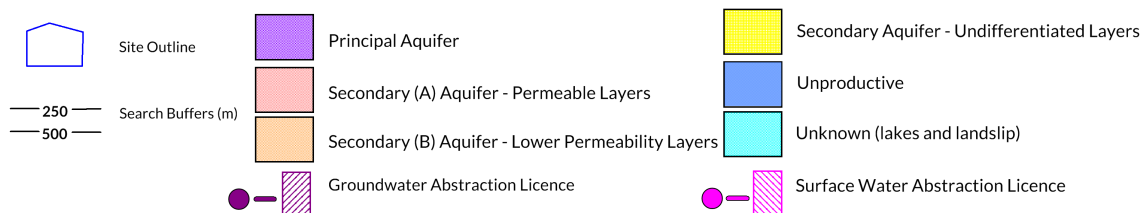
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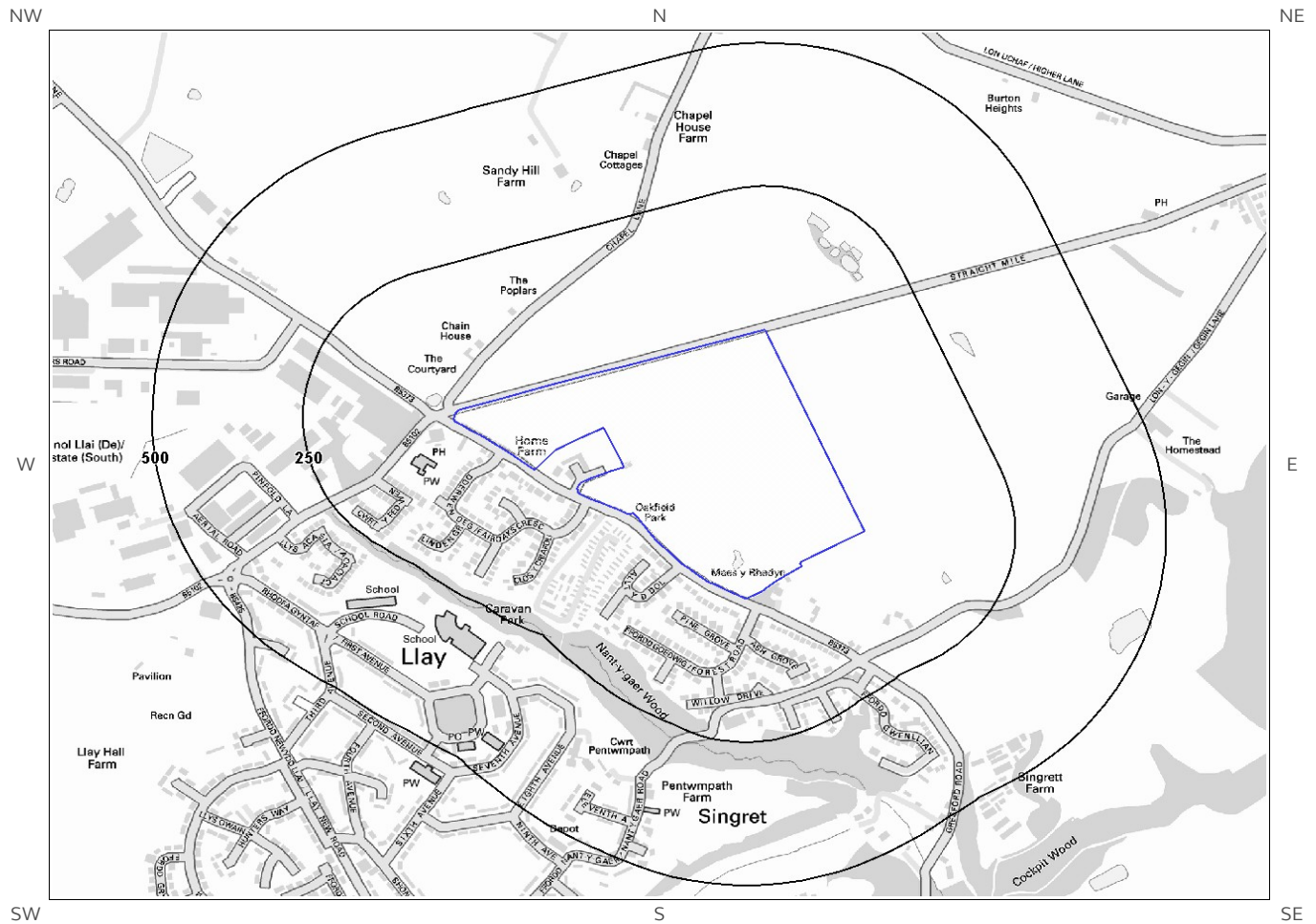
6b. Aquifer Within Bedrock Geology and Abstraction Licenses



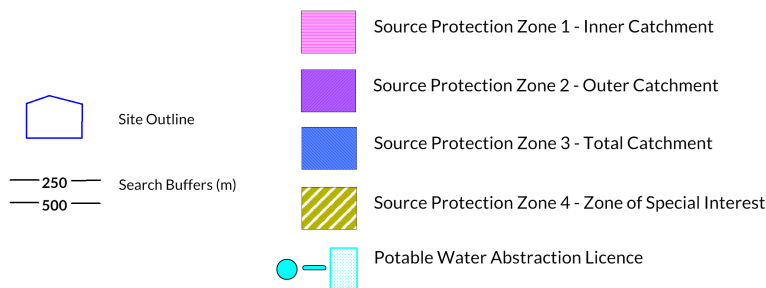
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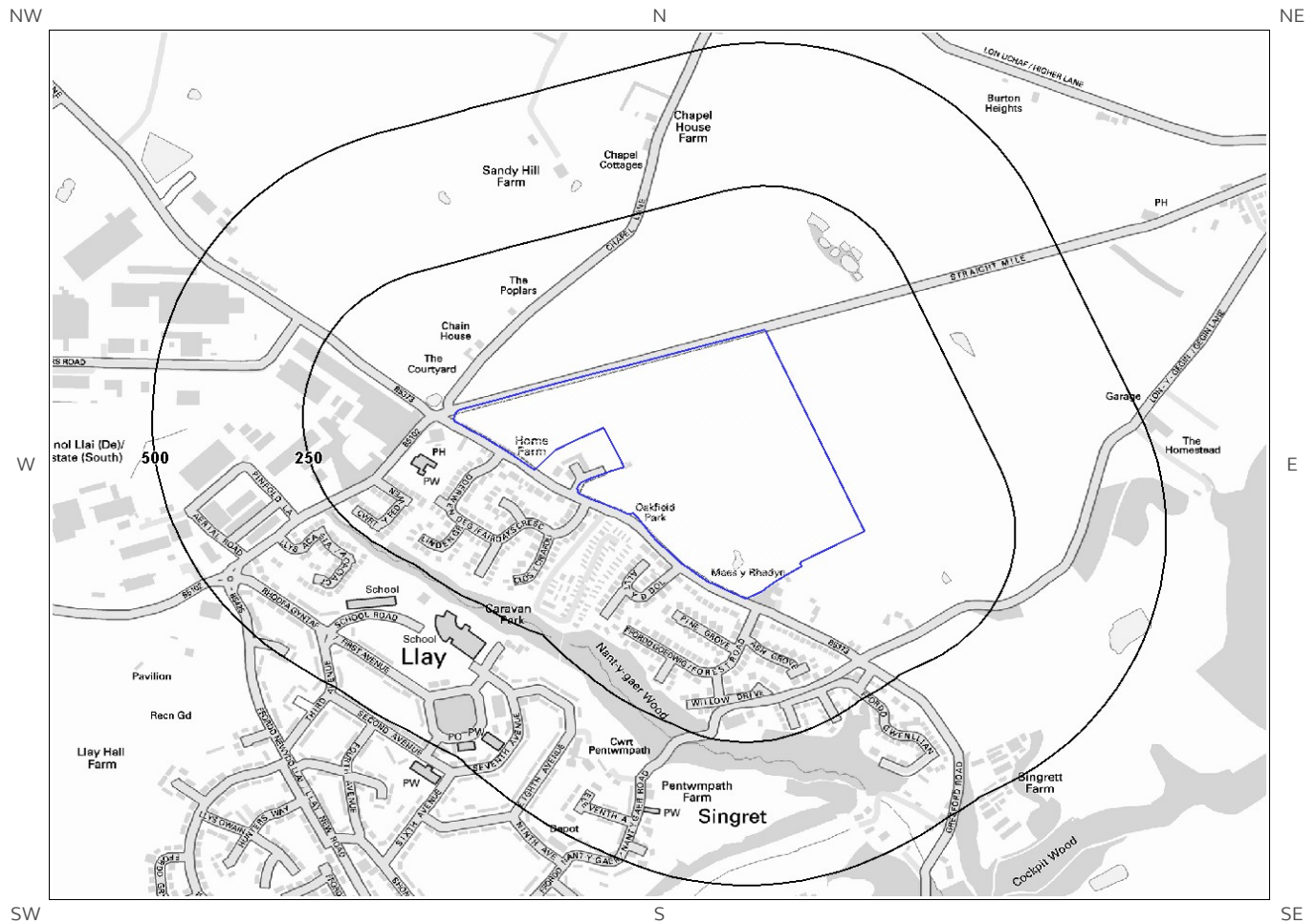
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



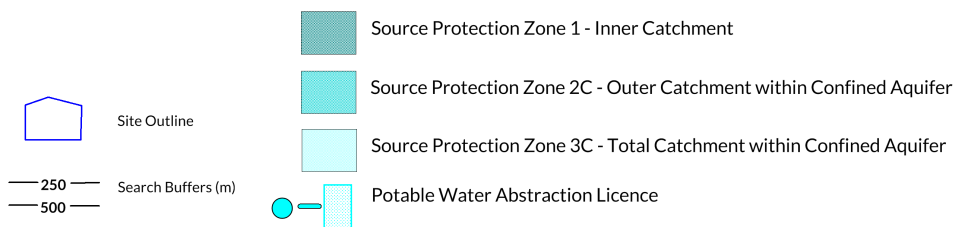
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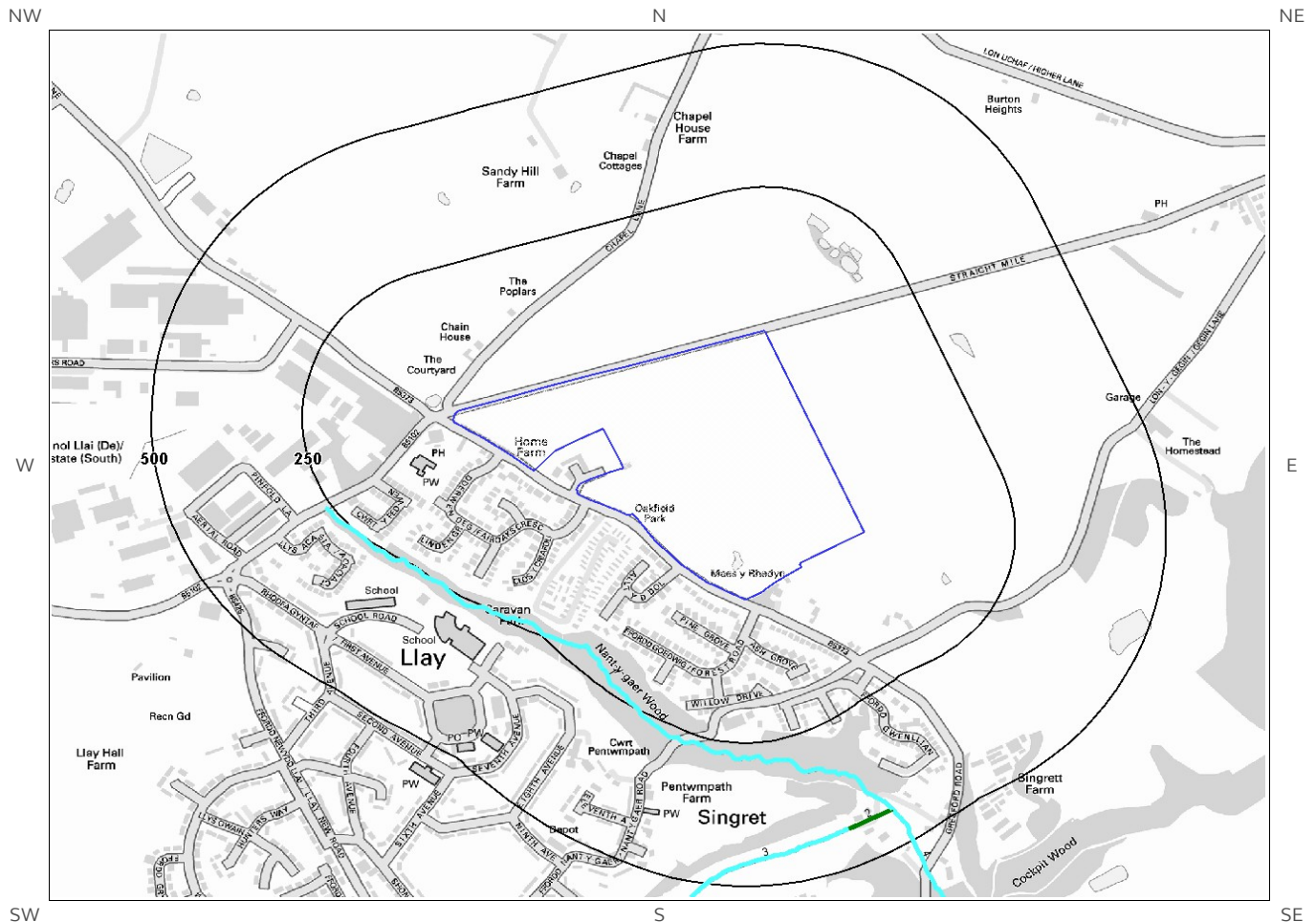
6d. Hydrogeology – Source Protection Zones within confined aquifer



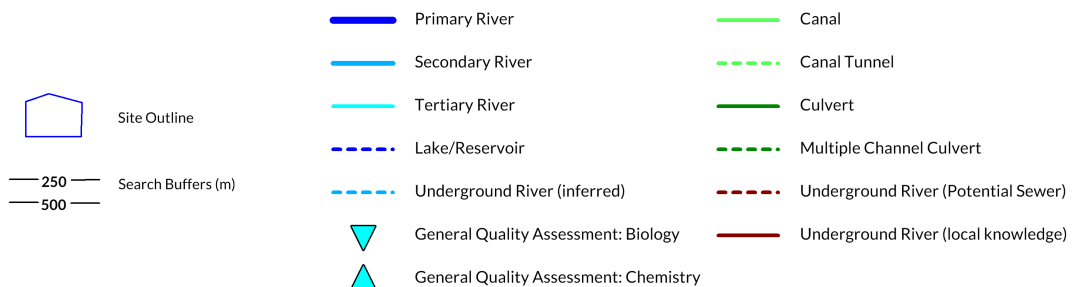
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6e. Hydrology – Detailed River Network and River Quality



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6. Hydrogeology and Hydrology

6.1 Aquifer within Superficial Deposits

Are there records of strata classification within the superficial geology at or in proximity to the property? **Yes**

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

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

ID	Distance (m)	Direction	Designation	Description
1	0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
3	0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
4	238	SW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
5	273	S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

6.2 Aquifer within Bedrock Deposits

Are there records of strata classification within the bedrock geology at or in proximity to the property? **Yes**

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

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

ID	Distance (m)	Direction	Designation	Description
2	0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

6.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 2000m of the study site?

Yes

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details
Not shown	1140	NE	334500 357380	Status: Historical Licence No: 24/67/9/0146 Details: General Farming & Domestic Direct Source: Eaw Groundwater Point: Borehole Data Type: Point Name: Lister Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: N142 Original Start Date: 7/10/1974 Expiry Date: - Issue No: 100 Version Start Date: 7/10/1974 Version End Date:
Not shown	1436	NE	334520 357720	Status: Historical Licence No: 24/67/9/0065 Details: General Farming & Domestic Direct Source: Eaw Groundwater Point: Borehole Data Type: Point Name: Walton Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 535 Original Start Date: 25/10/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/10/1966 Version End Date:

6.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site?

Yes

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

ID	Distance (m)	Direction	NGR	Details
Not shown	876	SE	334480 355400	Status: Historical Licence No: 24/67/8/0052 Details: Mineral Washing Direct Source: Eaw Surface Water Point: River Alyn Data Type: Point Name: Tarmac Limited Annual Volume (m³): 166929 Max Daily Volume (m³): 545.52 Application No: - Original Start Date: 14/6/1968 Expiry Date: - Issue No: 102 Version Start Date: 1/1/2008 Version End Date:
Not shown	1016	E	334961 356380	Status: Active Licence No: WA/067/0008/007 Details: Mineral Washing Direct Source: Eaw Surface Water Point: Lagoon At Ballswood Quarry Data Type: Point Name: DP Williams Holdings Ltd Annual Volume (m³): 3800 Max Daily Volume (m³): 138 Application No: WPCC3082 Original Start Date: 26/6/2015 Expiry Date: 31/3/2017 Issue No: 1 Version Start Date: 26/6/2015 Version End Date:
Not shown	1059	E	335000 356400	Status: Historical Licence No: 24/67/8/0108 Details: Mineral Washing Direct Source: Eaw Surface Water Point: Lagoon At Ballswood Quarry Wrexham Data Type: Point Name: DP Williams Holdings Ltd Annual Volume (m³): 3800 Max Daily Volume (m³): 138 Application No: NPS/WR/011382 Original Start Date: 30/6/2006 Expiry Date: 31/3/2015 Issue No: 2 Version Start Date: 3/10/2012 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1349	E	335530 356760	Status: Active Licence No: 24/67/8/0086 Details: Spray Irrigation - Direct Direct Source: Eaw Surface Water Point: River Alyn Data Type: Line Name: H E Jones And Son Annual Volume (m³): 6164.37 Max Daily Volume (m³): 272.76 Application No: N206 Original Start Date: 16/6/1980 Expiry Date: - Issue No: 100 Version Start Date: 1/4/2007 Version End Date:

6.5 Potable Water Abstraction Licences

Are there any Potable Water Abstraction Licences within 2000m of the study site?

No

Database searched and no data found.

6.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site?

No

Database searched and no data found.

6.7 Source Protection Zones within Confined Aquifer

Are there any Source Protection Zones within the Confined Aquifer within 500m of the study site?

No

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

Database searched and no data found.

6.8 Groundwater Vulnerability and Soil Leaching Potential

Is there any Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site? Yes

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.
0	On Site	Minor Aquifer/Low Leaching Potential	L	Soils in which pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants.
37	SW	Minor Aquifer/High Leaching Potential	H2	Deep, permeable, coarse textured soils which readily transmit a wide range of pollutants because of their rapid drainage and low attenuation potential.
436	E	Minor Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.
446	N	Major Aquifer/High Leaching Potential	H2	Deep, permeable, coarse textured soils which readily transmit a wide range of pollutants because of their rapid drainage and low attenuation potential.
446	N	Major Aquifer/Low Leaching Potential	L	Soils in which pollutants are unlikely to penetrate the soil layer because either water movement is largely horizontal, or they have the ability to attenuate diffuse pollutants.

6.9 River Quality

Is there any Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site? Yes

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

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

ID	Distance (m)	Direction	NGR	River Quality Grade	Biological Quality Grade				
					2005	2006	2007	2008	2009
Not shown	902	SE	334200 355200	River Name: Alyn / Alun Reach: Rosset Weir - Gresford Lodge End/Start of Stretch: Start of Stretch NGR	C	C	C	C	C
Not shown	902	SE	334200 355200	River Name: Alyn / Alun Reach: Gresford - Conf. Cegidog End/Start of Stretch: End of Stretch NGR	B	B	B	B	B

6.9.2 Chemical Quality:

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

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

ID	Distance (m)	Direction	NGR	River Quality Grade	Chemical Quality Grade				
					2005	2006	2007	2008	2009
Not shown	902	SE	334200 355200	River Name: Alyn Reach: Gresford - Conf. Cegidog End/Start of Stretch: End of Stretch NGR	A	A	B	B	-
Not shown	902	SE	334200 355200	River Name: Alyn Reach: Rosset Weir - Gresford Lodge End/Start of Stretch: Start of Stretch NGR	A	B	B	B	-

6.10 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site? Yes

The following Detailed River Network records are represented on the Hydrology Map (6e):

ID	Distance (m)	Direction	Details
1	211	SW	River Name: - Welsh River Name: - Alternative Name: - River Type: Tertiary River Main River Status: Currently Undefined
2	434	SE	River Name: - Welsh River Name: - Alternative Name: - River Type: Culvert Main River Status: Currently Undefined

ID	Distance (m)	Direction	Details	
3	434	SE	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
4	436	SE	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined

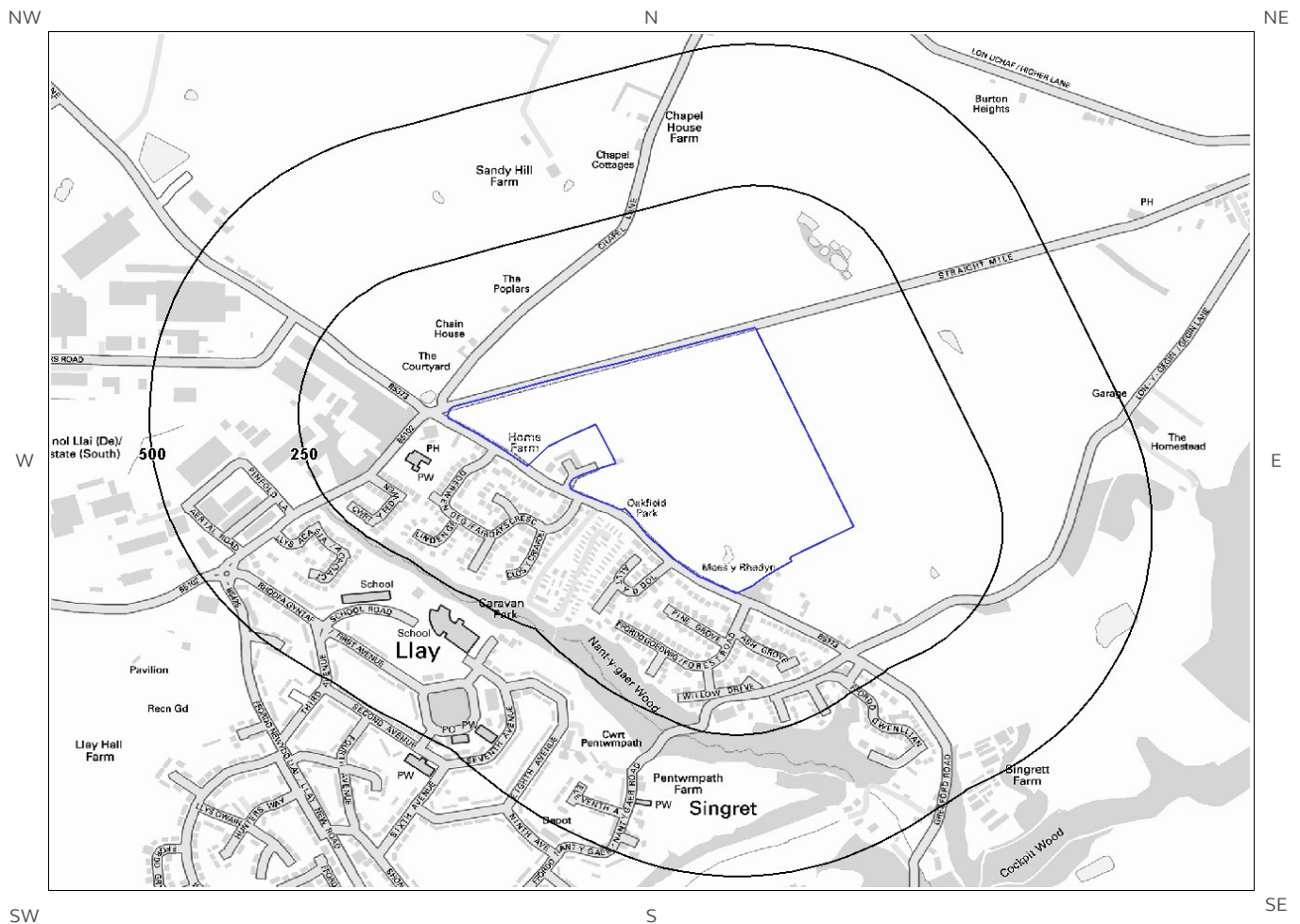
6.11 Surface Water Features

Are there any surface water features within 250m of the study site? Yes

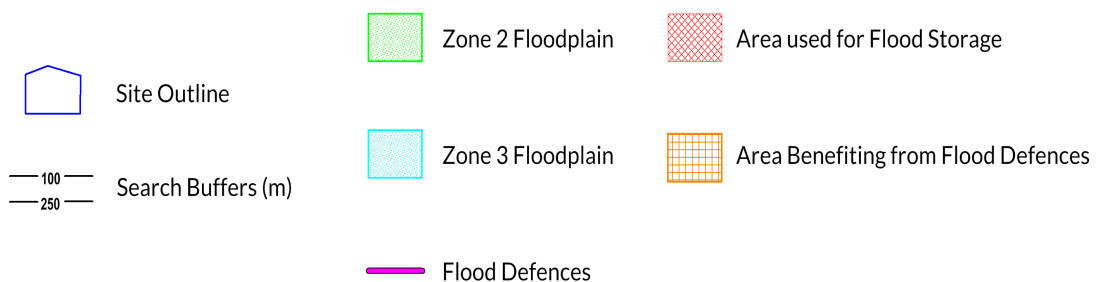
The following surface water records are not represented on mapping:

Distance (m)	Direction
170	NE
171	NE
175	NE
192	NE
196	NE
211	SW
236	SW

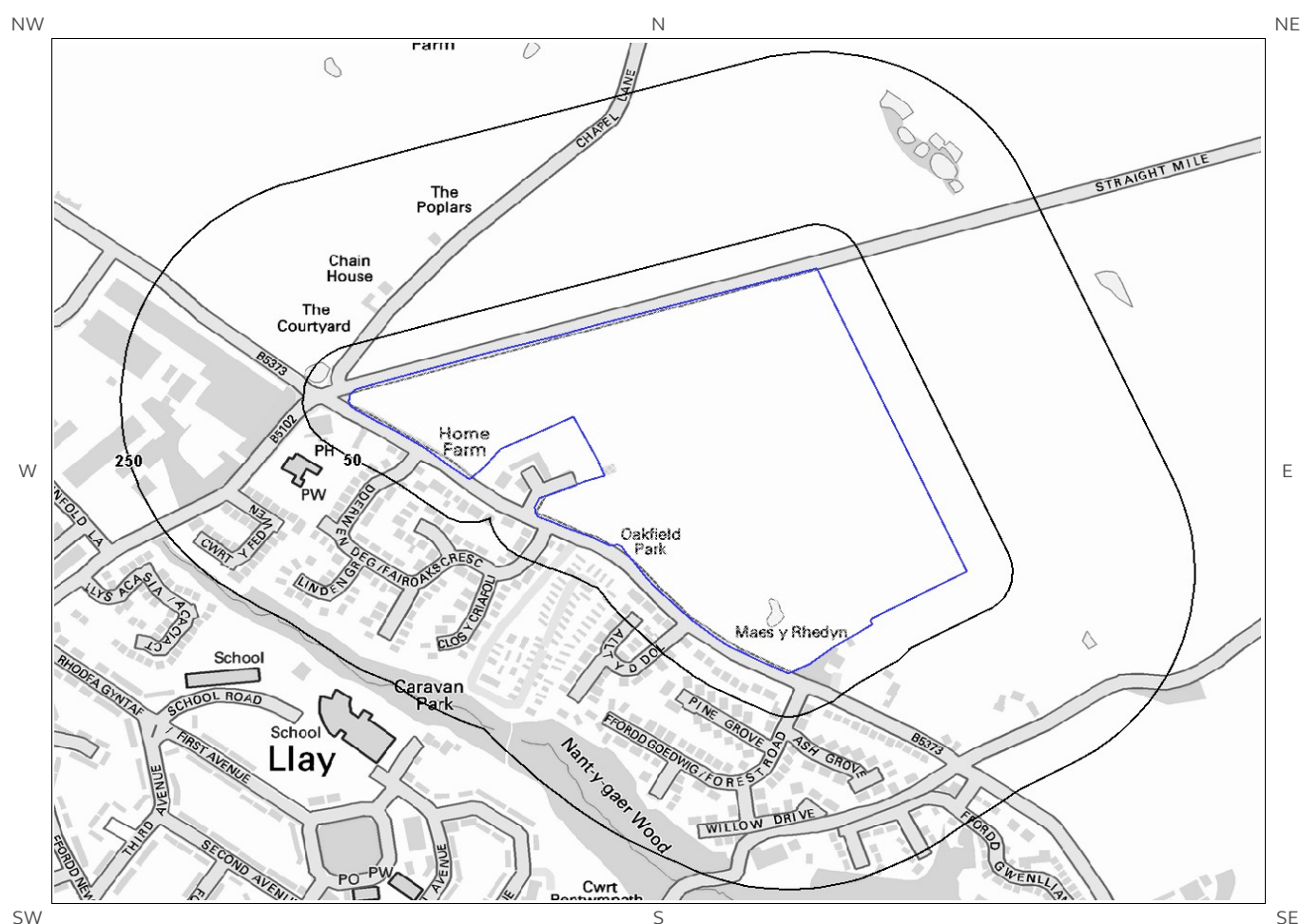
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



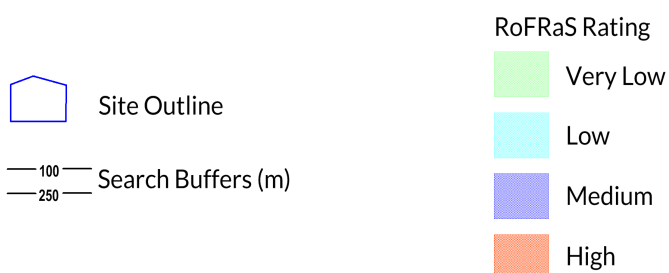
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7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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7 Flooding

7.1 River and Coastal Zone 2 Flooding

Is the site within 250m of an Environment Agency/Natural Resources Wales Zone 2 floodplain? No

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

Database searched and no data found.

7.2 River and Coastal Zone 3 Flooding

Is the site within 250m of an Environment Agency/Natural Resources Wales Zone 3 floodplain? No

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

Database searched and no data found.

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

What is the highest risk of flooding onsite? Very Low

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

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

7.4 Flood Defences

Are there any Flood Defences within 250m of the study site? No
Database searched and no data found.

7.5 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site? No

7.6 Areas benefiting from Flood Storage

Are there any areas used for Flood Storage within 250m of the study site?

No

7.7 Groundwater Flooding Susceptibility Areas

7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes

Does this relate to Clearwater Flooding or Superficial Deposits Flooding? Superficial Deposits Flooding

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

7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?

Limited potential

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

7.8 Groundwater Flooding Confidence Areas

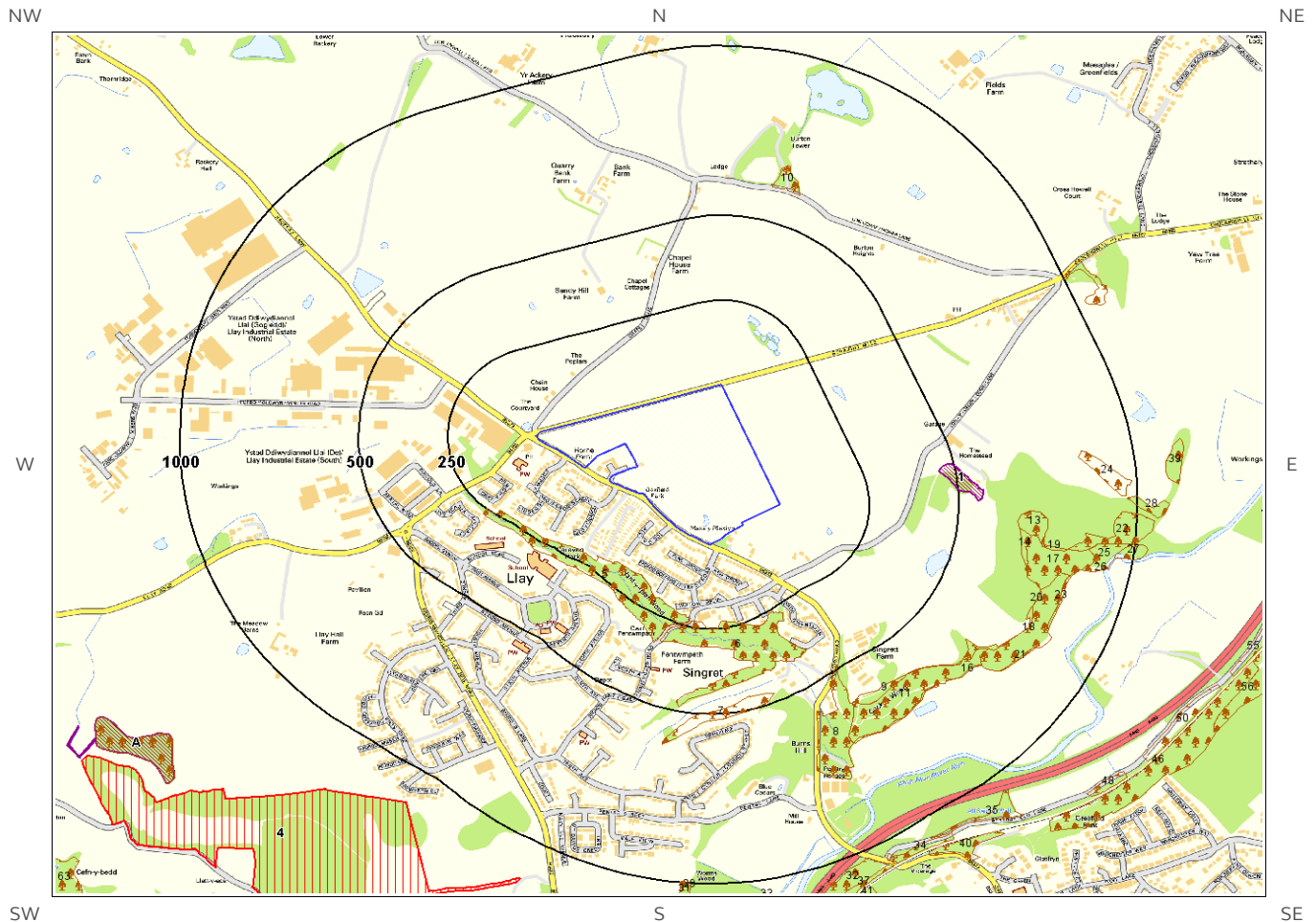
What is the British Geological Survey confidence rating in this result?

High

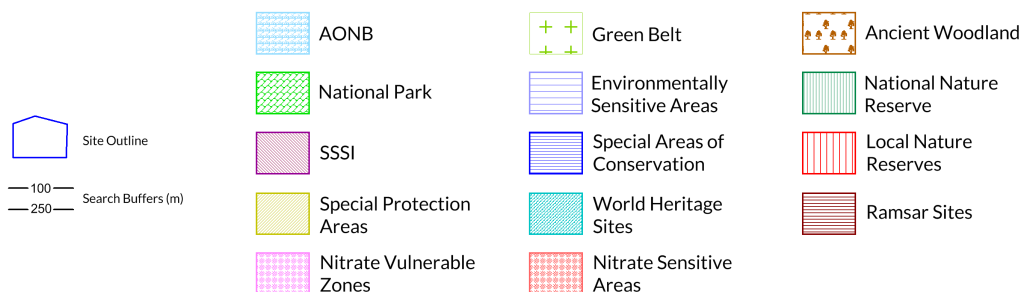
Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

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

8. Designated Environmentally Sensitive Sites Map



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8. Designated Environmentally Sensitive Sites

Presence of Designated Environmentally Sensitive Sites within 2000m of the study site?

Yes

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

3

The following Site of Special Scientific Interest (SSSI) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	SSSI Name	Data Source
1	455	E	CHWAREL SINGRET	Natural Resources Wales
2A	1350	SW	LLAY BOG	Natural Resources Wales
Not shown	1492	E	MARFORD QUARRY	Natural Resources Wales

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

75

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

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
5	173	SW	Unknown	Ancient and Semi-Natural Woodland
6	226	S	Unknown	Ancient and Semi-Natural Woodland
7	461	S	Unknown	Ancient and Semi-Natural Woodland
8	488	SE	Unknown	Restored Ancient Woodland Site
9	598	SE	Unknown	Ancient and Semi-Natural Woodland
10	601	N	Unknown	Ancient and Semi-Natural Woodland
11	605	SE	Unknown	Restored Ancient Woodland Site
12	653	SE	Unknown	Restored Ancient Woodland Site
13	665	E	Unknown	Ancient Replanted Woodland
14	673	E	Unknown	Ancient and Semi-Natural Woodland
15	681	SE	Unknown	Ancient and Semi-Natural Woodland
16	695	SE	Unknown	Ancient and Semi-Natural Woodland
17	699	E	Unknown	Restored Ancient Woodland Site
18	715	SE	Unknown	Ancient and Semi-Natural Woodland
19	736	E	Unknown	Ancient and Semi-Natural Woodland
20	765	SE	Unknown	Ancient and Semi-Natural Woodland
21	784	SE	Unknown	Ancient and Semi-Natural Woodland
22	816	E	Unknown	Ancient and Semi-Natural Woodland
23	826	E	Unknown	Ancient and Semi-Natural Woodland
24	846	E	Unknown	Ancient and Semi-Natural Woodland
25	864	E	Unknown	Ancient and Semi-Natural Woodland
26	903	E	Unknown	Ancient and Semi-Natural Woodland
27	948	E	Unknown	Ancient and Semi-Natural Woodland
28	969	E	Unknown	Ancient and Semi-Natural Woodland
29	996	S	Unknown	Ancient and Semi-Natural Woodland
30	996	NE	Unknown	Ancient and Semi-Natural Woodland
31	998	S	Unknown	Restored Ancient Woodland Site

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
32	1023	SE	Unknown	Restored Ancient Woodland Site
33	1036	S	Unknown	Ancient and Semi-Natural Woodland
34	1037	SE	Unknown	Restored Ancient Woodland Site
35	1051	SE	Unknown	Ancient and Semi-Natural Woodland
Not shown	1065	S	Unknown	Restored Ancient Woodland Site
37	1066	SE	Unknown	Ancient and Semi-Natural Woodland
Not shown	1071	S	Unknown	Ancient and Semi-Natural Woodland
39	1082	E	Unknown	Ancient and Semi-Natural Woodland
40	1089	SE	Unknown	Restored Ancient Woodland Site
41	1100	SE	Unknown	Ancient and Semi-Natural Woodland
Not shown	1109	S	Unknown	Restored Ancient Woodland Site
Not shown	1131	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1134	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1161	S	Unknown	Ancient and Semi-Natural Woodland
46	1196	SE	Unknown	Ancient and Semi-Natural Woodland
Not shown	1200	N	Unknown	Restored Ancient Woodland Site
48	1209	SE	Unknown	Ancient and Semi-Natural Woodland
Not shown	1237	S	Unknown	Ancient and Semi-Natural Woodland
50	1258	SE	Unknown	Ancient and Semi-Natural Woodland
Not shown	1268	N	Unknown	Ancient and Semi-Natural Woodland
Not shown	1274	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1321	S	Unknown	Ancient and Semi-Natural Woodland
54A	1350	SW	Unknown	Ancient and Semi-Natural Woodland
55	1351	E	Unknown	Ancient and Semi-Natural Woodland
56	1374	SE	Unknown	Ancient Replanted Woodland
Not shown	1376	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1385	S	Unknown	Restored Ancient Woodland Site

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
Not shown	1434	E	Unknown	Restored Ancient Woodland Site
Not shown	1452	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1492	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1563	S	Unknown	Restored Ancient Woodland Site
63	1642	SW	Unknown	Ancient and Semi-Natural Woodland
Not shown	1758	E	Unknown	Ancient and Semi-Natural Woodland
Not shown	1774	SW	Unknown	Ancient and Semi-Natural Woodland
Not shown	1816	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1824	S	Unknown	Restored Ancient Woodland Site
Not shown	1829	E	Unknown	Restored Ancient Woodland Site
Not shown	1860	W	Unknown	Ancient and Semi-Natural Woodland
Not shown	1866	W	Unknown	Ancient and Semi-Natural Woodland
Not shown	1873	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1880	SW	Unknown	Ancient and Semi-Natural Woodland
Not shown	1927	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1945	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1957	W	Unknown	Ancient and Semi-Natural Woodland
Not shown	1962	W	Unknown	Ancient and Semi-Natural Woodland
Not shown	1965	NW	Unknown	Ancient and Semi-Natural Woodland
Not shown	1971	S	Unknown	Ancient and Semi-Natural Woodland
Not shown	1978	S	Unknown	Ancient and Semi-Natural Woodland

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

1

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

ID	Distance (m)	Direction	LNR Name	Data Source
4	1104	SW	ALYN WATERS	Natural Resources Wales

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

9. Natural Hazards Findings

9.1 Detailed BGS GeoSure Data

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

9.1.1 Shrink Swell

What is the maximum Shrink-Swell* hazard rating identified on the study site? Very Low

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

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

9.1.2 Landslides

What is the maximum Landslide* hazard rating identified on the study site? Very Low

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

Hazard
Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

9.1.3 Soluble Rocks

What is the maximum Soluble Rocks* hazard rating identified on the study site? Negligible

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

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

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

9.1.4 Compressible Ground

What is the maximum Compressible Ground* hazard rating identified on the study site?

Negligible

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

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

9.1.5 Collapsible Rocks

What is the maximum Collapsible Rocks* hazard rating identified on the study site?

Very Low

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

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

9.1.6 Running Sand

What is the maximum Running Sand** hazard rating identified on the study site?

Very Low

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

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

9.2 Radon

9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is in a Radon Affected Area, as between 5 and 10% of properties are above the Action Level.

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

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

10. Mining

10.1 Coal Mining

Are there any coal mining areas within 75m of the study site?

Yes

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

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

10.2 Non-Coal Mining

Are there any Non-Coal Mining areas within 50m of the study site boundary?

No

Database searched and no data found.

10.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site?

No

Guidance: No Guidance Required.

Contact Details

CENTREMAPS

Telephone: 01886 832972
Groundsure@centremaps.co.uk
Open Space, Upper Interfields, Malvern, Worcester, WR14 1UT



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**The Coal
Authority**

Ordnance Survey

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Tel: 08456 050505



Local Authority

Authority: Wrexham - Wrexham County Borough Council
Phone: 01978 292 000
Web: <http://www.wrexham.gov.uk/>
Address: The Guildhall, Wrexham, Wrexham, LL11 1AY

Gemapping PLC
Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
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