



Groundsure

LOCATION INTELLIGENCE

Martin Environmental Solutions
19, Ord Avenue,
Blackpool, FY4 4DW

Groundsure Reference: GS-4690144
Your Reference: O_Callaghan_Ltd
Report Date: 26 Jan 2018
Report Delivery Method: Email - pdf

Enviro Insight

Address: LAND OPPOSITE, WOODFIELD GARAGE, LONGSIGHT ROAD, CLAYTON LE DALE, BB2 7JA

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Yours faithfully,

Managing Director
Groundsure Limited

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Address: LAND OPPOSITE, WOODFIELD GARAGE, LONGSIGHT ROAD, CLAYTON LE DALE, BB2 7JA
Date: 26 Jan 2018
Reference: GS-4690144
Client: Martin Environmental Solutions



Aerial Photograph Capture date: 26-Mar-2012
Grid Reference: 365815,432620
Site Size: 0.35ha

Report Reference: GS-4690144
Client Reference: O_Callaghan_Ltd

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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 | 0 | 8 | 11 |
| 1.2 Additional Information – Historical Tank Database | 0 | 0 | 0 | 2 |
| 1.3 Additional Information – Historical Energy Features Database | 0 | 0 | 0 | 0 |
| 1.4 Additional Information – Historical Petrol and Fuel Site Database | 1 | 0 | 0 | 0 |
| 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database | 0 | 1 | 0 | 2 |
| 1.6 Potentially Infilled Land | 0 | 0 | 13 | 24 |
| Section 2: Environmental Permits, Incidents and Registers | On-site | 0-50m | 51-250 | 251-500 |
| 2.1 Industrial Sites Holding Environmental Permits and/or Authorisations | | | | |
| 2.1.1 Records of historic IPC Authorisations | 0 | 0 | 0 | 0 |
| 2.1.2 Records of Part A(1) and IPPC Authorised Activities | 0 | 0 | 0 | 0 |
| 2.1.3 Records of Red List Discharge Consents | 0 | 0 | 0 | 0 |
| 2.1.4 Records of List 1 Dangerous Substances Inventory sites | 0 | 0 | 0 | 0 |
| 2.1.5 Records of List 2 Dangerous Substances Inventory sites | 0 | 0 | 0 | 0 |
| 2.1.6 Records of Part A(2) and Part B Activities and Enforcements | 0 | 0 | 0 | 1 |
| 2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations | 0 | 0 | 0 | 0 |
| 2.1.8 Records of Licensed Discharge Consents | 0 | 0 | 0 | 4 |
| 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 | 0 | 0 |
| 2.3.2 National Incidents Recording System, List 1 | 0 | 0 | 0 | 0 |
| 2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990 | 0 | 0 | 0 | 0 |

| Section 3: Landfill and Other Waste Sites | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-1500 |
|--|---------|-------|--------|---------|--------------|--------------|
| 3.1 Landfill Sites | | | | | | |
| 3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites | 0 | 0 | 0 | 0 | 0 | Not searched |
| 3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 |
| 3.2 Landfill and Other Waste Sites Findings | | | | | | |
| 3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites | 0 | 0 | 0 | 0 | 0 | 0 |

| Section 4: Current Land Use | On-site | 0-50m | 51-250 | 251-500 |
|--|---------|-------|--------|--------------|
| 4.1 Current Industrial Sites Data | 0 | 2 | 0 | Not searched |
| 4.2 Records of Petrol and Fuel Sites | 0 | 1 | 1 | 1 |
| 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 | 0 |
| 6.4 Surface Water Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.5 Potable Water Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.6 Source Protection Zones (within 500m of the study site) | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 6.7 Source Protection Zones within Confined Aquifer | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site) | 1 | 0 | 0 | 1 | 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 | No | No |
| 6.10 Detailed River Network entries within 500m of the site | 0 | 0 | 0 | 14 | Not searched | Not searched |
| 6.11 Surface water features within 250m of the study site | No | No | No | 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? | Low | | | | | |

| Section 8: Designated Environmentally Sensitive Sites | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|--|---------|-------|--------|---------|----------|-----------|
| 8.1 Records of Sites of Special Scientific Interest (SSSI) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.2 Records of National Nature Reserves (NNR) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.3 Records of Special Areas of Conservation (SAC) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.4 Records of Special Protection Areas (SPA) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.5 Records of Ramsar sites | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.6 Records of Ancient Woodlands | 0 | 0 | 0 | 1 | 0 | 4 |
| 8.7 Records of Local Nature Reserves (LNR) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.8 Records of World Heritage Sites | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.9 Records of Environmentally Sensitive Areas | 0 | 0 | 0 | 0 | 0 | 0 |

| Section 8: Designated Environmentally Sensitive Sites | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|--|---------|-------|--------|---------|----------|-----------|
| 8.10 Records of Areas of Outstanding Natural Beauty (AONB) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.11 Records of National Parks | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.12 Records of Nitrate Sensitive Areas | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.13 Records of Nitrate Vulnerable Zones | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.14 Records of Green Belt land | 0 | 0 | 0 | 0 | 0 | 2 |

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 not in a Radon Affected Area, as less than 1% 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? | No radon protective measures are necessary. |

Section 10: Mining

| | |
|---|-----|
| 10.1 Are there any coal mining areas within 75m of the study site? | No |
| 10.2 Are there any Non-Coal Mining areas within 50m of the study site boundary? | Yes |
| 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.

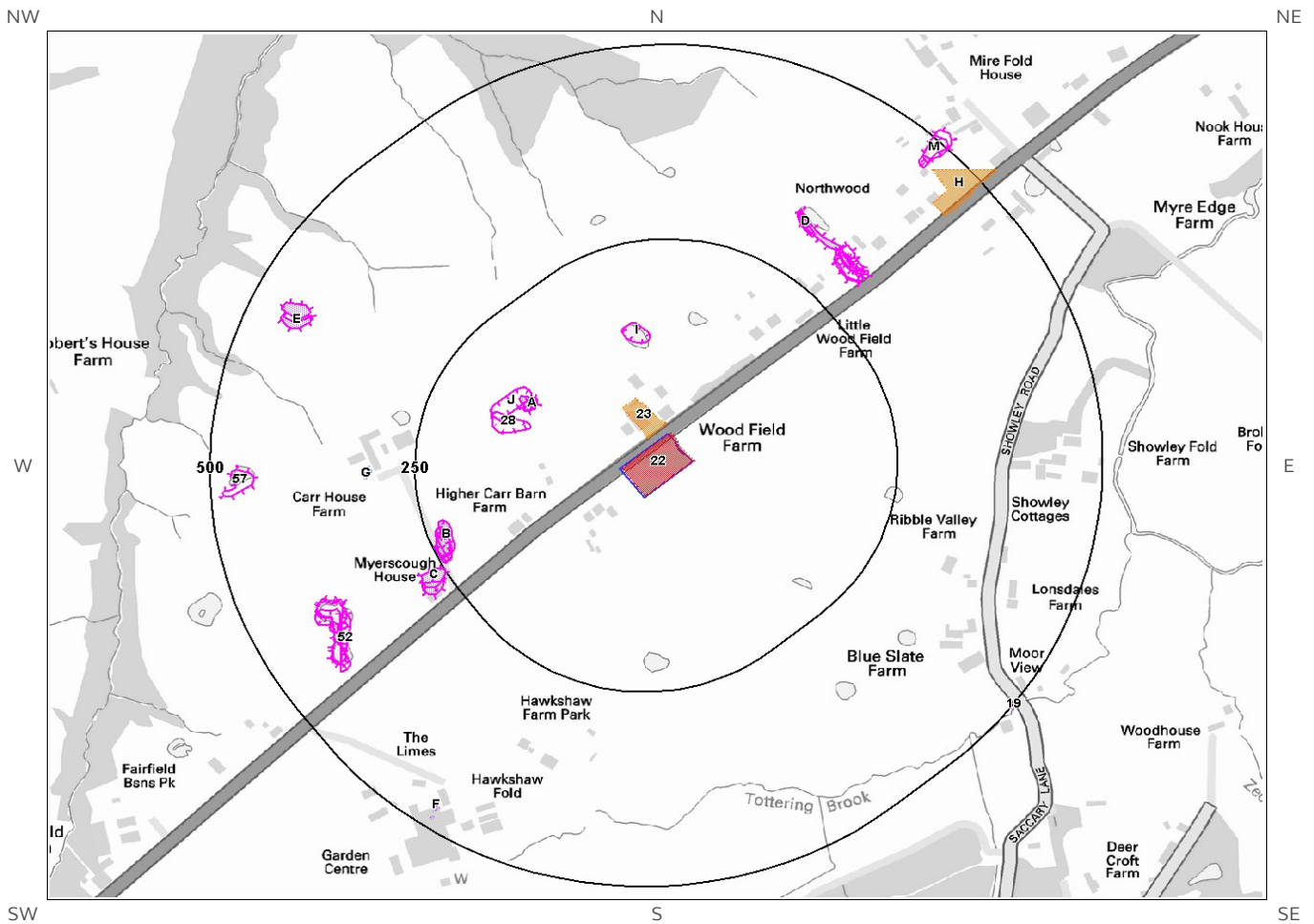
Note: Maps

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).

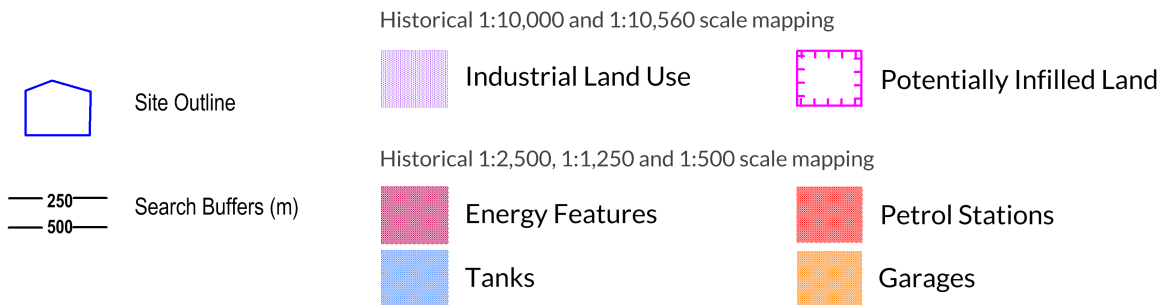
Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

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: 19

| ID | Distance [m] | Direction | Use | Date |
|-----|--------------|-----------|-----------------------------|------|
| 1A | 129 | NW | Unspecified Ground Workings | 1938 |
| 2A | 132 | NW | Unspecified Pit | 1930 |
| 3B | 220 | W | Unspecified Pit | 1951 |
| 4B | 226 | SW | Unspecified Pit | 1930 |
| 5B | 227 | W | Unspecified Pit | 1938 |
| 6C | 248 | SW | Unspecified Pit | 1910 |
| 7C | 248 | SW | Unspecified Pit | 1930 |
| 8C | 248 | SW | Unspecified Pit | 1892 |
| 9C | 260 | SW | Unspecified Pit | 1938 |
| 10K | 305 | NE | Ground Workings | 1968 |
| 11G | 306 | W | Unspecified Tank | 1938 |
| 12D | 308 | NE | Unspecified Ground Workings | 1910 |
| 13D | 309 | NE | Unspecified Ground Workings | 1938 |
| 14D | 309 | NE | Unspecified Ground Workings | 1930 |
| 15E | 421 | NW | Unspecified Ground Workings | 1910 |
| 16E | 427 | NW | Unspecified Pit | 1892 |
| 17F | 467 | SW | Unspecified Tank | 1951 |
| 18F | 483 | SW | Unspecified Tank | 1938 |
| 19 | 498 | SE | Pipe | 1846 |

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: 2

| ID | Distance (m) | Direction | Use | Date |
|-----|--------------|-----------|------------------|------|
| 20G | 302 | W | Unspecified Tank | 1967 |

21G

303

W

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: 0

Database searched and no data found.

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: 1

| ID | Distance (m) | Direction | Use | Date |
|----|--------------|-----------|-----------------|------|
| 22 | 0 | On Site | Filling Station | 1967 |

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: 3

| ID | Distance (m) | Direction | Use | Date |
|-----|--------------|-----------|--------|------|
| 23 | 10 | NW | Garage | 1993 |
| 24H | 438 | NE | Garage | 1993 |
| 25H | 438 | NE | Garage | |

1.6 Potentially Infilled Land

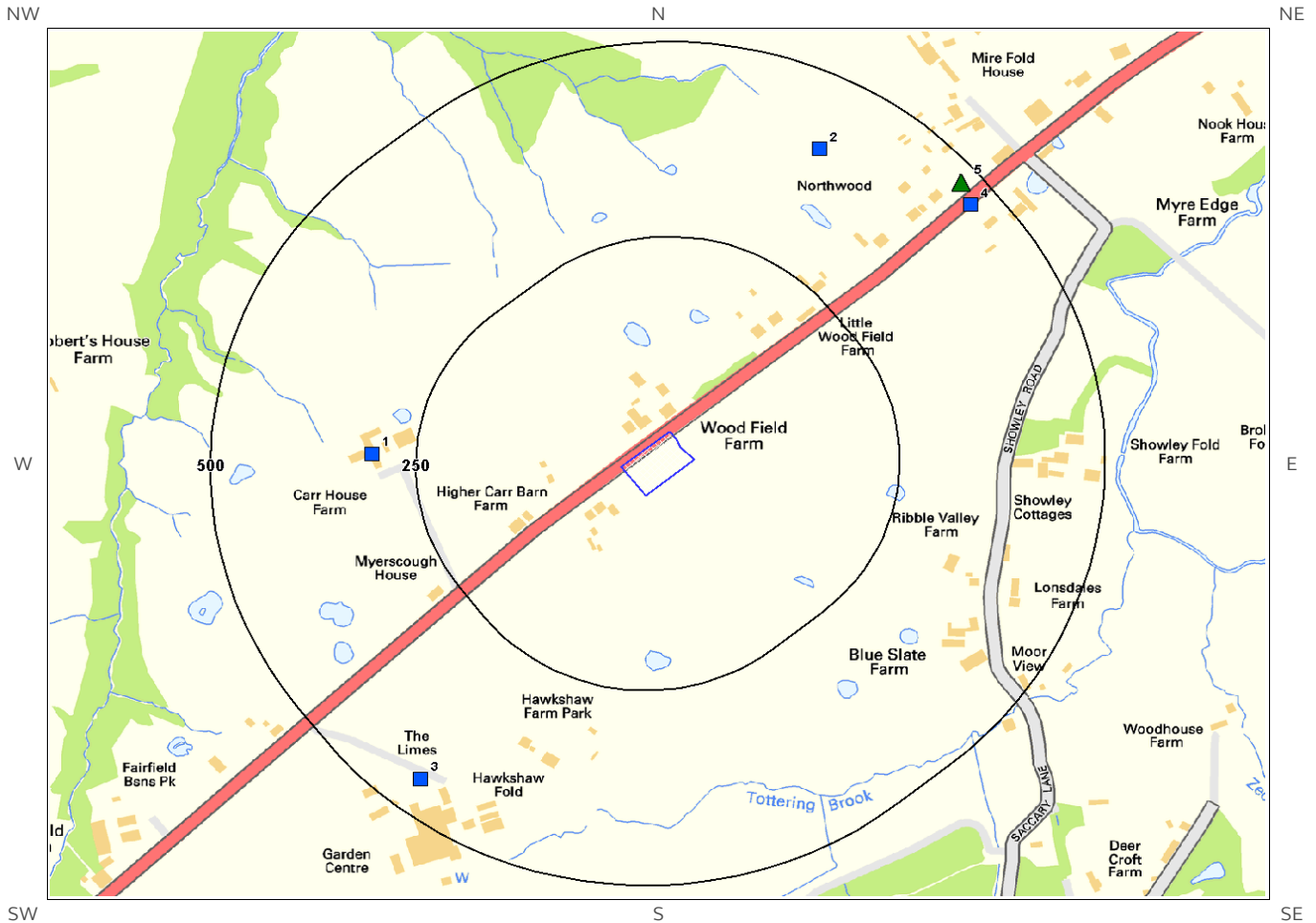
Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 37

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















| ID | Distance(m) | Direction | Use | Date |
|-----|-------------|-----------|------|------|
| 26I | 119 | N | Pond | 1976 |
| 27I | 119 | N | Pond | 1951 |

| | | | | |
|-----|-----|----|-----------------------------|------|
| 28 | 121 | NW | Ponds | 1938 |
| 29A | 129 | NW | Unspecified Ground Workings | 1938 |
| 30A | 132 | NW | Unspecified Pit | 1930 |
| 31J | 141 | NW | Ponds | 1892 |
| 32J | 141 | NW | Ponds | 1910 |
| 33B | 220 | W | Unspecified Pit | 1951 |
| 34B | 226 | SW | Unspecified Pit | 1930 |
| 35B | 227 | W | Unspecified Pit | 1938 |
| 36C | 248 | SW | Unspecified Pit | 1930 |
| 37C | 248 | SW | Unspecified Pit | 1910 |
| 38C | 248 | SW | Unspecified Pit | 1892 |
| 39C | 260 | SW | Unspecified Pit | 1938 |
| 40K | 295 | NE | Pond | 1910 |
| 41K | 297 | NE | Pond | 1892 |
| 42K | 297 | NE | Pond | 1938 |
| 43K | 297 | NE | Pond | 1930 |
| 44K | 305 | NE | Ground Workings | 1968 |
| 45K | 307 | NE | Pond | 1951 |
| 46D | 308 | NE | Unspecified Ground Workings | 1910 |
| 47D | 309 | NE | Unspecified Ground Workings | 1930 |
| 48D | 309 | NE | Unspecified Ground Workings | 1938 |
| 49L | 379 | SW | Ponds | 1892 |
| 50L | 380 | SW | Ponds | 1976 |
| 51L | 380 | SW | Ponds | 1951 |
| 52 | 380 | SW | Ponds | 1938 |
| 53L | 388 | SW | Pond | 1910 |
| 54L | 388 | SW | Pond | 1932 |
| 55E | 421 | NW | Unspecified Ground Workings | 1910 |
| 56E | 427 | NW | Unspecified Pit | 1892 |
| 57 | 446 | W | Pond | 1932 |
| 58M | 462 | NE | Pond | 1910 |
| 59M | 462 | NE | Pond | 1892 |
| 60M | 462 | NE | Pond | 1938 |
| 61M | 462 | NE | Pond | 1930 |
| 62M | 470 | NE | Pond | 1951 |

2. Environmental Permits, Incidents and Registers Map



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

2. Environmental Permits, Incidents and Registers

2.1 Industrial Sites Holding Licences and/or Authorisations

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

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

1

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 |
|----|--------------|-----------|------------------|--|
| 5 | 476 | NE | 366180 432977 | Address: Royal Oak, Longsight Road, Clayton-le-Dale, Blackburn, BB1 9EX Process: Vapour Recovery Status: Historical Permit Permit Type: Part B Enforcement: No Enforcements Notified Date of Enforcement: No Enforcements Notified Comment: No Enforcements Notified |

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:

4

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

| ID | Distance (m) | Direction | NGR | Details |
|----|--------------|-----------|------------------|---|
| 1 | 304 | W | 365462 432631 | Address: CARR HOUSE FARM, LONGSIGHT RD, CLAYTON LE DALE, BLACKBURN, LANCASHIRE, BB2 7JA Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 011163 Permit Version: 1 Receiving Water: TRIB OF RIVER RIBBLE Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY) Issue date: 29/05/1962 Effective Date: 29-May-1962 Revocation Date: - |
| 2 | 406 | NE | 366007 433022 | Address: NORTHWOOD, NORTHWOOD, LONGSIGHT ROAD, BLACKBURN, LANCASHIRE, BB1 9EX Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRMP3521GZ Permit Version: 1 Receiving Water: UNNAMED TRIB OF RIVER RIBBLE Status: NEW ISSUED UNDER EPR 2010 Issue date: 27/09/2011 Effective Date: 30-Apr-2017 Revocation Date: - |
| 3 | 455 | SW | 365521 432214 | Address: HAWKSHAW FARM BUNGALOW, LONGSIGHT RD, CLAYTON LE DALE, BLACKBURN, LANCASHIRE, BB2 7JA Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 011043 Permit Version: 1 Receiving Water: TRIB OF PARK BROOK Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY) Issue date: 06/08/1961 Effective Date: 06-Aug-1961 Revocation Date: - |

| ID | Distance (m) | Direction | NGR | Details | |
|----|--------------|-----------|------------------|--|--|
| 4 | 467 | NE | 366190 432950 | Address: 1 ROSE COTTAGE, LONGSIGHT ROAD, CLAYTON-LE-DALE, BLACKBURN, BB1 9EX Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 017190869 Permit Version: 1 | Receiving Water: UNNAMED TRIB OF SHOWLEY BROOK Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 09/06/2005 Effective Date: 09-Jun-2005 Revocation Date: - |

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:

0

Database searched and no data found.

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

0

Database searched and no data found.

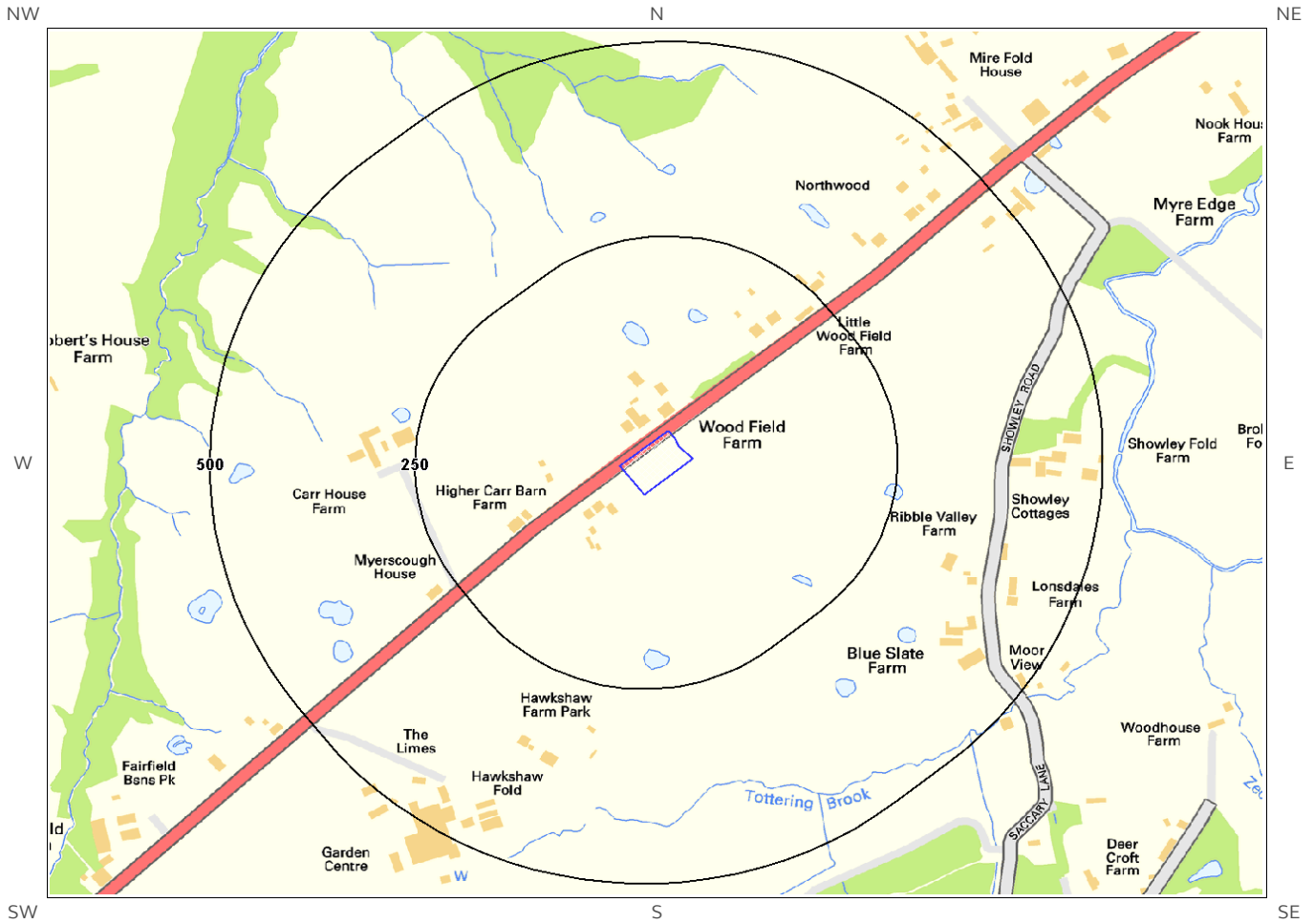
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

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.

3. Landfill and Other Waste Sites Map



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- | | | | | | |
|---|------------------------|---|---------------------------|---|---|
|  | Site Outline |  | EA/NRW Active Landfill |  | Historic and Planned Waste Sites |
|  | 250 Search Buffers (m) |  | EA/NRW Historic Landfill |  | EA/NRW Licensed Waste Site |
|  | 500 Search Buffers (m) |  | BGS / DoE Survey Landfill |  | Local Authority/Historical Mapping Landfill Records |

3. Landfill and Other Waste Sites

3.1 Landfill Sites

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

0

Database searched and no data found.

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

1

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 |
|-----------|--------------|-----------|-----|--|
| Not shown | 1264 | SW | | Site Address: Abbot Brow, Abbot Brow, Mellor, Lancashire Waste Licence: - Site Reference: K1/03/004, 200/137 Waste Type: Industrial, Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Holder Address: - Operator: Ribble Valley Borough Council Licence Holder: John Hardacre First Recorded: 31-Dec-1967 Last Recorded: 31-Dec-1980 |

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

0

Database searched and no data found.

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

0

Database searched and no data found.

3.2 Other Waste Sites

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

0

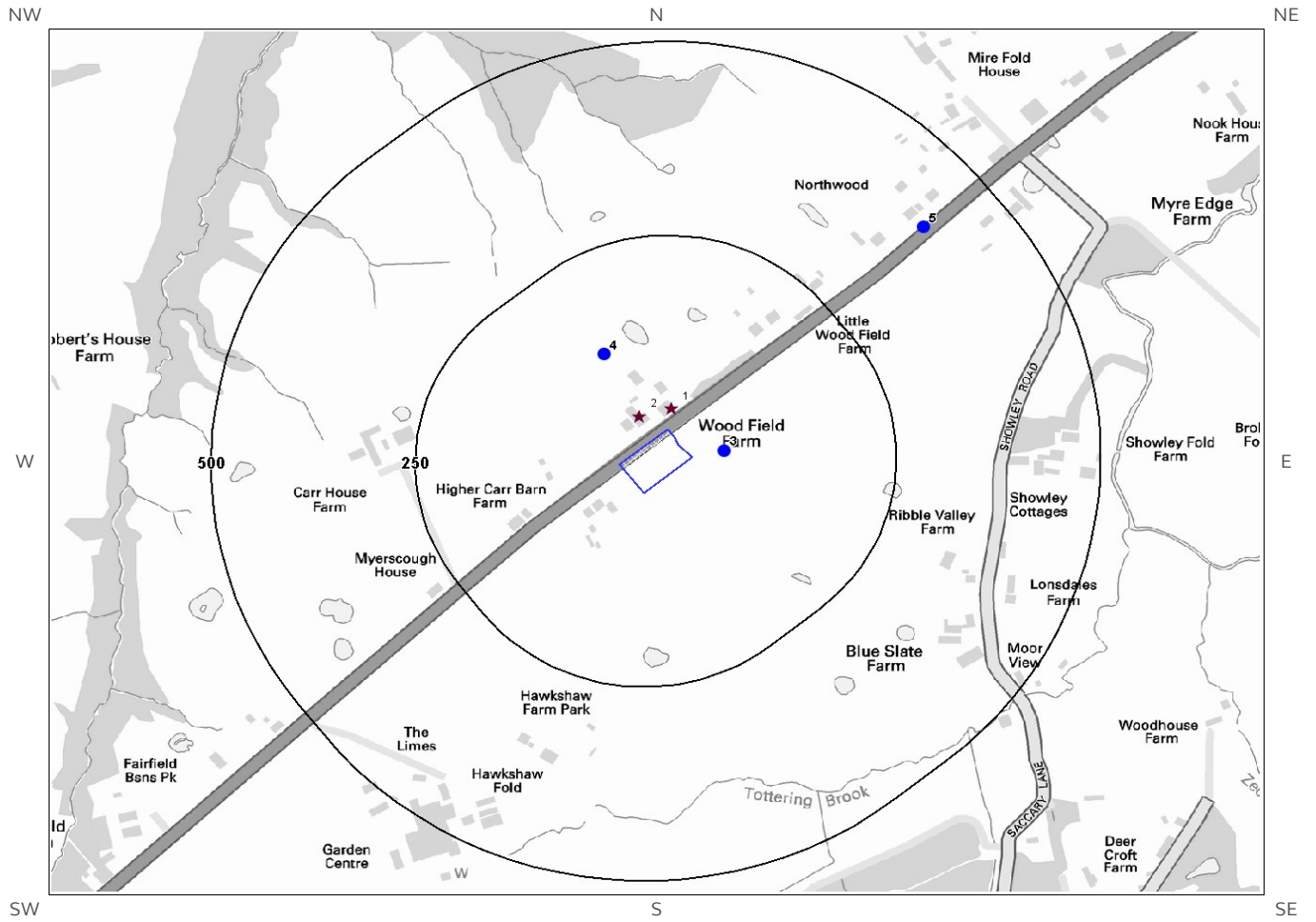
Database searched and no data found.

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

0

Database searched and no data found.

4. Current Land Use Map



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-  Site Outline
-  Current Industrial Sites
-  Electricity Transmission Cables
-  Search Buffers (m)
-  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: 2

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

| ID | Distance (m) | Direction | Company | NGR | Address | Activity | Category |
|----|--------------|-----------|-------------------|------------------|--|---------------------------------------|----------------------|
| 1 | 28 | N | The Energy Centre | 365828 432687 | Woodfield Farm, Longsight Road, Clayton-Le-Dale, Blackburn, BB2 7JA | Electronic Equipment | Industrial Products |
| 2 | 36 | NW | Woodfield Garage | 365789 432677 | Longsight Road, Clayton-Le-Dale, Blackburn, BB2 7JA | Vehicle Repair, Testing and Servicing | Repair and Servicing |

4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 3

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 |
|----|--------------|-----------|------------------|-----------|--|----------------|----------|
| 3 | 40 | E | 365893 432632 | Obsolete | Woodfield Derv, Longsight Road, Longsight Road, Clayton-Le-Dale, Blackburn, Lancashire, BB2 7JA | Not Applicable | Obsolete |
| 4 | 124 | NW | 365746 432756 | Unbranded | Woodfield Garage, Longsight Road, Longsight Road, Clayton-Le-Dale, Blackburn, Lancashire, BB2 7JA | Not Applicable | Obsolete |
| 5 | 407 | NE | 366137 432920 | Obsolete | Royal Oak Garage, Longsight Road, Longsight Road, Clayton-Le-Dale, Blackburn, Lancashire, BB1 9EX | 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 |
|------------|-----------------|-----------|
| TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |
| TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |

5.3 Bedrock and Solid Geology

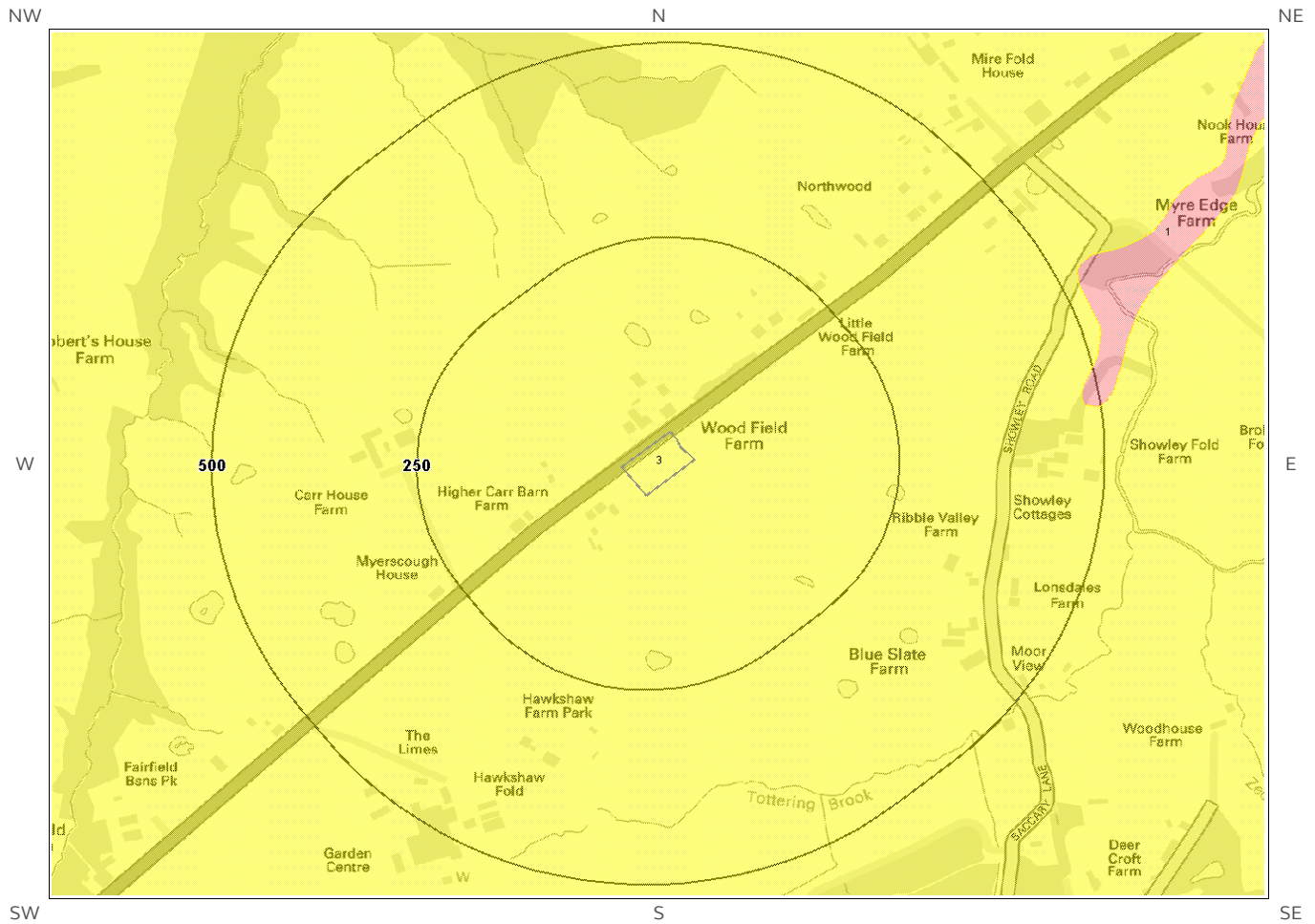
The database has been searched on site, including a 50m buffer.

| Lex Code | Description | Rock Type |
|-----------|-------------------------|-----------|
| PG-SDST | PENDLE GRIT MEMBER | SANDSTONE |
| CPGS-SDST | COPSTER GREEN SANDSTONE | SANDSTONE |
| PG-SDST | PENDLE GRIT MEMBER | SANDSTONE |

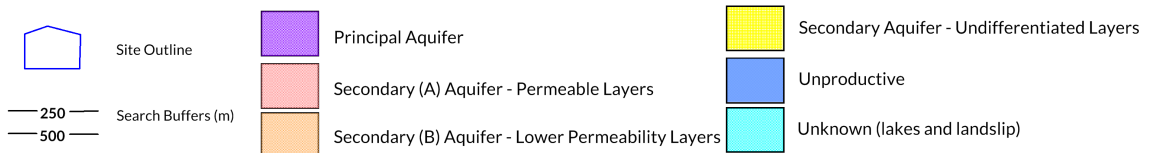
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

6 Hydrogeology and Hydrology

6a. Aquifer Within Superficial Geology



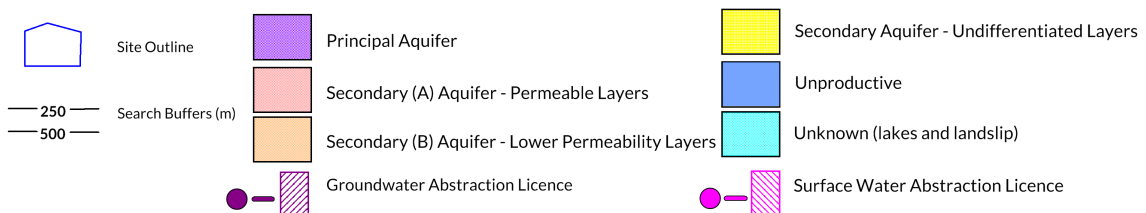
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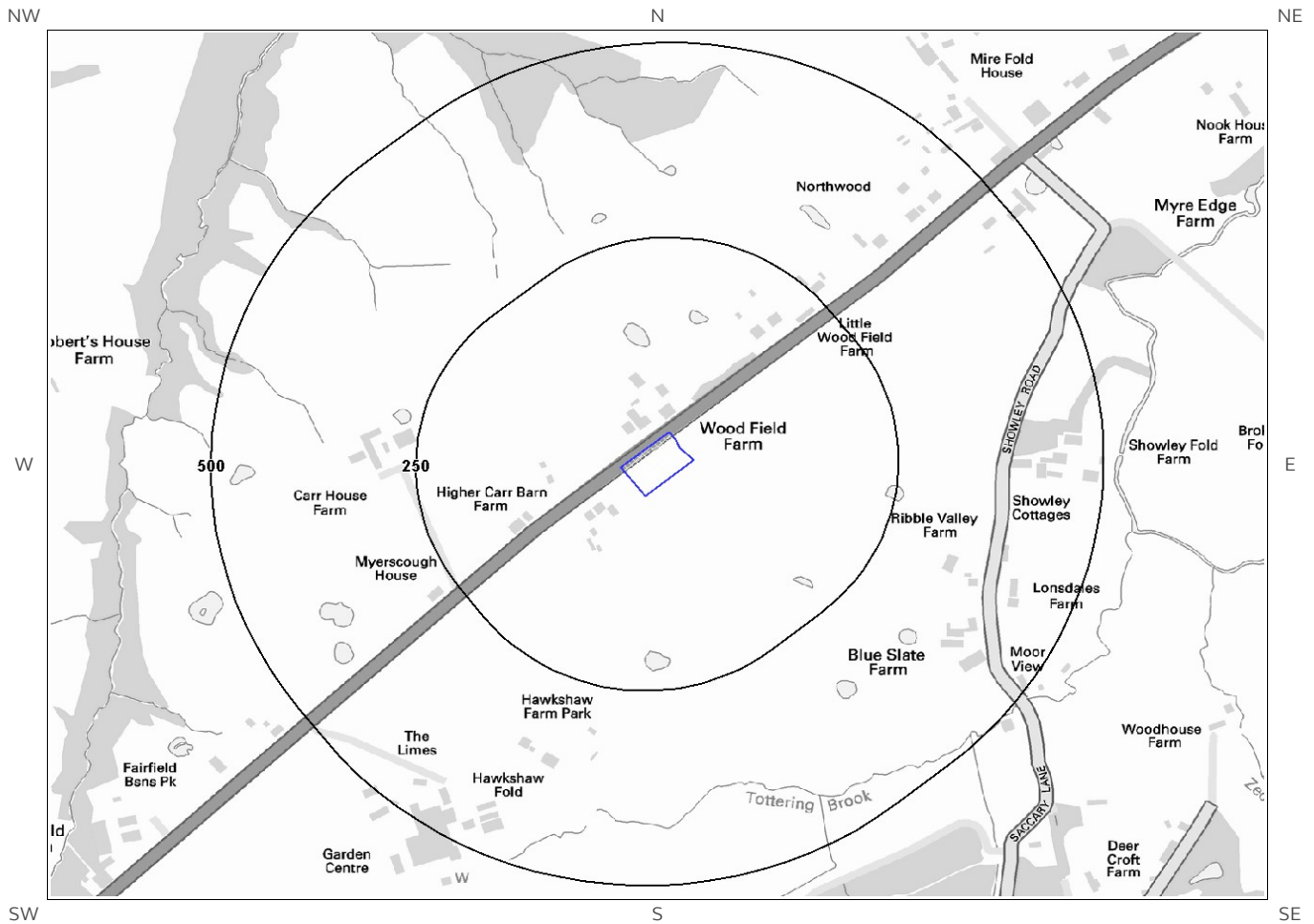
6b. Aquifer Within Bedrock Geology and Abstraction Licenses



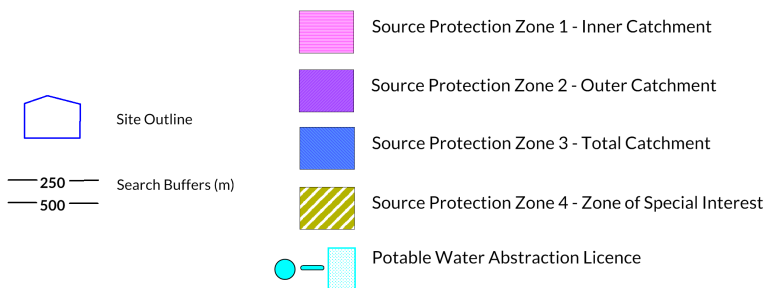
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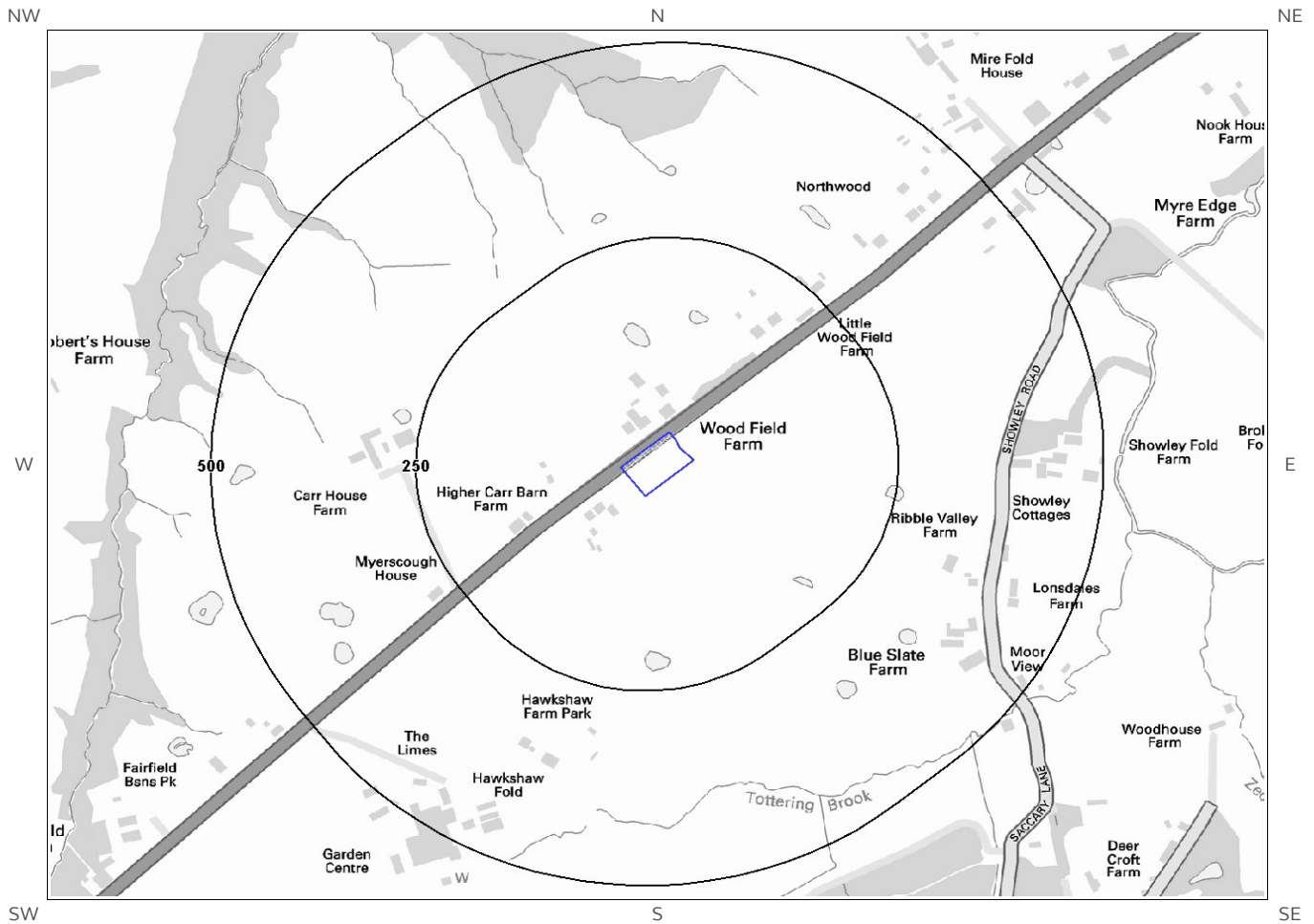
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



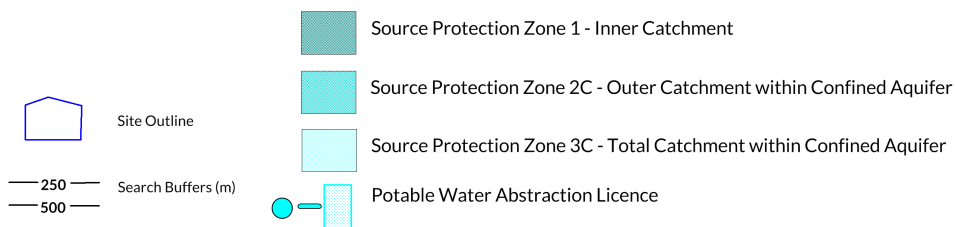
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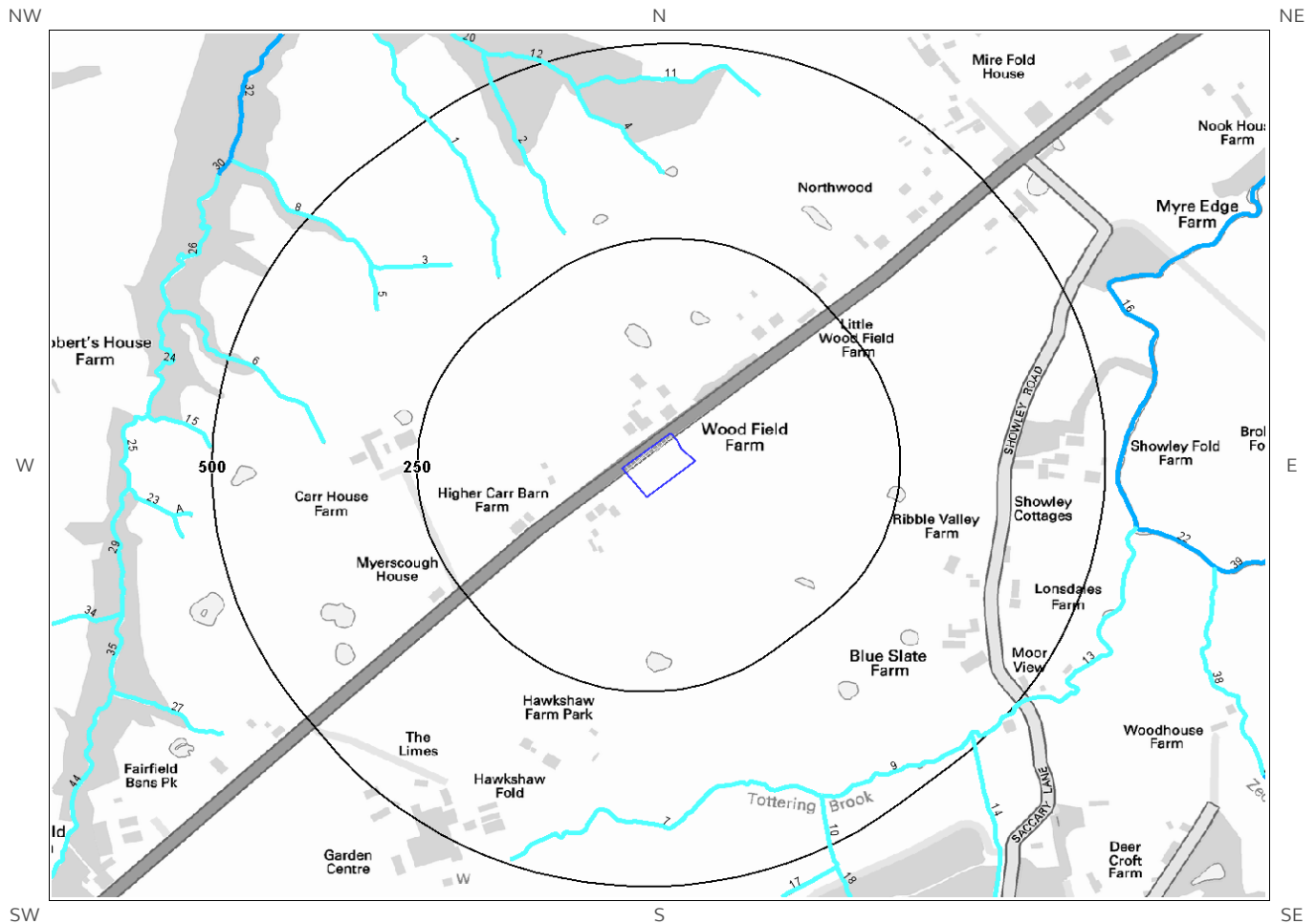
6d. Hydrogeology – Source Protection Zones within confined aquifer



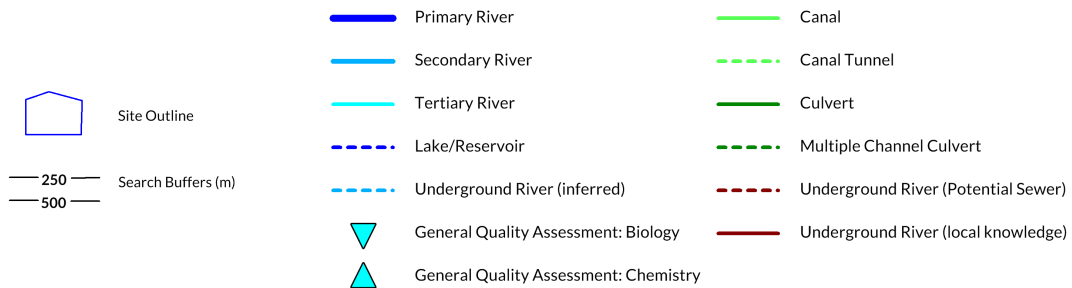
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6e. Hydrology – Detailed River Network and River Quality



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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 |
|----|--------------|-----------|------------------------------|---|
| 3 | 0 | On Site | Secondary (undifferentiated) | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 1 | 479 | E | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |

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 |
|----|--------------|-----------|-------------|--|
| 1 | 0 | On Site | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |

6.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

6.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site? No

Database searched and no data found.

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/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. |
| 414 | E | Minor Aquifer/High Leaching Potential | H1 | Soils which readily transmit liquid discharges because they are shallow or susceptible to rapid flow directly to rock, gravel or groundwater. |

6.9 River Quality

Is there any Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site? No

6.9.1 Biological Quality:

Database searched and no data found.

6.9.2 Chemical Quality:

Database searched and no data found.

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 | 286 | NW | River Name: - Welsh River Name: - Alternative Name: - River Type: Tertiary River Main River Status: Currently Undefined |
| 2 | 286 | NW | River Name: - Welsh River Name: - Alternative Name: - River Type: Tertiary River Main River Status: Currently Undefined |
| 3 | 334 | NW | River Name: Drain Welsh River Name: - Alternative Name: - River Type: Tertiary River Main River Status: Currently Undefined |

| ID | Distance (m) | Direction | Details | |
|----|--------------|-----------|---|--|
| 4 | 335 | N | River Name: - Welsh River Name: - Alternative Name: - | River Type: Tertiary River Main River Status: Currently Undefined |
| 5 | 360 | NW | River Name: - Welsh River Name: - Alternative Name: - | River Type: Tertiary River Main River Status: Currently Undefined |
| 6 | 364 | W | River Name: - Welsh River Name: - Alternative Name: - | River Type: Tertiary River Main River Status: Currently Undefined |
| 7 | 381 | S | River Name: Tottering Brook Welsh River Name: - Alternative Name: - | River Type: Tertiary River Main River Status: Currently Undefined |
| 8 | 404 | NW | River Name: - Welsh River Name: - Alternative Name: - | River Type: Tertiary River Main River Status: Currently Undefined |
| 9 | 438 | SE | River Name: Tottering Brook Welsh River Name: - Alternative Name: - | River Type: Tertiary River Main River Status: Currently Undefined |
| 10 | 438 | SE | River Name: - Welsh River Name: - Alternative Name: - | River Type: Tertiary River Main River Status: Currently Undefined |
| 11 | 447 | N | River Name: - Welsh River Name: - Alternative Name: - | River Type: Tertiary River Main River Status: Currently Undefined |
| 12 | 457 | N | River Name: - Welsh River Name: - Alternative Name: - | River Type: Tertiary River Main River Status: Currently Undefined |
| 13 | 485 | SE | River Name: Tottering Brook Welsh River Name: - Alternative Name: - | River Type: Tertiary River Main River Status: Currently Undefined |
| 14 | 486 | SE | River Name: - Welsh River Name: - Alternative Name: - | River Type: Tertiary River Main River Status: Currently Undefined |

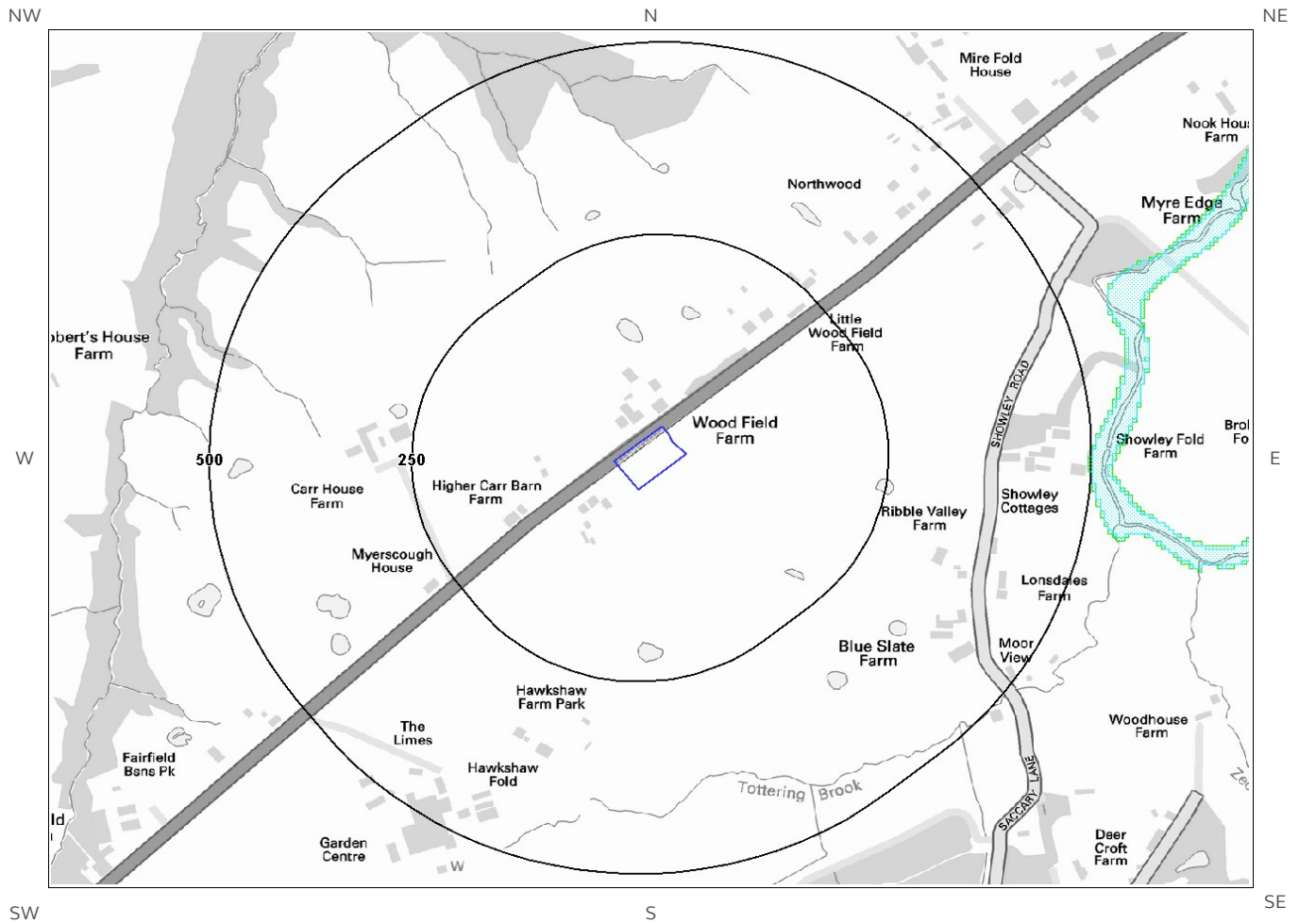
6.11 Surface Water Features

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

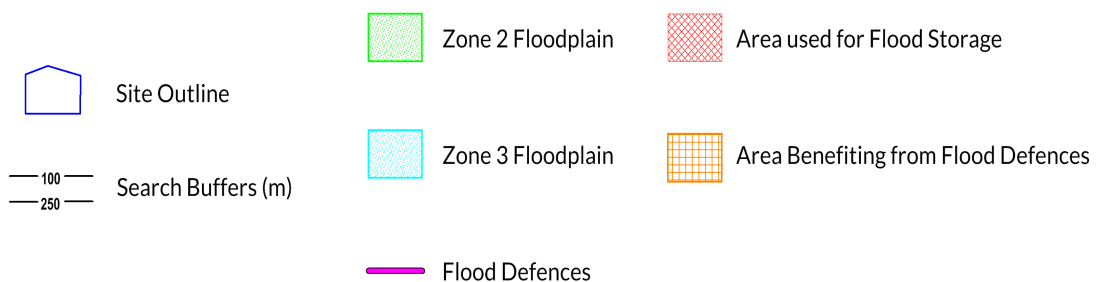
No

Database searched and no data found.

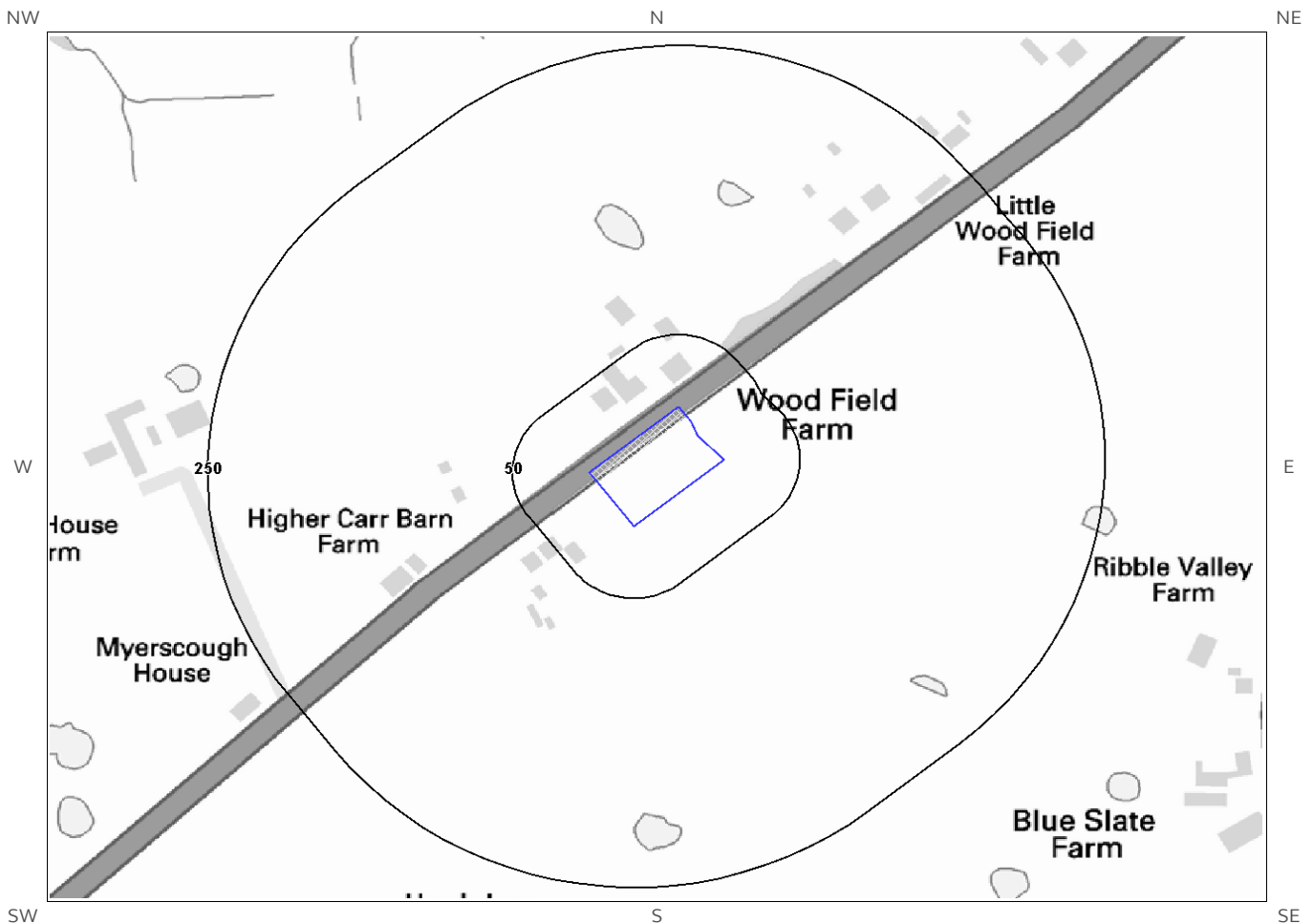
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)



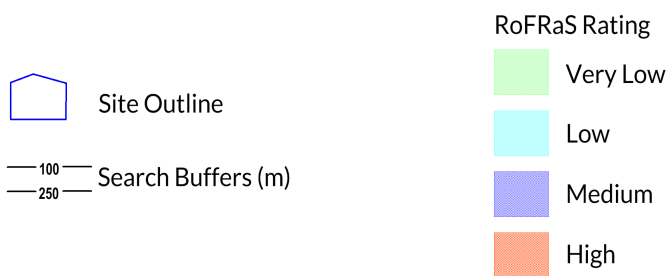
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7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map



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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?

Clearwater Flooding

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

7.7.2 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

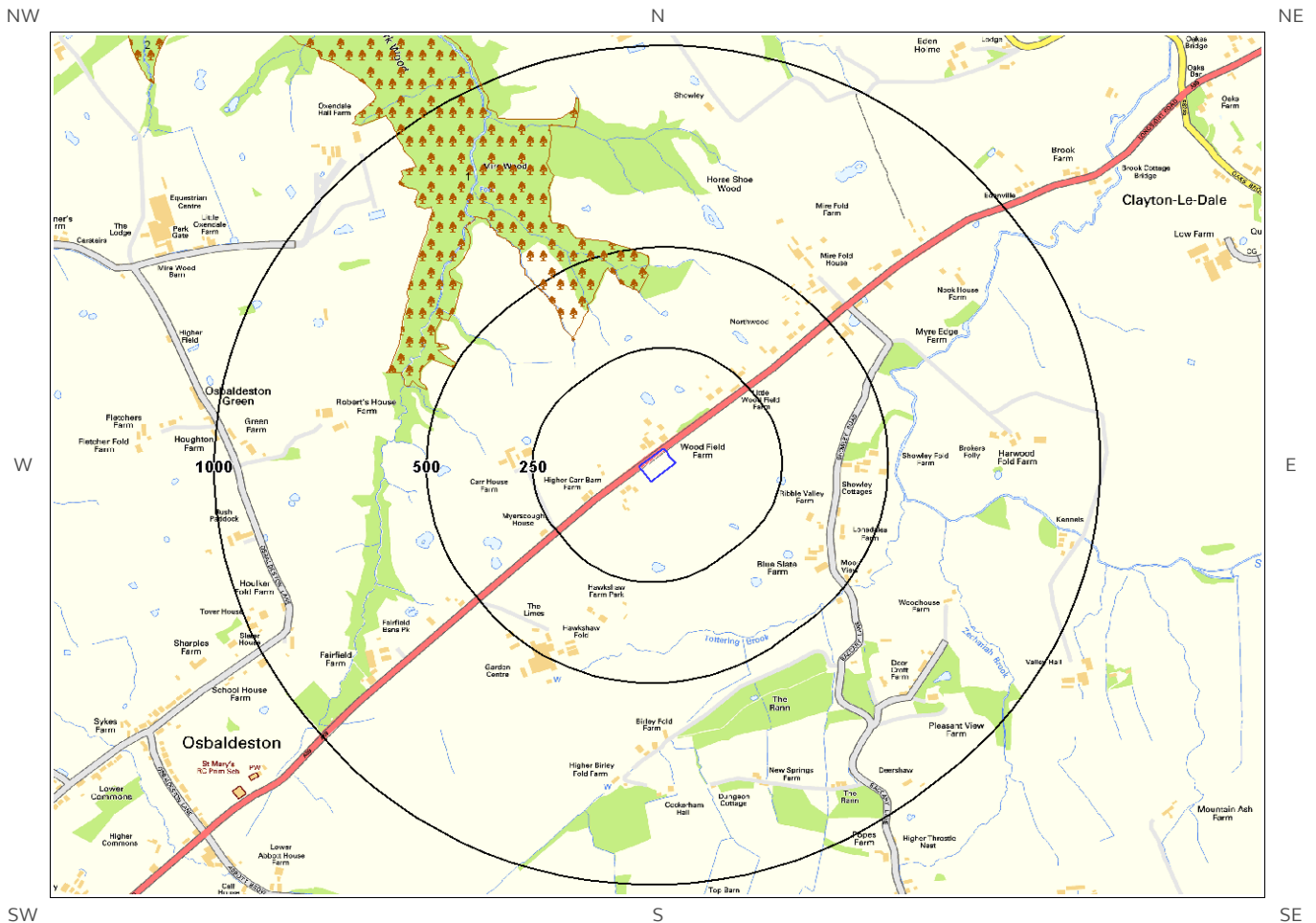
What is the British Geological Survey confidence rating in this result?

Low

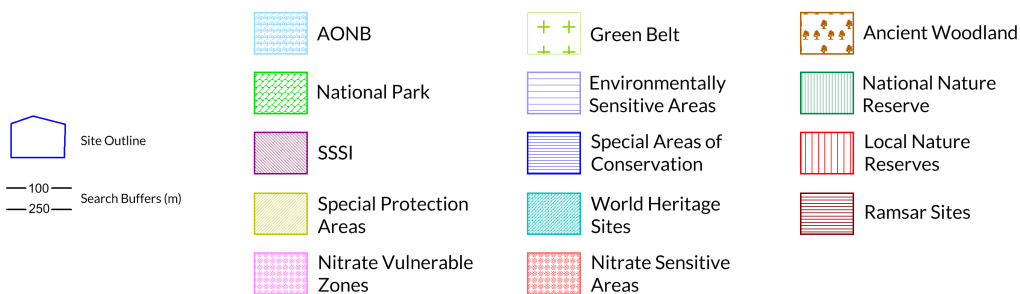
Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

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:

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

0

Database searched and no data found.

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

5

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 |
|-----------|--------------|-----------|-----------------------|-----------------------------------|
| 1 | 341 | NW | UNKNOWN | Ancient and Semi-Natural Woodland |
| 2 | 1488 | NW | UNKNOWN | Ancient and Semi-Natural Woodland |
| Not shown | 1634 | NW | UNKNOWN | Ancient and Semi-Natural Woodland |
| Not shown | 1747 | W | UNKNOWN | Ancient and Semi-Natural Woodland |
| Not shown | 1957 | E | UNKNOWN | Ancient and Semi-Natural Woodland |

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

0

Database searched and no data found.

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:

2

Green Belt data contains Ordnance Survey data © Crown copyright and database right [2015].

| ID | Distance | Direction | Green Belt Name | Local Authority Name |
|-----------|----------|-----------|--|----------------------|
| Not shown | 1537 | S | Liverpool, Manchester and West Yorks Greenbelt | Ribble Valley |
| Not shown | 1956 | E | Liverpool, Manchester and West Yorks Greenbelt | Ribble Valley |

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.

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

9.2 Radon

9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

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

9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

10. Mining

10.1 Coal Mining

Are there any coal mining areas within 75m of the study site? No

Database searched and no data found.

10.2 Non-Coal Mining

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

The following non-coal mining information is provided by the BGS:

| Distance (m) | Direction | Name | Commodity | Assessment of likelihood |
|--------------|-----------|---------------|--------------|---|
| 0.0 | On Site | Not available | Vein Mineral | Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered |

Past underground mine workings are uncommon, localised and of limited area. The rock types present in this area are such that minor mineral veins may be present within them on which it is possible that there have been attempts to work these by underground methods and/or it is possible that small scale underground extraction of other materials may have occurred. All such occurrences are likely to be restricted in size and infrequent. It should be noted, however, that there is always the possibility of the existence of other sub-surface excavations, such as wells, cess pits, follies, air raid shelters/bunkers and other military structures etc. that could affect surface ground stability but which are outside the scope of this dataset. However, if in a coalfield area you should still consider a Coal Authority mining search for the area of interest.

10.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site? No

Guidance: No Guidance Required.

Contact Details

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Web: www.bgs.ac.uk

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

Environment Agency

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Public Health England

Public information access office
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www.coal.gov.uk

Ordnance Survey

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Local Authority

Authority: Ribble Valley Borough Council
Phone: 01200 425111

Web: <https://www.ribblevalley.gov.uk/>

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Public Health
England



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Authority



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