Phase I Preliminary Risk Assessment (PRA)

At

Brymbo Chapels, Wrexham

Client: Wales & West Housing Association Ltd

Reference: 33326-SUT-ZZ-00-RP-G-7101

Date: March 2023

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SUTCLIFFE INVESTIGATIONS

Phase I Preliminary Risk Assessment (PRA)

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Executive Summary

INTRODUCTION	Sutcliffe Investigations were instructed by Wales & West Housing Association Ltd to undertake a Phase I Preliminary Risk Assessment (PRA) of the site known as Brymbo Chapels, Wrexham.
AIMS & OBJECTIVES	The Phase 1 PRA is required to assess the ground based environmental and geotechnical risks, development constraints and liabilities associated with the development of the site, required in support of an application for outline planning. This report constitutes a preliminary investigation as defined in BS10175 and contains the following: • Summary of the information obtained from an Envirocheck Report (Report Reference: 309200671_1_1), which is presented in Appendix A. • A preliminary risk assessment of potential environmental risks associated with the proposed redevelopment of the site to identified receptors, following the methodology of LCRM and their recommendations on contamination reports.
DEVELOPMENT PLANS	The proposed development for the site is for two apartment blocks totalling 16No. apartments with associated infrastructure and soft landscaping. The larger of the two includes a ground floor car park. Plans of the proposed development are presented as Drawing Ref: C484-020 Rev A, and produced by Creu Architecture (January 2023).
SITE LOCATION & DESCRIPTION	The site address is located at High Street, Brymbo, Wrexham, LL11 5BL at National Grid Reference (NGR) 329420, 353850. The site is irregular in shape, 0.12ha in area and can be accessed via High Street to the east of the site. The site topographically declines south-eastward and two church buildings occupy most of the site. Tarmac hardstanding is noted to cover the southern end of the site and the open spaces in the eastern section and north-eastern corner of the site contain overgrown vegetation. The site's eastern boundary adjacent to High Street is marked by a stone wall.
SITE HISTORY	**Onsite** The earliest historical map available is the 1873 – 1874 mapping which shows the site to comprise a rectangular chapel located in the north-eastern section of the site with the fields segmented by fences occupying the rest of the site. Residential properties may also encroach onto the site from the north and west. By 1899 two additional buildings relating to the chapel are noted on-site, one located in northern half of the site and other in the southern half. No further changes are noted until 1963 when the building in the southern half of the site is no longer mapped and has been replaced by another relatively large building. The residential properties potentially encroaching onto the northern and western boundaries of the site are no longer mapped. The 2001 aerial photography shows hardstanding to cover the areas of open space in the eastern section and southern end of the site. No other significant features or changes are noted from the available historical mappings. **Offsite** The earliest historical map (1873 – 1874) shows the site to be surrounded by residential properties, public houses and fields, collectively known as Brymbo. Residential properties are noted immediately north and west of the site, as well as 5m east of the site. Roads are adjacent to the site's eastern and western boundaries and field land is noted 15m west of the site. A map feature indicating a quarry is noted 75m west of the site.

<table>
<tr><td></td><td>A church with a graveyard is noted approximately 120m north-east of the site. Railway tracks are noted 135m east and 160m south of the site. Two ponds are noted 150m east and 190m south-east of the site. An area of multiple large industrial buildings labelled ‘Brymbo Iron Works’ is noted 250m south of the site. Areas of shingle are mapped 110m south, 290m south-east and 320m south-west of the site. Two shafts relating to coal and iron are noted 350m south and 395m west-south-west of the site.
With the exception of progressive development (commercial/residential/industrial), from 1938 onwards, no significant identifiable changes were apparent in the immediate and wider surroundings.</td></tr>
<tr><td>GEOTECHNICAL UNCERTAINTY</td><td>The site has been subject to previous development and therefore, the potential for relic foundations and obstructions cannot be discounted. The ‘Summary of findings’ map provided by the Coal Authority identified a geological fault running through the site.</td></tr>
<tr><td>GEOLOGY</td><td>Artificial
There are no records of artificial ground on-site, however there are 6No. records of artificial ground within 500m of the site, the nearest of which is 107m south of the site and is noted as Made Ground.
Drift
There are no records of superficial deposits on-site. The nearest superficial deposit is Devensian Till located 243m north-west of the site.
Solid
The solid geology for the site is noted as Pennine Lower Coal Measures Formation and Pennine Middle Coal Measures Formation – Mudstone, Siltstone and Sandstone.</td></tr>
<tr><td>HYDROGEOLOGY</td><td>The Bedrock is classified as a Secondary A Aquifer.
No groundwater abstractions have been identified within 500m of the site.</td></tr>
<tr><td>FAULTS</td><td>According to the Envirocheck Report, no faults have been identified within the development site boundary. No action is required in respect to foundation design.
However, the ‘Summary of findings’ map provided by the Coal Authority shows a fault trending NNW/SSE through the centre of the site. Foundation design needs to mitigate the risk associated with possible differential movement.</td></tr>
<tr><td>RADON</td><td>The property is an Intermediate probability radon area (3 to 5% of homes are estimated to be at or above the Action Level). Basic radon protective measures are necessary in the construction of new dwellings or extensions.</td></tr>
<tr><td>COAL MINING</td><td>The site does fall within a coal mining area. Based on the Consultants Coal Mining Report (Report Reference: 51003346721001) the following is of note:
<table>
<tr><th>Coal Mining Issues</th><th>Yes</th><th>No</th><th>Risk Assessment</th></tr>
<tr><td>Underground coal mining (recorded at shallow depths)</td><td>✓</td><td></td><td>Required</td></tr>
<tr><td>Underground coal mining (probable at shallow depths)</td><td></td><td>✓</td><td>Not required</td></tr>
<tr><td>Mine Entries (shafts and adits)</td><td></td><td>✓</td><td>Not required</td></tr>
<tr><td>Coal mining geology (fissures)</td><td>✓</td><td></td><td>Required</td></tr>
<tr><td>Record of past mine gas emissions</td><td></td><td>✓</td><td>Not required</td></tr>
<tr><td>Recorded coal mining surface hazard</td><td></td><td>✓</td><td>Not required</td></tr>
<tr><td>Surface mining (opencast workings)</td><td>✓</td><td></td><td>Required</td></tr>
</table></td></tr>
</table>

HYDROLOGY	The nearest surface water feature is noted 293m south of the site and relates to a pond. No surface abstractions have been identified within 500m of the site.
RISK ASSESSMENT	The Phase I PRA has not highlighted significant areas of concern and therefore, the site is deemed to be Class 3 – Low Risk.
CONCLUSIONS & RECOMMENDATIONS	Based on the findings of the Phase I PRA review, Sutcliffe Investigations do consider there to be significant environmental issues regarding the site. However, there is limited information of the ground for geotechnical properties and as such we would therefore recommend the following sequential works are undertaken: - Submission of this Phase I PRA Report for the benefit of validating the outline planning application. - Commission a Phase II Ground Investigation designed to discharge any contaminated land conditions that may be assigned to the site and allow the design of economic foundation solutions. - Commission a Coal Mining Risk Assessment.

NOTE: The executive summary is an overview of the key findings and conclusions of the report. There may be other information contained in the body of the main report which puts into context the information presented within the executive summary. No reliance should be placed on the executive summary.

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1 Introduction

1.1 Terms of Reference

Sutcliffe Investigations were instructed by Wales & West Housing Association Ltd to undertake a Phase I Preliminary Risk Assessment (PRA) of the site known as Brymbo Chapels, Wrexham.

1.2 Development Proposal & Legislative Context

Development Proposal

The proposed development for the site is for two apartment blocks totalling 16No. apartments with associated infrastructure and hard and soft communal landscaping. The larger of the two includes a ground floor car park. Plans of the proposed development are presented as Drawing Ref: C484-020 Rev A, and produced by Creu Architecture (January 2023).

Legislative Context

The presence of contaminants which may pose a risk to human health and / or the environment is a planning consideration. As part of the planning regime, it needs to be considered whether the site is "suitable for its proposed end use". Planning is concerned with the site's proposed end use, not its current use, where the amount of contamination is required to be low relative to the level of risk.

Section 57 of the Environment Act 1995 adds Part 2A (ss. 78A to 18YC) to the Environmental Protection Act 1990 and contains the legislative framework for identifying and dealing with contaminated land. Where development is undertaken on land which may be affected by contamination, the National Planning Policy Framework, paragraph 120 to 122 considers pollution and remediation. This links the contaminated land regime within the development process.

For there to be a significant risk requiring further investigation a perceived source (contaminant), a receptor (humans, living organisms or property) and a pathway between them must all be present, resulting in a complete contaminant linkage.

In order to assess whether this is the case, background research is required to obtain relevant information about the site and its surroundings and to assess the findings qualitatively. The scope of the assessment examined whether there is the potential for current and historic soil and/or groundwater contamination to be present, both at and in the vicinity of the site, and to assess significance in terms of the potential to pose a risk to human health, controlled waters, building infrastructure and the wider environment and identify any associated potential liabilities.

Part 2A of the Environmental Protection Act 1990 ("Part 2A") provides the legislative framework for the contaminated land regime in England, Wales and Scotland. It provides for contaminated land to be identified and dealt with in a risk-based manner. The Contaminated Land (England) Regulations 2006 (SI 2006/1380) set out provisions for procedural matters under Part 2A. The 2006 regulations have recently been modified with

the introduction of The Contaminated Land (England) (Amendment) Regulations 2012, which came into force on 6th April 2012. This includes an amendment to Regulation 3(c) to take account of the updated definition of "controlled waters" in Section 78A(9) of the Environmental Protection Act 1990. Section 78A(2) of Part 2A of the EPA 1990 defines contaminated land as "land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land, that:

- significant harm is being caused or there is a significant possibility of such harm being caused; or
- pollution of controlled waters is being or is likely to be caused.

Contaminated Land Statutory Guidance published in April 2012 provides for a new four category test which is intended to clarify when land does or does not need to be remediated, where Category 1 is deemed as being high risk and Category 4 as being low risk.

1.3 Previous Studies

Sutcliffe are not aware any previous environmental or geotechnical investigations having been completed on-site.

1.4 Objectives & Scope of Assessment

The Phase 1 PRA is required to assess the ground based environmental and geotechnical risks, development constraints and liabilities associated with the development of the site, required in support of an application for outline planning.

This report will inform the study of any potential contaminated land issues to be identified, assessed and actioned and has been designed to provide sufficient information to satisfy the requirements of National Planning Policy Framework (NPPF) in order to satisfy the aims and objectives of the project.

The report will culminate in the presentation of a Preliminary Conceptual Site Model (CSM) and will include clear robust recommendations for any additional works. These works will be designed to fully assess and mitigate risks, development constraints and abnormals that may be required in support of a detailed planning application and design of detailed foundation options.

This report constitutes a preliminary investigation as defined in BS10175 and contains the following:

- Summary of the information obtained from an Envirocheck Report (Report Ref.: 309200671_1_1), which is presented in Appendix A.
- A preliminary risk assessment of potential environmental risks associated with the proposed redevelopment of the site to identified receptors, following the methodology of Land contamination risk management (LCRM) and their recommendations on contamination reports.
- Recommendations for further investigation/actions if required.

The scope of works was to undertake a Phase I PRA using available information, and to place the site in its environmental context and has included the following:

- A review of available historic maps to determine the land-use history in the context of potentially contaminative activities;
- A review of environmental data relating to the site and its surroundings using a proprietary third-party environmental database;
- Desk-based assessment of site geology, hydrogeology and hydrology from published mapping and web-based sources to determine the site's environmental setting and sensitivity;
- A web-based search of the Environment Agency (EA) website and other freely available sources of information to identify any potential issues relating to the site and surrounding areas; and
- Provision of a qualitative contaminated land risk assessment based on Source- Pathway-Receptor as per current best practice contained in LCRM.

All other information in this report has been obtained via public sources.

2 Environmental Review

2.1 Introduction

The information presented within this chapter was compiled based on a review of an Envirocheck Report (Report Reference: 309200671_1_1), presented in Appendix A.

2.2 Site Location & Setting

The site address is located at High Street, Brymbo, Wrexham, LL11 5BL at National Grid Reference (NGR) 329420, 353850 and is approximately 5km north-west from the centre of Wrexham.

Location plans of varying scales are presented as *Figures 1 & 2* and an Aerial Photograph is presented as *Figure 3*.

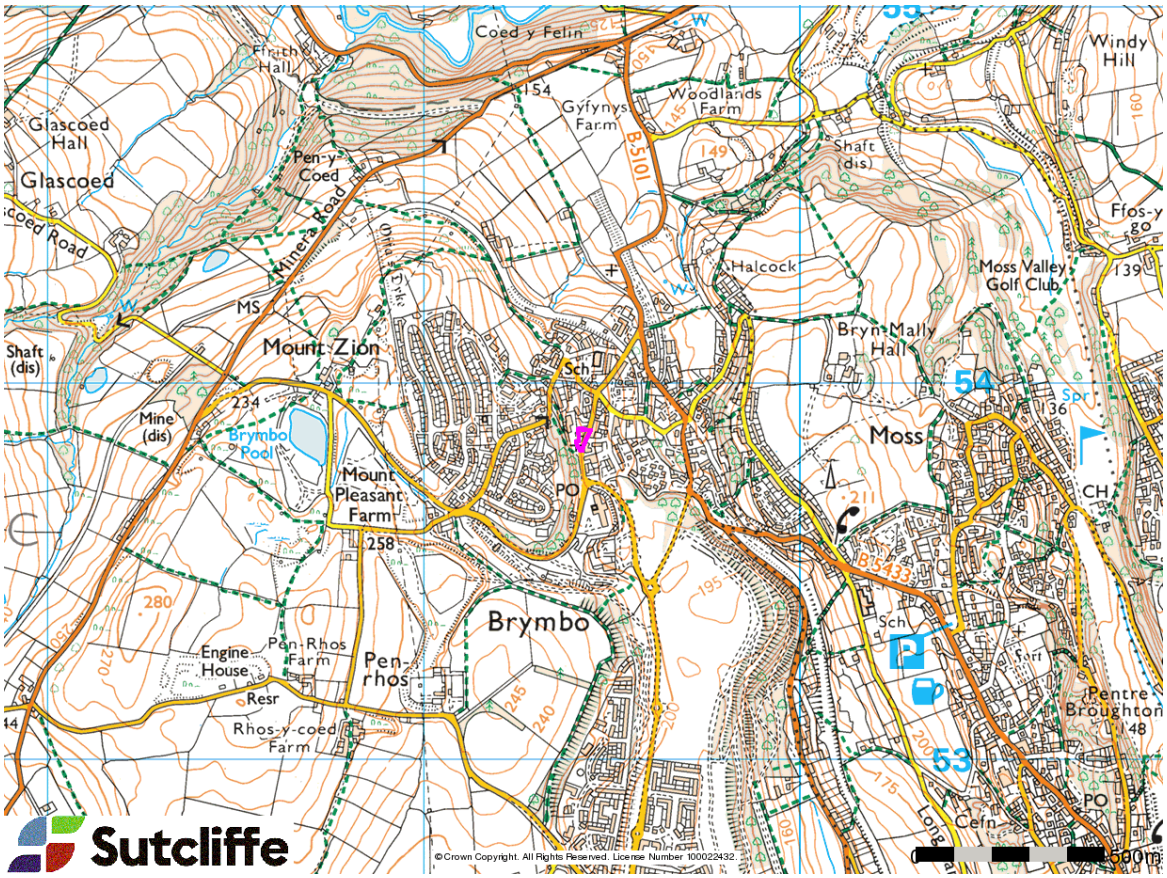


Figure 1: General Location of Site

2.3 Site Description & Walkover

The site is irregular in shape, 0.12ha in area and can be accessed via High Street to the east of the site. The site topographically declines south-eastward and two church buildings occupy most of the site. Tarmac hardstanding is noted to cover the southern end of the site and the open spaces in the eastern section and north-eastern corner of the site contain overgrown vegetation. The site's eastern boundary adjacent to High Street is marked by a stone wall.

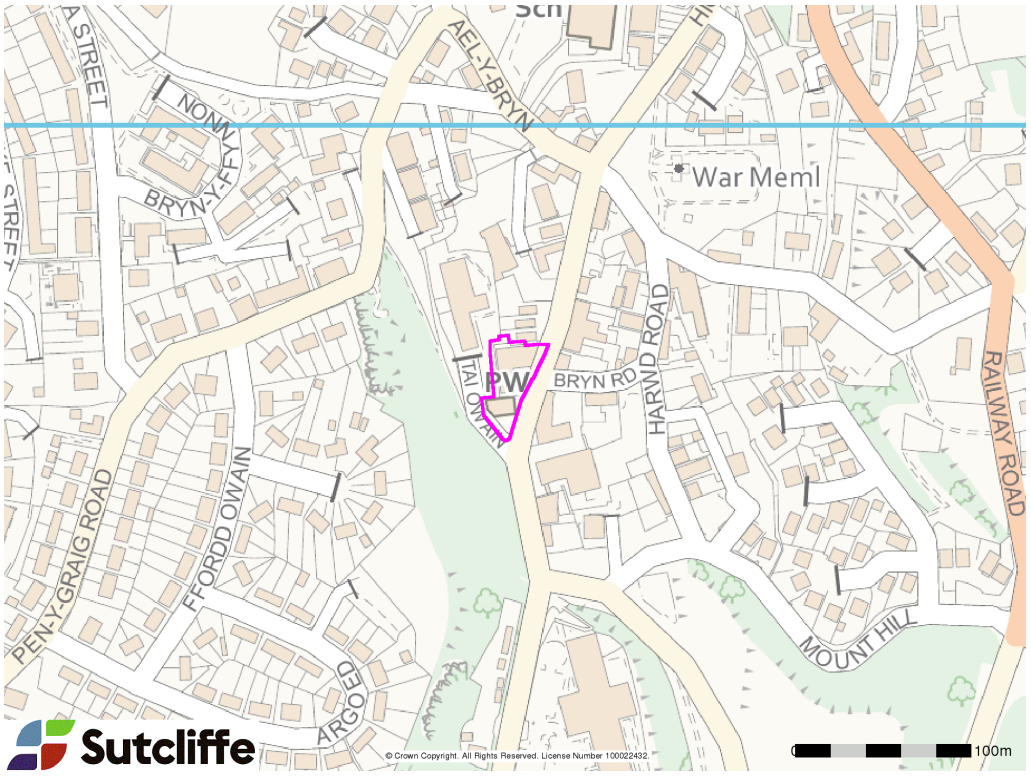


Figure 2: General Site Layout

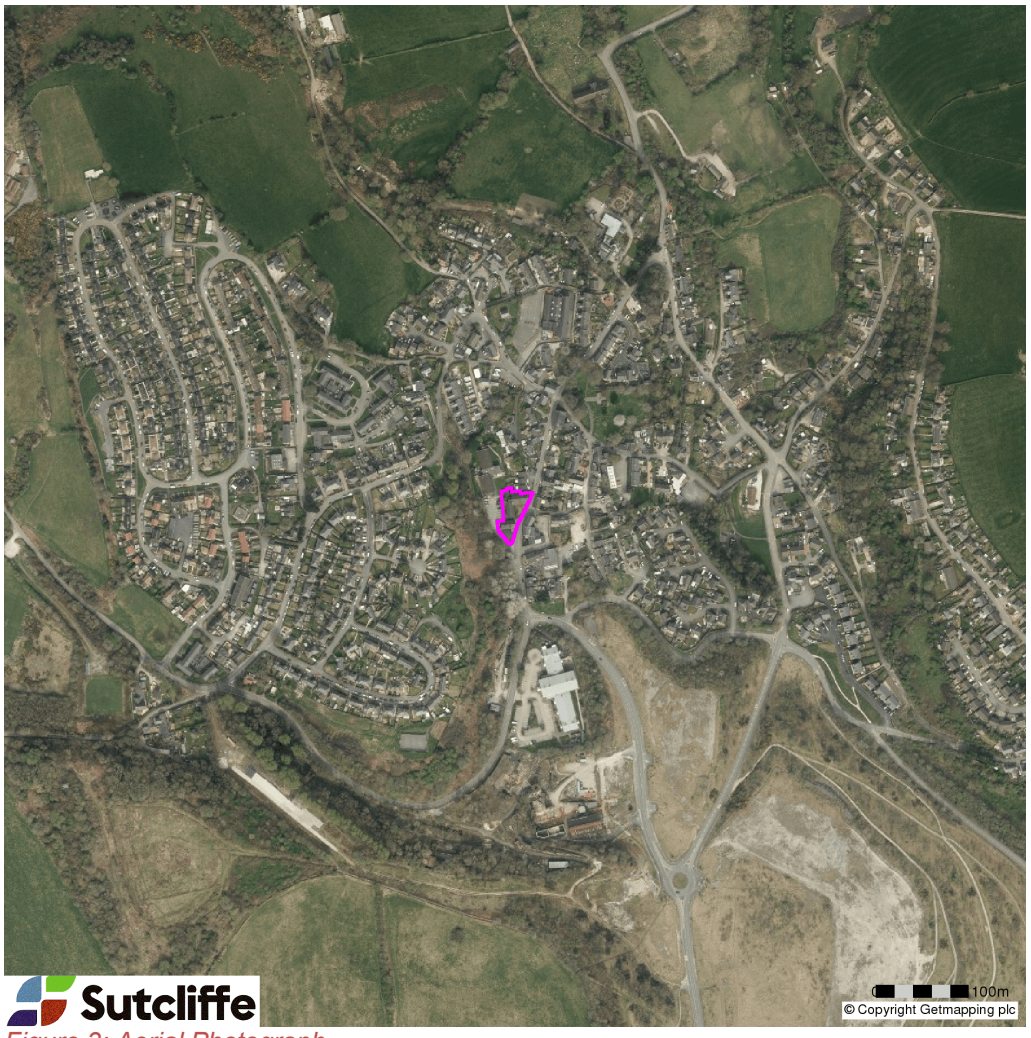


Figure 3: Aerial Photograph

2.4 Adjacent Land Uses

Table 2.1 summarises the adjacent land uses.

Table 2.1: Adjacent Land Uses

Direction	Adjacent Land Use
North	Residential
East	Residential
South	Residential
West	Care Home (Sheltered Housing) / Woodland

2.5 Services

Electric

Currently awaiting service plans.

Gas

No Wales & West Utilities assets are noted on-site, however a low pressure gas main is noted adjacent to the site's eastern boundary, running along High Street.

Water

Currently awaiting service plans.

BT

No BT assets are noted on-site, however BT cables are noted east and west of the site. A BT box is noted east of the site and a planned BT pole is located a few metres south-west of the site.

Underground Pipelines and Transmission Assets

A search of the Linesearch database was undertaken on 28th March 2023. This database lists pipelines owned and/or operated by over 40No. pipeline and transmission operators, but not all operators are registered.

According to the database, there are 2No. underground pipelines or transmission assets on the site or within a 25m search radius, these relate to SP Energy Networks and Wales & West Utilities.

Service plans are presented in Appendix B.

2.6 Site History

Historical maps were obtained and reviewed by Sutcliffe Investigations to determine the historical development of the target site. These are presented in Appendix A. This enabled an assessment to be made of the potential for contamination associated with former activities, both on-site and in the surrounding areas.

Onsite

The earliest historical map available is the 1873 – 1874 mapping which shows the site to comprise a rectangular chapel located in the north-eastern section of the site with the fields segmented by fences occupying the rest of the site. Residential properties may also encroach onto the site from the north and west. By 1899 two additional buildings relating to the chapel are noted on-site, one located in northern half of the site and other in the southern half.

No further changes are noted until 1963 when the building in the southern half of the site is no longer mapped and has been replaced by another relatively large building. The residential properties potentially encroaching onto the northern and western boundaries of the site are no longer mapped.

The 2001 aerial photography shows hardstanding to cover the areas of open space in the eastern section and southern end of the site. No other significant features or changes are noted from the available historical mappings.

A detailed review of the historical development of the site is presented in Appendix C.

Offsite

The earliest historical map (1873 – 1874) shows the site to be surrounded by residential properties, public houses and fields, collectively known as Brymbo. Residential properties are noted immediately north and west of the site, as well as 5m east of the site. Roads are adjacent to the site's eastern and western boundaries and field land is noted 15m west of the site. A map feature indicating a quarry is noted 75m west of the site.

A church with a graveyard is noted approximately 120m north-east of the site. Railway tracks are noted 135m east and 160m south of the site. Two ponds are noted 150m east and 190m south-east of the site. An area of multiple large industrial buildings labelled 'Brymbo Iron Works' is noted 250m south of the site. Areas of shingle are mapped 110m south, 290m south-east and 320m south-west of the site. Two shafts relating to coal and iron are noted 350m south and 395m west-south-west of the site.

By 1899 an area of shingle noted 110m south of the site has been replaced by industrial buildings. A large industrial building with connecting railway tracks, related to Brymbo Iron Works, is noted 300m south-east of the site. The pond located 150m east of the site is no longer mapped.

The 1938 – 1954 mapping shows significant residential expansion 70m west-south-west of the site and significant industrial expansion 265m south-east of the site. By 1963 residential properties noted immediately north and west of the site are no longer mapped, significant residential expansion is noted 230m north-west of the site and two schools are mapped roughly 170m north-east of the site.

By 1963 significant residential expansion is noted 270m west of the site. By 1984 a large building of unknown use, later established to be a care home, is noted 10m north-west of the site and Works are noted 15m north-east of the site. By 1993 a residential property immediately north of the site is no longer mapped.

By 1994 multiple large industrial buildings noted 270m south-east of the site are no longer mapped. By 1996 a residential property is noted 15m north of the site and another large industrial building noted 260m south-east of the site is no longer mapped.

The 2001 aerial photography shows vehicle parking immediately west of the site. By 2006 residential properties are noted immediately north of the site and the pond noted 190m south-east of the site is no longer mapped.

Apart from a large building of unknown use noted 120m south of the site by the latest map dated 2022, no other significant features or changes are noted from the available historical mappings.

A detailed review of the historical development of the surrounding land uses is presented in Appendix C.

2.7 Environmental Database

A commercial database search (provided by Envirocheck) was obtained to provide further information regarding the site and the surroundings. Relevant information and records are summarised below:

Contaminated Land Entries

The database has no contaminated land entries within 500m of the site.

Environmental Permitted Activities

According to the database, there are no current Local Authority Integrated Pollution Prevention and Controls. However, there is 1No. Local Authority Pollution Prevention and Control within 500m of the site, the details of which are provided hereunder:

Table 2.2: Environmental Permitted Activities

Distance / Direction (<500m)	Name	Description	Status
255m S	Clay Colliery Ltd	PG3/5 Coal, coke and coal product processes	Authorisation revoked

Hazardous Substances Sites

According to the database, there are no Control of Major Accident Hazards (COMAH) registered sites, no Planning Hazardous Substances Consents and no records of Notification of Installations Handling Hazardous Substances (NIHHS) sites within 500m of the site.

Substantiated Pollution Incident Register

According to the database, there have been no substantiated pollution incidents within 500m of the site.

Landfill Sites

According to the Envirocheck Report there are;

- 1No. Registered Landfill sites within 500m of the site. It is located 222m north-west of the site, the licence holder is Brymbo & Broughton British Legion, authorised waste includes bricks/rubble, quarry wastes and steel slag. The licence of which has lapsed.
- 3No. Historic Landfill sites within 500m of the site, the details of which are provided below in *Table 2.3*.
- No BGS Recorded Landfill sites within 500m of the site.
- No Local Authority Recorded Landfill sites within 500m of the site.

Table 2.3: Historic Landfill Sites

Distance / Direction (<500m)	Licence Holder	Name	Specified Waste Type	Last Input Date
92m S	Brymbo Steel Works Ltd	Works Bank	Deposited Waste included Industrial Waste	Not Supplied
207m NW	British Legion Social Club	British Legion	Deposited Waste included Inert, Industrial and Household Waste	31/12/1982
420m SW	Brymbo Steel Works Limited	Brymbo Steelworks	Deposited Waste included Industrial and Special Waste, and Liquid Sludge	31/12/1985

Infilled Land

There are 3No. records of Potentially Infilled Land (Non-Water) within 500m of the site, the details of which are presented hereunder:

Table 2.4: Infilled Land (Non-Water)

Distance / Direction (<500m)	Use	Year
63m W	Unknown Filled Ground (Pit, quarry etc)	1991
296m S	Unknown Filled Ground (Pit, quarry etc)	1991
319m SW	Unknown Filled Ground (Pit, quarry etc)	1991

There is 1No. record of Potentially Infilled Land (Water) within 500m of the site, the details of which are presented hereunder:

Table 2.5: Infilled Land (Water)

Distance / Direction (<500m)	Use	Year
192m SE	Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	1963

Waste Management Facilities

The database has recorded no Registered Waste Transfer Sites and no Registered Waste Treatment or Disposal Sites within 500m of the site.

The database has recorded 1No. Licensed Waste Management Facility within 500m of the site, the details of which are presented hereunder:

Table 2.6: Licensed Waste Management Facilities

Distance / Direction (500m)	Licence Holder	Authority	Site Category	Licence Status
92m S	Brymbo Steel Works Limited	Natural Resources Wales	Industrial Waste Landfills	Inactive

Radioactive Materials

According to the Envirocheck Report, there are no authorisations for radioactive substances within 500m of the site.

Fuel Stations

According to the database, there are no petrol or fuel station entries within 500m of the site.

Contemporary Industrial Land Uses

According to the database, there are 9No. entries located within 500m of the site, with 6No. located within 250m of the site, the details of which are presented hereunder:

Table 2.7: Contemporary Industrial Land Uses

Distance / Direction (<500m)	Name	Classification	Status
21m NE	Impeckable Nest Boxes & Bird Feeders	Glass Fibre Manufacturers	Active
73m E	Lemaitre Vascular Ltd	Medical Equipment Manufacturers	Inactive
84m NE	Lemaitre Vascular	Medical Equipment Manufacturers	Inactive
157m E	G P Laundry Express	Laundries & Launderettes	Inactive
166m S	N K S Drawing Office Services	Office Equipment Servicing & Maintenance	Inactive
166m S	2 Evolv	Digital Printing	Inactive

2.8 Historical Contamination Potential

Site

Historical maps have shown that the site comprised a chapel and fields in 1873, with additional chapel buildings noted on-site by 1899. However, the building in the southern half of the site was no longer mapped by 1963 but was replaced by another relatively large building.

With the exception of made ground potentially being present on-site, the potential for significant contamination to have arisen at the site as a result of the current and former usage on-site is considered to be low. However, the possibility of contamination albeit likely to be localised cannot be discounted.

Surrounding Area

No potentially significant contaminative activities were identified as having taken place within the immediate vicinity of the site. However, significant contaminative activities were

identified as having taken place within 250m of the site, notably the old quarry north-west of the site and Coal, Iron and Steel Works as well as areas of historic shingle south of the site.

Therefore, the potential for off-site sources of contamination to impact the site is considered low – moderate.

3 Environmental Setting

3.1 Introduction

Desk-based research of the local geology, hydrogeology, hydrology and ecology was carried out in order to establish the potential for migration of contamination onto or away from the site, and to assess the surface water and groundwater sensitivity of the surrounding area. Information was obtained from a number of sources, namely:

- Inspection of the British Geological Survey (BGS) GeoIndex Onshore Viewer;
- Inspection of the MAGIC interactive map service;
- A review of online web-based information searches;
- A review of previous site investigation reports pertaining to the site; and,
- A review of publicly available information.

3.2 Soils Chemistry

The environmental database also presents an estimation of the rural background soil chemistry within the site area.

Table 3.1: Soil Chemistry

Contaminant	Concentration (mg/kg)
Arsenic	<15
Cadmium	<1.8
Chromium	60 – 90
Lead	100 – 200
Nickel	15 – 30

Reference to the data presented suggests that the majority of metals concentrations are generally anticipated to be below current Tier 1 Assessment Criteria in relation to human health effects.

3.3 Geology

According to the BGS GeoIndex Onshore Viewer and the relevant British Geological Survey (BGS) Solid and Drift Sheets 121 Wrexham (1993) at a scale of 1:50,000 the following geological succession has been identified (Appendix A).

Artificial Ground

There are no records of artificial ground on-site, however there are 6No. records of artificial ground within 500m of the site, the nearest of which is 107m south of the site and is noted as Made Ground.

Superficial Geology

There are no records of superficial deposits on-site. The nearest superficial deposit is Devensian Till located 243m north-west of the site.

Solid Geology

The solid geology for the site is noted as Pennine Lower Coal Measures Formation and Pennine Middle Coal Measures Formation – Mudstone, Siltstone and Sandstone. Cefn Rock – Sandstone, is noted 28m west of the site.

Table 3.2: Geology Summary

Strata	Description	Soil / Rock Type
Artificial Ground	No records on-site	N/a
Drift	No records on-site	N/a
Solid	Pennine Lower / Middle Coal Measures Formation	Mudstone, Siltstone & Sandstone

Faults

According to the Envirocheck Report, no faults have been identified within the development site boundary. No action is required in respect to foundation design.

However, the 'Summary of findings' map provided by the Coal Authority shows a fault trending NNW/SSE through the centre of the site. Foundation design needs to mitigate the risk associated with possible differential movement.

According to the Envirocheck Report, 1No. fault is noted within 250m of the site, it is located 28m west of the site and is trending NNW/SSE. 2No. rock segments are also noted within 250m of the site, the nearest of which is 128m east of the site.

British Geological Society (BGS) Logs / Records

The BGS have recorded 7No. historical boreholes carried out on the land immediately west and north-west of the site. The ground conditions logged generally consisted of Made Ground from ground level to 1.15m bgl, with a maximum depth of 2.13m, followed by Natural Ground down to an average depth of 3.04m, with a maximum depth of 4.57m. Made Ground comprised brick, ash and stone, and Natural Ground comprised weathered sandstone with hard and soft bands. No groundwater was encountered in any of the boreholes.

There are 4No. BGS Recorded Mineral sites within 500m of the site, the details of which are provided below:

Table 3.3: BGS Recorded Mineral Sites

Distance / Direction (<500m)	Name	Type	Geology	Commodity	Status
57m W	Mount Pleasant Coal Pit	Opencast	Cefn Rock	Sandstone	Ceased
338m S	Brymbo Colliery	Underground	Pennine Lower Coal Measures Formation	Coal – Deep	Ceased
409m W	Mount Pleasant Coal Pit	Underground	Pennine Coal Measures Group	Coal – Deep	Ceased
486m SW	Mount Pleasant Coal Pit	Underground	Pennine Coal Measures Group	Coal – Deep	Ceased

Ground Stability

Table 3.4 below summarises the natural hazards information presented in the Envirocheck Report.

Table 3.4: Potential Natural Hazards

Natural Hazard	Hazard Potential
Shrink - Swell Clays	Very Low
Landslides	Moderate
Soluble Rocks	No Hazard
Compressible Deposits	No Hazard
Collapsible Deposits	Very Low
Running Sands	No Hazard

3.4 Coal Mining

The site does fall within a coal mining area. Based on the Consultants Coal Mining Report (*Report Reference: 51003346721001)* the following is of note:

- 3No. Past Underground Mining have been noted within the report, the details of which are provided below.

Table 3.5 Past Underground Mining

Seam	Depth (m bgl)	Direction of Working	Dip (°)	Extraction Thickness (cm)
Wall and Bench	102	Beneath Property	11.3	70
Quaker	124	South	8.0	100
Wall and Bench	139	South-west	8.1	50

- No Probable Unrecorded Shallow Workings are recorded.
- No Spine Roadways are recorded at shallow depth.
- There are no known coal mining entries on or within 100m of the site.
- The following Abandoned Mine Catalogue Numbers are noted intersecting with the site boundary.

Table 3.6 Abandoned Mine Catalogue Numbers

NW1485	NW1483	NW1425
6286	NW1481	11619
NW1482	PO0	11620

- No Outcrops are recorded on-site.
- Although no faults are mapped on-site from the Envirocheck Report, the 'Summary of findings' map provided by the Coal Authority shows a fault trending NNW/SSE through the centre of the site.
- 3No. opencast mines are recorded within 500m of the site boundary, the nearest of which is approximately 380m south of the site.
- No records of Coal Mining subsidence within 50m of the site boundary.

- There is no record of mine gas emissions recorded within 500m of the site boundary.

The potential risks to the development of the site from historic coal workings and remediation to these features as identified within the Coal Authority Report are summarised below in *Table 3.7*.

Table 3.7: Potential Coal Mining Issues

Coal Mining Issues	Yes	No	Risk Assessment
Underground coal mining (recorded at shallow depths)	✓		Required
Underground coal mining (probable at shallow depths)		✓	Not required
Mine Entries (shafts and adits)		✓	Not required
Coal mining geology (fissures)	✓		Required
Record of past mine gas emissions		✓	Not required
Recorded coal mining surface hazard		✓	Not required
Surface mining (opencast workings)	✓		Required

A full copy of the Coal Authority Mining Report can be found in Appendix D.

3.5 Radon

The property is an Intermediate probability radon area (3 to 5% of homes are estimated to be at or above the Action Level). Basic radon protective measures are necessary in the construction of new dwellings or extensions.

3.6 Hydrogeology

Groundwater protection policy uses aquifer designations that are consistent with the Water Framework Directive.

These designations reflect the importance of aquifers not only in terms of groundwater as a resource (drinking water supply) but also their role in supporting surface water flows and wetland ecosystems.

Types of aquifer designations are presented in *Table 3.8*, with the designations assigned to the underlying strata of the site in *Table 3.9* hereunder:

Table 3.8: Aquifer Designations

Designation	Description
Principal Aquifer	Layers of rock or drift deposits that have high intergranular and / or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and / or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifer.
Secondary A Aquifer	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 formally classified as minor aquifers.
Secondary B Aquifer	Predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers.

Designation	Description
Secondary (Undifferentiated) Aquifer	Cases where it has not been possible to attribute either category A or B to a rock type. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.
Unproductive Aquifer	Rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

Table 3.9: Hydrogeology Summary

Strata	Description	Soil / Rock Type	Designation
Bedrock	Pennine Lower / Middle Coal Measures Formation	Mudstone, Siltstone & Sandstone	Secondary A Aquifer

The Envirocheck Report indicates that the site is not located within a Groundwater Source Protection Zone (SPZ).

There are no groundwater abstraction points within 1000m of the site.

3.7 Hydrology

The following is also of note:

- The nearest surface water feature is noted 293m south of the site and relates to a pond.
- There are 3No. recorded pollution incidents to controlled waters within 500m of the site, the details of which are provided below in *Table 3.10*.
- There are no surface water abstractions within 500m of the site.
- There are no biological or chemical quality records within 500m of the site.

Table 3.10: Recorded Pollution Incidents

Distance / Direction (<500m)	Authority	Pollutant	Incident Severity	Incident Date
305m SE	Environment Agency, Welsh Region	Farm Land Run-Off	Category 2 - Significant Incident	20/04/1992
427m N	Environment Agency, Welsh Region	Oils - Diesel (Including Agricultural)	Category 3 - Minor Incident	23/05/1995
438m S	Environment Agency, Welsh Region	Oils - Diesel (Including Agricultural)	Category 3 - Minor Incident	31/05/1996

3.8 Flood Risk

According to the Envirocheck Report, the site is not within 250m of an area at risk from extreme flooding from rivers or sea without defences. The site is also at low risk of flooding from surface water.

According to the BGS Flood GFS Data map, the site is situated within an area where the potential for groundwater flooding to occur at the surface is considered unlikely.

3.9 Sensitive Land Uses

Ecological Receptors

According to the database, there are 3No. Sensitive Land Uses within 500m of the site, the details of which are provided below:

- 2No. areas of Ancient Woodland are located 350m and 388m south of the site, the names of both are not supplied.
- 1No. Site of Special Scientific Interest is noted 340m south of the site and it refers to Coedwig Ffosil Brymbo Fossil Forest.

Significance of Environmental Setting

The significance of the environmental setting is considered by Sutcliffe Investigations to be as follows:

Table 3.11: Environmental Setting Summary

Environmental Setting	Sensitivity	Rationale
Groundwater	Low	The site is situated in an area of low sensitivity with respect to groundwater resources due to the absence of an impermeable superficial deposit and the presence of bedrock Secondary A Aquifer beneath the site. However, this sensitivity is reduced by the absence of any abstractions (sensitive or otherwise) within the immediate vicinity of the site.
Surface Water	Low	With respect to surface water resources, the site is considered to be located in a low sensitivity setting.
Flood Risk	Low	The site is not within 250m of an area at risk of extreme flooding from rivers or sea without defences.
Sensitive Land Uses	Low	With respect to sensitive land uses such as protected habitats, protected sites, protected buildings and sensitive receptors, the site is considered to be located in a low sensitive setting.

4 Preliminary Qualitative Risk Assessment

4.1 Preliminary Conceptual Site Model (CSM)

A conceptual model is an essential element of any site-specific environmental risk assessment. In this context, they are often simple representations of the hypothesised relationships between sources, pathways and receptors.

For the purpose of this report, a basic conceptual model has been developed based on the principles of LCRM and interpretation of information gathered during the Phase I review. Thus, this allows the identification of potential contaminant linkages and whether these linkages have the potential to comprise significant harm and/or pollution of controlled waters in relation to the site.

Based on this interpretation, the implications for potential liability associated with soil or water contamination at the site can be evaluated.

- **SOURCES** – the identification of contaminants within the soils and groundwater that represent potential pollution sources;
- **PATHWAYS** – the identification of the potential exposure mechanisms and migration pathways from the potential sources; and
- **RECEPTORS** – the identification of the potential receptors that could be sensitive to harm if exposed to these pollution sources.

Collectively, each of these scenarios would be considered a potential pollutant linkage that may require further assessment.

A preliminary conceptual model is presented below (*Table 4.5*) in accordance with the guidance outlined within LCRM.

4.2 Identification of Potential Sources

Based on the information from the desk study, historical maps, published information, and a site walkover a summary of potential contaminant sources is provided in *Table 4.1*.

Table 4.1: Potential Sources

Ref.	Potential Sources	Potential Contaminants
S1 (On-site)	Demolished building	All metals, hydrocarbons, PAHs, oils, asbestos and localised ground gas.
S2 (Off-Site)	Demolished buildings / Historic quarrying activity / Hydrocarbon leak uphill from site	All metals, hydrocarbons, PAHs, oils, asbestos and localised ground gas

S1 (On-site)

Made Ground associated with the existing structures and historic buildings is anticipated below site. By its nature, Made Ground can contain a wide range of potentially contaminated material which may also generate leachate. Thickness of the Made Ground is anticipated to be relatively limited, but is likely to be greater in the southern half of the site where a building was demolished.

S2 (Off-site)

Made Ground associated with demolishment of past buildings is anticipated to be immediately north and west of the site. Again, by its nature, Made Ground can contain a wide range of potentially contaminated material which may also generate leachate.

A historic quarry was mapped west / north-west of the site, water run-off from the quarry operations may have contained solids that could have caused water pollution. Since the site is topographically lower than the old quarry, migration of polluted water to the site could have been a possibility.

Historical aerial photography show vehicle parking immediately north-west, which is also at a greater topography. While the potential for hydrocarbon contamination to migrate downhill towards the site is thought possible, volumes expected are anticipated to be relatively low, and as such are considered unlikely to pose a viable human health risk from any vapours released for future site users.

4.3 Potential Exposure Pathways

Exposure pathways are the potential routes and mechanisms by which potential on-site sources could be linked to the identified potential receptors and thereby expose them to potential harm.

The following potential exposure pathways have been identified at the site:

Table 4.2: Potential Exposure Pathways

Ref.	Pathway	Description
P1	Direct contact with potential contaminants.	Dermal absorption, ingestion and inhalation of contaminants via direct contact. Construction workers may come into contact during the site works, however this will be for a short time and therefore limited exposure will occur. PPE can be used and worn as a precaution to reduce the risk.
P2	Ingestion of potential contaminants.	
P3	Inhalation of potential contaminants.	
P4	Leaching and migration of contaminants.	Leaching of possible contaminants could migrate into the underlying Secondary A Aquifer via shallow groundwater. On-site drainage is also at risk from shallow contamination, if present.
P5	Vertical and lateral migration of ground gases / vapours.	There is the potential for contaminants to be present on the site, which could generate ground gas & vapours on site.

P1 – P3 (Direct contact)

Soft communal landscaping is planned within the proposed development. If Made Ground containing contaminative material is present onsite, human health risks to future site users may be present if such Made Ground is left in situ in the planned soft landscaped areas.

P4 (Leaching & Migration)

Made Ground and other sources of potential contamination as previously discussed within section S1 and S2 may contain leachable contaminants.

Groundwater on-site is anticipated to be a water table, and in hydraulic conductivity with the underlying Bedrock Aquifer due to the lack of an impermeable superficial deposit. As such, downward and lateral migration of any potential leachates generated is considered likely.

Historic hydrocarbon spills from car parking immediately off-site are considered possible which could migrate, however, volumes anticipated would be unlikely to be significant to impact controlled waters.

P5 (Migration of ground gas / vapours)

Made Ground thicknesses are expected to be relatively limited given the site's development history. As such, it is considered unlikely that a thickness of Made Ground capable of generating significant thickness of permanent gases will be present, and consequently the risks to human health from permanent gases generated on-site is considered to be low.

While the potential for hydrocarbon contamination on-site from off-site sources is thought possible, volumes expected are anticipated to be relatively low, and as such are considered unlikely to pose a viable human health risk from any vapours released for future site users.

4.4 Potential Receptors

Based on the site's environmental setting and the proposed future end use of the area following redevelopment, the following potential receptors have been identified:

Table 4.3: Potential Receptors

Ref.	Receptor	Description
R1	Current & future site users	Site users; personnel, general workers and maintenance workers,
R2	Construction Workers	Contractors working on the development of the site. Construction workers, maintenance workers or other personnel who may be directly exposed to contaminated materials in the course of their activities).
R3	Controlled Waters	Secondary A Aquifer and on-site drainage
R4	Adjacent Site Users	Adjacent site users. Third-party land (*i.e.* the possibility of contamination migrating off-site onto third party land *via* contaminated groundwater, surface water run-off).
R5	Infrastructure / Buried services	Proposed buildings and buried services

NOTE: ground workers (i.e. If the site were redeveloped, any associated activities may bring site personnel and construction workers into contact with potentially contaminative materials, however, it is considered that the risks to workers will be short term and could be controlled by safe working procedures.

4.5 Potential Contaminant Linkages

In order for there to be a plausible contaminant linkage there must be a source, receptor and pathway and a feasible linkage between them (a contaminant linkage).

Consequently, even where a contaminant is identified, if there is no pathway for the contamination to reach a receptor, or no receptor then there can be no significant risk and remedial actions are not required.

Central to this risk assessment process is the development of a 'conceptual model'. This is a descriptive and/or pictorial representation of the area of potential contamination, the surrounding environment and the processes acting on the contaminants by which they can move and come into contact with receptors (*e.g.* by leaching and migration into groundwater).

Production of a conceptual model requires an assessment of risk to be made. Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences.

Therefore, in order to assess risk both the likelihood and the consequences of an event must be taken into account.

This report adopts the methodology for risk evaluation presented in CIRIA report C552 'Contaminated Land Risk Assessment – A Guide to Good Practice', 2001.

The method is qualitative and involves the classification of the following:

- The magnitude of the potential severity or consequence of the risk occurring (*Table 4.4*);
- The magnitude of the likelihood or probability of the risk occurring (*Table 4.5*);
- Once the likelihood of an event occurring and its severity have been classified, a risk category can be assigned (*Table 4.6*).

Table 4.4: Classification of consequence

Classification	Definition
Severe	Acute risks to human health, catastrophic damage to buildings/property, major pollution of controlled waters.
Medium	Chronic risk to human health, pollution of sensitive controlled waters, significant effects on sensitive ecosystems or species, significant damage to buildings or structures.
Mild	Pollution of non-sensitive waters, minor damage to buildings or structures.
Minor	Requirement for protective equipment during site works to mitigate health effects, damage to non-sensitive ecosystems or species.

Table 4.5: Classification of Probability

Classification	Definition
High Likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage, and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term
Low Likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place and is less likely in the shorter term.
Unlikely	There is a pollution linkage, but circumstances are such that it is improbable that an event would occur even in the very long term.

Table 4.6: Risk Assessment Matrix

Consequence					
Severe	Medium	Mild	Minor		
Very High Risk	High Risk	Moderate Risk	Moderate / Low Risk	High Likelihood	Probability
High Risk	Moderate Risk	Moderate / Low Risk	Low Risk	Likely	
Moderate Risk	Moderate / Low Risk	Low Risk	Very Low Risk	Low Likelihood	
Moderate / Low Risk	Low Risk	Very Low Risk	Very Low Risk	Unlikely	
Low Risk	Very Low Risk	Very Low Risk	Very Low Risk	Negligible Likelihood	

Sutcliffe has devised a conceptual model based on the information obtained to date through the desk-based study and future residential usage of the site. This is detailed in tabular format in *Table 4.7* and pictorially in *Figure 4*.

Table 4.7: Preliminary Risk Evaluation of Potential Contaminant Linkages

1. Hazard Identification		2. Hazard Assessment				3. Risk Estimation		4. Risk Evaluation	5. Action required
Contaminant Source		Pathway		Receptor		Consequence	Probability	Classification	
S1	Made Ground	P1	Direct contact with potential contaminants.	R1/2	Site users	Medium	Low	Moderate / Low Risk	It is possible that harm could arise to a designated receptor from an identified hazard. Investigation is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
		P2	Ingestion of potential contaminants.	R1/2	Site users	Medium	Low	Moderate / Low Risk	
		P3	Inhalation of potential contaminants.	R1/2	Site users	Severe	Low	Moderate Risk	
		P4	Leaching and migration of contaminants.	R3/5	Secondary A Aquifer	Medium	Likely	Moderate Risk	
		P5	Vertical and lateral migration of ground gases / vapours.	R1	Site users	Severe	Unlikely	Moderate / Low Risk	
				R4	Property	Severe	Unlikely	Moderate / Low Risk	
S2	Made Ground, Historic Quarry Activity & Hydrocarbon spills	P4	Leaching and migration of contaminants.	R3/5	Secondary A Aquifer	Medium	Likely	Moderate Risk	
		P5	Vertical and lateral migration of ground gases / vapours.	R1	Site users	Severe	Unlikely	Moderate / Low Risk	
				R4	Property	Severe	Unlikely	Moderate / Low Risk	

5 Conclusions & Recommendations

5.1 Introduction

Sutcliffe Investigations were instructed Wales & West Housing Association Ltd, to provide a Phase I PRA report. The purpose of the report is to generate preliminary environmental assessment data for submission with an outline planning application for redevelopment of the site.

This comprised a review of the Phase I PRA data, collection of environmental information and reports undertaken on the site.

5.2 Environmental Risk Assessment Findings

The site is irregular in shape, 0.12ha in area, topographically declines south-eastward and two church buildings occupy most of the site. Tarmac hardstanding is noted to cover the southern end of the site and the open spaces in the eastern section and north-eastern corner of the site contain overgrown vegetation. Made Ground from a demolished building located in the southern half of the site, potential contamination from off-site sources, past underground coal mining and a fault located on-site have all been identified as potential environmental and geotechnical concerns to development on the site. The site lacks a superficial aquifer and is underlain by a Secondary A bedrock aquifer.

Taking the above into account, it is considered that there is a low – moderate potential for significant contamination to be present, localised contamination may represent a risk to long term human health and the potential for leaching of contaminants into controlled waters may be present. Consequently, the environmental risk setting for the site is considered to be low – moderate.

5.3 Classification & Land Use Risk

Historical maps initially indicate that off-site the surrounding land comprised residential areas with local amenities, fields, railway lines, a quarry, industrial areas and areas of shingle. Over time the surrounding land was increasingly built up with residential properties in all surrounding areas of the site.

The classification of risk is as follows:

Table 5.1: Land Use Risk Classification

Class	Description
Class 1	Potential for High levels of contamination and migration of contamination off the site.
Class 2	Potential for Medium levels of contamination and migration of contamination off site.
Class 3	Potential for Low levels of contamination and migration of contamination off site.
Class 4	Potential for limited contamination.

The Phase I PRA has not highlighted significant areas of concern and therefore, the site is deemed to be Class 3 – Low Risk.

5.4 Geotechnical Uncertainty

The site has been subject to previous development and therefore, the potential for relic foundations and obstructions cannot be discounted. The 'Summary of findings' map provided by the Coal Authority identified a geological fault running through the site.

5.5 Conclusions & Recommendations

Based on the findings of the Phase I PRA review, Sutcliffe Investigations do consider there to be significant environmental issues regarding the site. However, there is limited information of the ground for geotechnical properties and as such we would therefore recommend the following sequential works are undertaken:

- Submission of this Phase I PRA Report for the benefit of validating the outline planning application.
- Commission a Coal Mining Risk Assessment (CMRA).
- Commission a Phase II Ground Investigation designed to discharge any contaminated land conditions that may be assigned to the site and allow the design of economic foundation solutions.

Appendix A – Envirocheck Report (Report Reference: 309200671_1_1)

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
309200671_1_1

Customer Reference:
33326LG

National Grid Reference:
329420, 353850

Slice:
A

Site Area (Ha):
0.12

Search Buffer (m):
1000

Site Details:

Brymbo Chapels
Wrexham
LL11 5BL

Client Details:

MR W Baldwin
Sutcliffe Projects Ltd
18-20 Harrington Street
Liverpool
L2 9QA

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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.
In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

Sutcliffe

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1		Yes	Yes	n/a
Contaminated Land Register Entries and Notices	pg 3				1
Discharge Consents	pg 3			4	12
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 7			1	1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 7			Yes	
Pollution Incidents to Controlled Waters	pg 8			3	8
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 9				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 10				(*1)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 10	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 10	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 10			5	31

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 15		2	1	1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 15		1		
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 16				1
Potentially Infilled Land (Non-Water)	pg 16		1	2	19
Potentially Infilled Land (Water)	pg 17		1		4
Registered Landfill Sites	pg 18		1		2
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 19	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 19	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 23		1	3	37
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 30	Yes	n/a	n/a	n/a
Mining Instability	pg 30	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 30	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 30	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 30		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 31	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 31		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 31	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 31	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 31	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 32		6	3	5
Fuel Station Entries					
Points of Interest - Commercial Services	pg 33			3	
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 33		1	3	28
Points of Interest - Public Infrastructure	pg 36		2	3	6
Points of Interest - Recreational and Environmental	pg 37		2	3	4
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 38			2	8
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 38			1	
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	5	1	329400 353850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	55	1	329350 353854
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	57	1	329500 353854
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	78	1	329450 353750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	95	1	329350 353950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	123	1	329400 353700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	125	1	329450 353700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	164	1	329550 354000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (S)	171	1	329422 353650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	172	1	329450 354050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	174	1	329450 353650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (N)	184	1	329500 354050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	184	1	329350 353650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (S)	189	1	329500 353650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	221	1	329400 354100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	278	1	329350 354150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	283	1	329500 353550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	285	1	329600 353600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	301	1	329550 353550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (E)	307	1	329750 353854
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	308	1	329750 353900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	311	1	329200 353600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	316	1	329150 353650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	318	1	329100 353750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	319	1	329250 353550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	327	1	329350 354200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	331	1	329500 353500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	335	1	329100 353700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	342	1	329300 353500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	347	1	329550 353500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	348	1	329150 353600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	348	1	329200 353550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	355	1	329050 353854
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	358	1	329100 353650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	361	1	329250 354200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	363	1	329250 353500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	369	1	329600 353500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	370	1	329422 354250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	371	1	329450 354250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	378	1	329500 354250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	381	1	329150 353550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	407	1	329850 353854
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	408	1	329000 353800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SW)	408	1	329250 353450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	415	1	329150 354200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	426	1	329850 354000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	427	1	329350 353400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	427	1	329500 354300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	440	1	329800 353600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (E)	443	1	329850 353700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	455	1	329700 354250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	470	1	329400 354350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	472	1	329400 353350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	476	1	329350 353350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	486	1	329300 353350
1	**Contaminated Land Register Entries and Notices** Location: Hurricane House, Minera Road, Ffrith, Wrexham. Ll11 5ls. Notice Type: Environmental Protection Act (1990) Section 78H(7) Remediation Statement - Remediation Work Being Carried Out Reference: Not Supplied Dated: 5th March 2016 Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A12NW (W)	957	2	328451 353915
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Brymbo Combined Sewerage System (Se, Combined Sewerage System (See Authority: Natural Resources Wales Catchment Area: CEGIDOG Reference: Cm0049501 Permit Version: 3 Effective Date: 31st March 2007 Issued Date: 31st March 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Un-Named Trib. Of Cegidog **Status: Surrendered** Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	497	3	329700 354300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Brymbo Combined Sewerage System (Se, Combined Sewerage System (See Authority: Natural Resources Wales Catchment Area: CEGIDOG Reference: Cm0049501 Permit Version: 3 Effective Date: 31st March 2007 Issued Date: 31st March 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Un-Named Trib. Of Cegidog **Status: Surrendered** Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	497	3	329700 354300
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Brymbo Combined Sewerage System (Se, Combined Sewerage System (See Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0049501 Permit Version: 2 Effective Date: 31st March 2010 Issued Date: 21st January 2005 Revocation Date: 30th March 2007 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Un-Named Trib. Of Cegidog **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	497	3	329700 354300
2	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Brymbo Combined Sewerage System (Se, Combined Sewerage System (See Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0049501 Permit Version: 1 Effective Date: 20th May 1968 Issued Date: 20th May 1968 Revocation Date: 30th March 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Un-Named Trib. Of Cegidog **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	497	3	329700 354300
3	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Station - Water Company Location: Brymbo Ps Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0190901 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 24th March 2009 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Brook **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A18SE (N)	526	3	329500 354400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Brymbo Sps Cso, Coed Y Felin Farm, Coed Y Felin Rd, Brymbo, Wrexham, LI11 5dp Authority: Natural Resources Wales Catchment Area: CEGIDOG Reference: Cm0190901 Permit Version: 3 Effective Date: 26th February 2020 Issued Date: 26th February 2020 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: A Tributary Of Nant Brook **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	535	3	329688 354351
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Brymbo Sps Cso, Coed Y Felin Farm, Coed Y Felin Rd, Brymbo, Wrexham, LI11 5dp Authority: Natural Resources Wales Catchment Area: CEGIDOG Reference: Cm0190901 Permit Version: 3 Effective Date: 26th February 2020 Issued Date: 26th February 2020 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: A Tributary Of Nant Brook **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	535	3	329688 354351
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Brymbo Ps Authority: Natural Resources Wales Catchment Area: CEGIDOG Reference: Cm0190901 Permit Version: 2 Effective Date: 31st March 2009 Issued Date: 25th March 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Brook **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	535	3	329688 354351
4	**Discharge Consents** Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Brymbo Ps Authority: Natural Resources Wales Catchment Area: CEGIDOG Reference: Cm0190901 Permit Version: 2 Effective Date: 31st March 2009 Issued Date: 25th March 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Nant Brook **Status:** **Effective** Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	535	3	329688 354351

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: Gramac Mining Ltd Property Type: Undefined Or Other Location: Brymbo Minera Road Bryn Rhug Open C, Minera Road Bryn Rhug Open Cast, Bryn Rhug Open Cast Coal Site Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0091101 Permit Version: 1 Effective Date: 13th May 1981 Issued Date: 13th May 1981 Revocation Date: 2nd February 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Un-Named Trib. Of Cegidog **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A18NE (N)	724	3	329500 354600
6	**Discharge Consents** Operator: Manweb Plc Property Type: SUB-STATION/ELECTRICITY/GAS/AIR CONDITIONING SUPPLY Location: Brymbo Penrhos Sub-Station Authority: Natural Resources Wales Catchment Area: GWENFRO Reference: CM0004301 Permit Version: 1 Effective Date: 6th November 1967 Issued Date: 6th November 1967 Revocation Date: Not Supplied Discharge Type: Not Supplied Discharge Environment: Freshwater Stream/River Receiving Water: Un-Named Trib.Of Gwenfro **Status: Effective** Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	749	3	329000 353200
7	**Discharge Consents** Operator: Brymbo Developments Ltd Property Type: Iron & Steel Industries Location: Former Brymbo Steelworks Site Brymb, Brymbo, Wrexham, Wales Authority: Natural Resources Wales Catchment Area: River Dee Reference: CM0100901 Permit Version: 3 Effective Date: 28th August 1991 Issued Date: 28th August 1991 Revocation Date: 18th September 2003 Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Un-Named Stream Lead To River **Status: New Consent, by Application (Water Resources Act 1991, Section 88)** Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	817	3	329950 353200
7	**Discharge Consents** Operator: Brymbo Developments Ltd Property Type: Iron & Steel Industries Location: Former Brymbo Steelworks Site Brymb, Brymbo, Wrexham, Wales Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0100901 Permit Version: 2 Effective Date: 30th September 1985 Issued Date: 21st July 1972 Revocation Date: 27th August 1991 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Un-Named Stream Lead To River **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	817	3	329950 353200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Discharge Consents** Operator: Clay Colliery Co Ltd Property Type: Coal Extraction, Surface Location: Caello Brickworks Site Brymbo Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0160901 Permit Version: 1 Effective Date: 9th November 1988 Issued Date: 9th November 1988 Revocation Date: 13th January 1993 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Unnamed Trib Of Afon Cegidog **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A12NW (W)	893	3	328560 354150
9	**Discharge Consents** Operator: Gramac Mining Ltd Property Type: Undefined Or Other Location: Brymbo Bryn Rhug Farm Open Cast Coa, Bryn Rhug Farm Open Cast Coal Authority: Natural Resources Wales Catchment Area: River Dee Reference: Cm0087901 Permit Version: 1 Effective Date: 6th February 1980 Issued Date: 6th February 1980 Revocation Date: 2nd February 1994 Discharge Type: Unspecified Discharge Environment: Not Supplied Receiving Water: Ditch Trib. Of Cegidog **Status: Consent expired** Positional Accuracy: Located by supplier to within 100m	A18NW (N)	945	3	329200 354800
10	**Discharge Consents** Operator: Brymbo Developments Ltd Property Type: Not Supplied Location: Former Brymbo Steelworks Site Brymb, Brymbo, Wrexham, Wales Authority: Natural Resources Wales Catchment Area: GWENFRO Reference: CG0371001 Permit Version: 1 Effective Date: 14th April 1997 Issued Date: 14th April 1997 Revocation Date: 27th March 2018 Discharge Type: Trade And Other Matter Discharge Discharge Environment: Freshwater Stream/River Receiving Water: River Gwenfro **Status: Revoked** Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	948	3	329970 353050
11	**Local Authority Pollution Prevention and Controls** Name: Clay Colliery Ltd Location: The Smelt, Brymbo, WREXHAM, Clwyd, LL13 Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: WMBC/HJB/02/046 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/5 Coal, coke and coal product processes **Status: Authorisation revoked** Positional Accuracy: Manually positioned to the address or location	A13SE (S)	255	4	329497 353578
12	**Local Authority Pollution Prevention and Controls** Name: Brymbo Developments Ltd Location: Former Brymbo Steelworks Site, Brymbo, WREXHAM, Clwyd, LL11 5BT Authority: Wrexham County Borough Council, Environmental Health Department Permit Reference: Wcbc/Pg3/1(7)V1 Dated: 19th September 2002 Process Type: Local Authority Air Pollution Control Description: Part B - General Mineral Process (No Specific Reference) **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A8SE (S)	835	4	329678 353027
	Nearest Surface Water Feature	A13SW (S)	293	-	329367 353533

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Other Location: Fish Farm Authority: Environment Agency, Welsh Region Pollutant: Farm Land Run-Off Note: Blocked Sewer Incident Date: 20th April 1992 Incident Reference: 4179 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	305	5	329700 353700
14	**Pollution Incidents to Controlled Waters** Property Type: Council Premises Location: Pumping Station, BRYMBO Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Blocked Sewer Incident Date: 23rd May 1995 Incident Reference: 24092 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (N)	427	5	329500 354300
15	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Pool Road, Brown Heath Farm, WREXHAM Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Natural Causes Incident Date: 31st May 1996 Incident Reference: 28617 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	438	5	329300 353400
16	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Woods, Back Of Sardis Road Car Park Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Blocked Sewer Incident Date: 7th October 1996 Incident Reference: 30120 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	522	5	329680 354340
17	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Vicarage Lane Ps, BRYMBO Authority: Environment Agency, Welsh Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 15th August 1996 Incident Reference: 29641 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (N)	543	5	329600 354395
17	**Pollution Incidents to Controlled Waters** Property Type: Council Premises Location: CEFN-Y-BEDD Authority: Environment Agency, Welsh Region Pollutant: Farm Effluent/Slurry Note: Mechanical Failure Incident Date: 16th September 1995 Incident Reference: 25923 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (N)	548	5	329600 354400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**Pollution Incidents to Controlled Waters** Property Type: Council Premises Location: Fish Farm, Bryn Bow Pumping Station Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Emergency Overflow Incident Date: 10th May 1992 Incident Reference: 4247 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (N)	644	5	329600 354500
19	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Storm Overflow Location: Old Sewage, Works Brymbo, Water Authority: Environment Agency, Welsh Region Pollutant: Light Oil Note: Weather Incident Date: 15th May 1995 Incident Reference: 23975 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Overflow Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	676	5	329700 354500
20	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Brymbo Steel Works Authority: Environment Agency, Welsh Region Pollutant: Industrial Solid Waste Note: Natural Causes Incident Date: 1st September 1994 Incident Reference: 21042 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	707	5	328700 353800
21	**Pollution Incidents to Controlled Waters** Property Type: Domestic/Residential Location: Clay Colliery Authority: Environment Agency, Welsh Region Pollutant: Unknown Note: Poor Operational Practise Incident Date: 15th July 1991 Incident Reference: 2908 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Runoff Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	891	5	328560 354145
21	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Stream, Glascoed Woods, GLASCOED Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 2nd August 1991 Incident Reference: 3059 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	893	5	328560 354150
	River Quality Name: Cegidog GQA Grade: River Quality A Reach: Conf.Alyn- Conf.Nant Y Ffrith Estimated Distance (km): 4.4 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A17NE (N)	997	5	329071 354815

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Cymau Quarry Conservation Group Licence Number: 24/67/8/0107 Permit Version: Not Supplied Location: Not Supplied Authority: Natural Resources Wales Abstraction: Environmental: Non-remedial River/Wetland Support: Lake & Pond Throughflow Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24NE (NE)	1691	3	330130 355420
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NW (NW)	0	3	329422 353854
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (NW)	0	3	329422 353854
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
22	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 179.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SW (N)	329	6	329340 354199
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 175.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SE (W)	422	6	329008 353696
24	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SE (N)	461	6	329435 354341

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 269.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SE (NE)	462	6	329730 354237
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 152.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SE (N)	494	6	329501 354367
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 121.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SE (W)	514	6	328891 353822
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 68.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SW (N)	584	6	329363 354462
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 92.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SW (N)	584	6	329363 354462
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 147.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SW (N)	607	6	329196 354445
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 82.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NE (W)	610	6	328796 353874
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12NE (W)	613	6	328793 353853
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SE (N)	622	6	329442 354501

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 77.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SE (N)	623	6	329445 354503
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 90.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SE (W)	625	6	328781 353808
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SE (W)	625	6	328781 353808
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SE (N)	635	6	329577 354496
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 135.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SE (N)	654	6	329596 354511
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 30.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SE (NE)	670	6	329724 354483
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 212.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18NE (N)	680	6	329467 354558
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18SE (NE)	688	6	329754 354489
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 78.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19SW (NE)	703	6	329774 354495

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19SW (NE)	753	6	329851 354508
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 304.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A18NE (N)	778	6	329608 354635
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19NW (NE)	782	6	329871 354529
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 131.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7SE (SW)	816	6	329006 353117
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SW (W)	850	6	328586 353614
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A17NE (NW)	870	6	328837 354531
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 127.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19NW (NE)	881	6	329955 354592
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7SE (SW)	935	6	328997 352987
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 78.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A7SE (SW)	938	6	328997 352983

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19NW (NE)	942	6	329907 354694
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19NW (NE)	953	6	329931 354694
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A12SW (W)	958	6	328498 353529
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19NW (NE)	961	6	329948 354693
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19NW (NE)	990	6	329998 354695
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 196.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Dee Primacy: 1	A19NW (NE)	998	6	330013 354695

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	**Historical Landfill Sites** Licence Holder: Brymbo Steel Works Ltd Location: Brymbo, Lodge, Wrexham Name: Works Bank Operator Location: Parkhill House, Newport, 133 High Street, Shropshire Boundary Accuracy: As Supplied Provider Reference: EAHLD35604 First Input Date: 30th December 1899 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Industrial Waste EA Waste Ref: 37002 Regis Ref: WU1/L/BRI001 WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A13SE (S)	92	3	329448 353734
59	**Historical Landfill Sites** Licence Holder: British Legion Social Club Location: Brymbo Name: British Legion Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14751 First Input Date: 1st April 1982 Last Input Date: 31st December 1982 Specified Waste Type: Deposited Waste included Inert, Industrial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0011 BGS Ref: Not Supplied Other Ref: Not Supplied	A13NW (NW)	207	3	329289 354045
60	**Historical Landfill Sites** Licence Holder: Brymbo Steel Works Limited Location: Wrexham, Brymbo Name: Brymbo Steelworks Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14760 First Input Date: 31st December 1940 Last Input Date: 31st December 1985 Specified Waste Type: Deposited Waste included Industrial and Special Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0061 BGS Ref: Not Supplied Other Ref: WMBC L/11	A13SW (SW)	420	3	329127 353518
61	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Brymbo Name: Bryn Malley Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14244 First Input Date: 31st December 1890 Last Input Date: 31st December 1920 Specified Waste Type: Deposited Waste included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6955/0014 BGS Ref: Not Supplied Other Ref: Not Supplied	A14SE (E)	758	3	330134 353566
62	**Licensed Waste Management Facilities (Landfill Boundaries)** Name: Works Bank Licence Number: 37002 Location: Brymbo Steel Works, Lodge, Brymbo, Wrexham, LL11 5BT Licence Holder: Brymbo Steel Works Limited Authority: Natural Resources Wales Site Category: Industrial Waste Landfills Max Input Rate: Not Supplied **Licence Status: Inactive** Issued: 19th July 1977 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A13SE (S)	92	3	329448 353734
	Local Authority Landfill Coverage Name: Wrexham County Borough Council - Has supplied landfill data		0	7	329422 353854

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Flintshire Council - Has supplied landfill data		910	8	329182 354759
63	**Local Authority Recorded Landfill Sites** Location: Bryn Malley, Station Road, Brymbo, Wrexham Reference: 6955/0014 Authority: Wrexham County Borough Council **Last Reported Status:** **Closed** Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A14SE (E)	757	7	330136 353571
64	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13NW (W)	63	-	329346 353866
65	**Potentially Infilled Land (Non-Water)** Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13SW (S)	296	-	329336 353538
66	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13SW (SW)	319	-	329117 353702
67	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A14SW (E)	536	-	329973 353801
68	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NW (E)	620	-	330022 354096
69	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A12NW (W)	663	-	328746 353915
70	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9NW (SE)	720	-	329900 353284
71	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A9NE (SE)	760	-	330100 353483
72	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9SW (SE)	762	-	329804 353163
73	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14SE (E)	777	-	330154 353563
74	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19SW (NE)	795	-	330044 354395
75	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A9NW (SE)	827	-	330088 353334
76	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19SW (NE)	831	-	330022 354471

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A17NE (NW)	841	-	328904 354548
78	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14NE (E)	853	-	330269 354087
79	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19SW (NE)	867	-	330075 354469
80	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19SE (NE)	878	-	330256 354205
81	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A7SE (SW)	881	-	328865 353136
82	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A19NW (NE)	894	-	330044 354537
83	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A17NE (NW)	942	-	328838 354625
84	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A19NW (NE)	945	-	329916 354693
85	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9SW (SE)	965	-	329859 352962
86	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A13SE (SE)	192	-	329549 353679
87	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A8NW (S)	617	-	329186 353250
88	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1879	A12SE (W)	637	-	328770 353811
89	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A17NE (NW)	823	-	328927 354543
90	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A19NW (NE)	899	-	329790 354704

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	**Registered Landfill Sites** Licence Holder: Brymbo & Broughton British Legion Licence Reference: L40 Site Location: Bryn-Y-Ffynnion Road, Penycraig, Wrexham, Clwyd Licence Easting: 329300 Licence Northing: 354070 Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st March 1982 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Bricks/Rubble Quarry Wastes Steel Slag	A13NW (NW)	222	5	329300 354070
92	**Registered Landfill Sites** Licence Holder: Brymbo Steel Works Ltd Licence Reference: NOW-525-L (L11) Site Location: Works Bank Lodge, Brymbo, Wrexham, Clwyd Licence Easting: 329800 Licence Northing: 353050 Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source Restrictions: Waste produced/controlled by licence holder Status: Licence has completion certificateSurrendered Dated: 19th July 1977 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: General Factory Waste(Inc. Sweepings) Pelletised Arc Furnace Fume Dust Waste Ex Blast Furnace Process	A9SW (SE)	860	5	329800 353050
92	**Registered Landfill Sites** Licence Holder: Brymbo Steel Works Ltd Licence Reference: NOW-525-L (L11) Site Location: Wonder Bank, Brymbo, Wrexham, Clwyd Licence Easting: 329800 Licence Northing: 353050 Operator Location: As Site Address Authority: Environment Agency Wales, North Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: Waste produced/controlled by licence holder Status: Licence has completion certificateSurrendered Dated: 19th July 1977 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Thickened Gas Washing Slurry	A9SW (SE)	860	5	329800 353050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	A13NW (NW)	0	1	329422 353854
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	0	1	329422 353854
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: <15 mg/kg	A13SW (W)	28	1	329376 353841
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (W)	150	1	329261 353898
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: <15 mg/kg	A13NW (N)	243	1	329332 354108
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: <15 mg/kg	A13NE (N)	254	1	329442 354133
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	262	1	329344 354132

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: <15 mg/kg	A13NE (NE)	277	1	329690 354000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: <15 mg/kg	A18SW (N)	346	1	329283 354199
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (NW)	371	1	329236 354205
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: <15 mg/kg	A18SW (NW)	410	1	329243 354252
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: <15 mg/kg	A12NE (W)	428	1	329000 354000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (NW)	441	1	329243 354286

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (NE)	451	1	329754 354201
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: <15 mg/kg	A14NW (E)	458	1	329884 354000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (NW)	578	1	329177 354406
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (N)	620	1	329422 354500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: <15 mg/kg	A18SW (N)	621	1	329382 354500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (N)	625	1	329500 354500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: <15 mg/kg	A18SE (N)	644	1	329600 354500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (NE)	673	1	329734 354482
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	695	1	329047 354470
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19SW (NE)	705	1	329769 354500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	713	1	328910 354385
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: <15 mg/kg	A17NE (NW)	867	1	329028 354655

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: <15 mg/kg	A17SW (NW)	871	1	328731 354422
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7SE (SW)	955	1	329029 352949
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 300 - 600 mg/kg Nickel Concentration: <15 mg/kg	A7NW (W)	967	1	328500 353500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12NW (W)	989	1	328429 354000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: <15 mg/kg	A19NW (NE)	996	1	330013 354692
93	**BGS Recorded Mineral Sites** Site Name: Mount Pleasant Coal Pit Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138260 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Cefn Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NW (W)	57	1	329353 353872

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
94	**BGS Recorded Mineral Sites** Site Name: Brymbo Colliery Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 14112 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (S)	338	1	329330 353495
95	**BGS Recorded Mineral Sites** Site Name: Mount Pleasant Coal Pit Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138256 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SE (W)	409	1	329006 353751
96	**BGS Recorded Mineral Sites** Site Name: Mount Pleasant Coal Pit Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138258 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	486	1	329016 353546
97	**BGS Recorded Mineral Sites** Site Name: The Green Coal Pit Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138261 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SW (E)	538	1	329976 353802
98	**BGS Recorded Mineral Sites** Site Name: Glas Coed Coal Pit Location: Bwlchgwyn, Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138248 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NE (W)	562	1	328852 353942
99	**BGS Recorded Mineral Sites** Site Name: Mount Pleasant Coal Pit Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138257 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	564	1	328903 353582

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	**BGS Recorded Mineral Sites** Site Name: Mount Pleasant Coal Pit Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138259 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	585	1	329025 353388
101	**BGS Recorded Mineral Sites** Site Name: Bryn-Y-Ffynnon Location: Grascoed, Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138156 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	587	1	328915 354193
102	**BGS Recorded Mineral Sites** Site Name: Bryn-Rhug Location: Ffrith, Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138163 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	589	1	329089 354371
103	**BGS Recorded Mineral Sites** Site Name: Brymbo Steelworks Occs Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 13210 Type: Opencast **Status: Ceased** Operator: Brymbo Developments Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m	A8NE (S)	616	1	329650 353250
104	**BGS Recorded Mineral Sites** Site Name: Bryn-R-Hug Location: Grascoed, Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138155 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	639	1	328974 354344
105	**BGS Recorded Mineral Sites** Site Name: Halcock Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138188 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NW (E)	659	1	330060 354105

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	**BGS Recorded Mineral Sites** Site Name: Bryn-Y-Ffynnon Location: Grascoed, Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138157 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NE (W)	699	1	328754 354119
107	**BGS Recorded Mineral Sites** Site Name: Ffrith Hall Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138148 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	707	1	329013 354462
108	**BGS Recorded Mineral Sites** Site Name: Mount Plesant Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138324 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Lead Positional Accuracy: Located by supplier to within 10m	A12SW (W)	725	1	328731 353571
109	**BGS Recorded Mineral Sites** Site Name: Bryn-Y-Ffynnon Location: Grascoed, Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138158 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NW (W)	751	1	328685 354072
110	**BGS Recorded Mineral Sites** Site Name: Cae Llo Brickworks Occs Location: Mount Sion, Brymbo, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 4788 Type: Opencast **Status: Ceased** Operator: Onyx Land Technologies Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	780	1	328700 354200
111	**BGS Recorded Mineral Sites** Site Name: Nant Location: Ffrith, Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138167 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	781	1	330056 354359

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	**BGS Recorded Mineral Sites** Site Name: Black Lane Colliery Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138262 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14SE (E)	783	1	330160 353560
113	**BGS Recorded Mineral Sites** Site Name: Glas Coed Coal Pit Location: Bwlchgwyn, Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138249 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SW (SW)	784	1	328678 353546
114	**BGS Recorded Mineral Sites** Site Name: Glas Coed Coal Pit Location: Bwlchgwyn, Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138252 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SW (W)	786	1	328640 353663
115	**BGS Recorded Mineral Sites** Site Name: Nant Location: Ffrith, Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138166 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	815	1	330033 354438
116	**BGS Recorded Mineral Sites** Site Name: Pen-Y-Coed Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138186 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	850	1	328913 354566
117	**BGS Recorded Mineral Sites** Site Name: Glas Coed Coal Pit Location: Bwlchgwyn, Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138251 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NW (W)	852	1	328558 353937

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
118	**BGS Recorded Mineral Sites** Site Name: Pen-Y-Bryn Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138303 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	862	1	330123 353323
119	**BGS Recorded Mineral Sites** Site Name: Nant Location: Ffrith, Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138168 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	870	1	330105 354439
120	**BGS Recorded Mineral Sites** Site Name: Ffrwd Farm Location: Ffrith, Caergwrle, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138144 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	877	1	330085 354473
120	**BGS Recorded Mineral Sites** Site Name: Nant Location: Ffrith, Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138169 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	904	1	330076 354520
121	**BGS Recorded Mineral Sites** Site Name: Bryn-Mally Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138185 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	889	1	330265 354213
122	**BGS Recorded Mineral Sites** Site Name: Bryn-Y-Ffynnon Location: Grascoed, Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138159 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NW (W)	905	1	328517 354021

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	**BGS Recorded Mineral Sites** Site Name: Bryn-Mally Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138190 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NE (E)	913	1	330331 354085
124	**BGS Recorded Mineral Sites** Site Name: Pinfold Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138264 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	921	1	328833 353110
125	**BGS Recorded Mineral Sites** Site Name: Ffrith Hall Location: Brymbo, Wrexham, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 138145 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NW (N)	936	1	329122 354768
126	**BGS Recorded Mineral Sites** Site Name: Ffrwd Farm Location: Ffrith, Caergwrle, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138143 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	956	1	330076 354592
127	**BGS Recorded Mineral Sites** Site Name: The Lodge Pit Location: The Lodge, Broughton, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 198566 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	965	1	329866 352966
128	**BGS Recorded Mineral Sites** Site Name: Glascoed Occs Location: Mount Sion, Brymbo, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 4790 Type: Opencast **Status: Ceased** Operator: Clay Colliery Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 100m	A17SW (W)	966	1	328500 354200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
129	**BGS Recorded Mineral Sites** Site Name: Bryn-Mally Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138189 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SE (E)	969	1	330346 354226
130	**BGS Recorded Mineral Sites** Site Name: Glas Coed Coal Pit Location: Bwlchgwyn, Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138254 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SW (W)	983	1	328423 353807
131	**BGS Recorded Mineral Sites** Site Name: Lodge Drift Mine Location: Pentre Broughton, Wrexham, Denbighshire Source: British Geological Survey, National Geoscience Information Service Reference: 4740 Type: Underground **Status: Ceased** Operator: Clay Colliery Co., Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 100m	A9SE (SE)	992	1	330100 353100
132	**BGS Recorded Mineral Sites** Site Name: Ffrith Hall Location: Brymbo, Wrexham, Clwyd Source: British Geological Survey, National Geoscience Information Service Reference: 138146 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	994	1	328787 354652
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NW (NW)	0	9	329422 353854
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (NW)	0	-	329422 353854
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	329422 353854
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	329422 353854
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	329422 353854

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	107	1	329473 353728
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	329422 353854
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	329430 353855
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	329422 353854
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	28	1	329376 353841
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	142	1	329504 353707
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	160	1	329280 353970
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	233	1	329235 353677
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	329422 353854
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	107	1	329473 353728
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	243	1	329332 354108
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	329422 353854
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	28	1	329376 353841
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	117	1	329444 353707
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	150	1	329261 353898
	Radon Potential - Radon Affected Areas Affected Area: The property is an Intermediate probability radon area (3 to 5% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	329422 353854
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	329422 353854

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	**Contemporary Trade Directory Entries** Name: Impeckable Nest Boxes & Bird Feeders Location: The Flat, 25, High Street, Wrexham, LL11 5BL Classification: Glass Fibre Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	21	-	329461 353885
134	**Contemporary Trade Directory Entries** Name: Lemaitre Vascular Ltd Location: Harwd Road, Brymbo, Wrexham, Clwyd, LL11 5EA Classification: Medical Equipment Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (E)	73	-	329503 353832
135	**Contemporary Trade Directory Entries** Name: Lemaitre Vascular Location: Cambrian House, Railway Road, Brymbo, Wrexham, Clwyd, LL11 5EA Classification: Medical Equipment Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	84	-	329522 353905
136	**Contemporary Trade Directory Entries** Name: G P Laundry Express Location: Unit 4,Railway Rd, Brymbo, Wrexham, Clwyd, LL11 5EA Classification: Laundries & Launderettes **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13NE (E)	157	-	329599 353893
137	**Contemporary Trade Directory Entries** Name: N K S Drawing Office Services Location: Unit A, Blast Road, Brymbo, Wrexham, LL11 5BT Classification: Office Equipment Servicing & Maintenance **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	166	-	329473 353664
137	**Contemporary Trade Directory Entries** Name: 2 Evolv Location: Blast Rd, Brymbo, Wrexham, Clwyd, LL11 5BT Classification: Digital Printing **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13SE (S)	166	-	329473 353664
138	**Contemporary Trade Directory Entries** Name: A Green Location: 2, Bryn Awel, Coed y Felin Road, Brymbo, Wrexham, Clwyd, LL11 5DP Classification: Coal & Smokeless Fuel Merchants & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	268	-	329652 354042
139	**Contemporary Trade Directory Entries** Name: Queens Cross Garage Location: Railway Road, Brymbo, Wrexham, Clwyd, LL11 5EA Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (E)	276	-	329719 353880
140	**Contemporary Trade Directory Entries** Name: Maid For Today Location: 27, Dyke Street, Brymbo, Wrexham, Clwyd, LL11 5AH Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	379	-	329082 354066
141	**Contemporary Trade Directory Entries** Name: Quick 'N' Clean Location: 15, Broughton Heights, Pentre Broughton, Wrexham, Clwyd, LL11 6BX Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	768	-	330149 353574
142	**Contemporary Trade Directory Entries** Name: D E Lloyd Location: Vicarage Road, Brymbo, Wrexham, Clwyd, LL11 5LF Classification: Dairies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	976	-	329529 354850
143	**Contemporary Trade Directory Entries** Name: Web Oil Location: Bryn Haul, Black Lane Road, Pentre Broughton, Wrexham, LL11 6BB Classification: Oil Fuel Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	982	-	330337 353468

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	**Contemporary Trade Directory Entries** Name: E Cunnah & Son Ltd Location: Bryn Haul, Black Lane Road, Pentre Broughton, Wrexham, Clwyd, LL11 6BB Classification: Oil Fuel Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	982	-	330337 353469
143	**Contemporary Trade Directory Entries** Name: Web Oil Location: Bryn Haul, Black Lane Road, Pentre Broughton, Wrexham, LL11 6BB Classification: Oil Companies **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	983	-	330337 353468
144	**Points of Interest - Commercial Services** Name: Queens Cross Garage Location: Railway Road, Brymbo, Wrexham, LL11 5EA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (E)	275	10	329718 353882
144	**Points of Interest - Commercial Services** Name: Queens Cross Location: Railway Road, Brymbo, Wrexham, LL11 5EA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (E)	276	10	329719 353880
145	**Points of Interest - Commercial Services** Name: Ap Windscreen Ltd Location: 39 Offa Street, Brymbo, Wrexham, LL11 5AG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (NW)	346	10	329138 354091
146	**Points of Interest - Manufacturing and Production** Name: Enterprise Centre Location: LL11 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13SE (S)	143	10	329467 353687
147	**Points of Interest - Manufacturing and Production** Name: Tank Location: LL11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	267	10	329633 353660
148	**Points of Interest - Manufacturing and Production** Name: Tank Location: LL11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	345	10	329286 354199
149	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	421	10	328993 353759
150	**Points of Interest - Manufacturing and Production** Name: Works Location: LL11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	505	10	329620 354348
150	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	506	10	329621 354349
151	**Points of Interest - Manufacturing and Production** Name: Shaft Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	569	10	328902 353573

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
151	**Points of Interest - Manufacturing and Production** Name: Shaft Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A12SE (SW)	574	10	328894 353577
152	**Points of Interest - Manufacturing and Production** Name: Shaft Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A17SE (NW)	625	10	329079 354407
153	**Points of Interest - Manufacturing and Production** Name: K Steven Location: Clayton Road, Pentre Broughton, Wrexham, LL11 6BW Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A14NW (E)	648	10	330075 354017
154	**Points of Interest - Manufacturing and Production** Name: Shaft Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A12SW (W)	689	10	328742 353654
154	**Points of Interest - Manufacturing and Production** Name: Shaft Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	709	10	328722 353651
155	**Points of Interest - Manufacturing and Production** Name: Shaft Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	708	10	329005 354458
155	**Points of Interest - Manufacturing and Production** Name: Shaft Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A17SE (NW)	715	10	329005 354466
156	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	709	10	328752 353562
156	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A12SW (SW)	731	10	328729 353561
157	**Points of Interest - Manufacturing and Production** Name: Tank Location: LL11 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	739	10	328675 353960
158	**Points of Interest - Manufacturing and Production** Name: Mine (Disused) Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	791	10	330166 353555
159	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A12SW (W)	797	10	328629 353660

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
159	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	801	10	328627 353650
160	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	826	10	328638 353534
160	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A12SW (W)	840	10	328624 353531
161	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	855	10	328556 353941
161	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A12NW (W)	867	10	328544 353940
162	**Points of Interest - Manufacturing and Production** Name: Shaft Location: LL12 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A19NW (NE)	889	10	329965 354595
162	**Points of Interest - Manufacturing and Production** Name: Shaft Location: LL12 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	897	10	329980 354593
163	**Points of Interest - Manufacturing and Production** Name: Shaft Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	902	10	328520 354023
163	**Points of Interest - Manufacturing and Production** Name: Shaft Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A12NW (W)	913	10	328509 354021
164	**Points of Interest - Manufacturing and Production** Name: Shaft Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	932	10	329125 354765
164	**Points of Interest - Manufacturing and Production** Name: Shaft Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A18NW (N)	932	10	329117 354763
165	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	981	10	328425 353808

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
165	**Points of Interest - Manufacturing and Production** Name: Shaft (Disused) Location: LL11 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A11SE (W)	995	10	328411 353806
166	**Points of Interest - Public Infrastructure** Name: Garden of Rest Location: LL11 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	116	10	329517 353964
166	**Points of Interest - Public Infrastructure** Name: Garden of Rest Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	131	10	329538 353965
167	**Points of Interest - Public Infrastructure** Name: Cemetery Location: LL11 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	398	10	329838 353833
168	**Points of Interest - Public Infrastructure** Name: Cemetery Location: LL11 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	464	10	329458 354343
168	**Points of Interest - Public Infrastructure** Name: Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	469	10	329470 354347
169	**Points of Interest - Public Infrastructure** Name: Slurry Lagoon Location: LL11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A14NE (E)	700	10	330112 354080
169	**Points of Interest - Public Infrastructure** Name: Slurry Lagoon Location: LL11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	701	10	330110 354090
169	**Points of Interest - Public Infrastructure** Name: Slurry Lagoon Location: LL11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A14NE (E)	735	10	330162 354028
169	**Points of Interest - Public Infrastructure** Name: Slurry Lagoon Location: LL11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	741	10	330168 354027
170	**Points of Interest - Public Infrastructure** Name: Refuse Tip (Disused) Location: LL11 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	839	10	330218 353554
171	**Points of Interest - Public Infrastructure** Name: Filter Bed Location: LL11 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	858	10	329927 353129

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
172	**Points of Interest - Recreational and Environmental** Name: Play Area Location: LL11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	215	10	329249 354020
173	**Points of Interest - Recreational and Environmental** Name: Playground Location: Mount Isa Drive (Rhodfa Mount Isa), LL11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13SE (E)	218	10	329655 353824
174	**Points of Interest - Recreational and Environmental** Name: Play Area Location: Blast Road, LL11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13SW (SW)	265	10	329251 353616
174	**Points of Interest - Recreational and Environmental** Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	267	10	329248 353616
175	**Points of Interest - Recreational and Environmental** Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	431	10	329861 353773
176	**Points of Interest - Recreational and Environmental** Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	522	10	328986 354181
176	**Points of Interest - Recreational and Environmental** Name: Play Area Location: LL11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	524	10	328982 354179
176	**Points of Interest - Recreational and Environmental** Name: Skatepark Location: LL11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	568	10	328960 354224
177	**Points of Interest - Recreational and Environmental** Name: Play Area Location: LL11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	839	10	329414 352982

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	**Ancient Woodland** Name: Not Supplied Reference: 50192 Area(m²): 6221.74 Type: Ancient Woodland Site of Unknown Category	A8NE (S)	350	3	329484 353478
179	**Ancient Woodland** Name: Not Supplied Reference: 49551 Area(m²): 1355.11 Type: Ancient Woodland Site of Unknown Category	A8NE (S)	388	3	329456 353435
180	**Ancient Woodland** Name: Not Supplied Reference: 32245 Area(m²): 2837.07 Type: Ancient and Semi-Natural Woodland	A14NE (E)	719	3	330136 354065
181	**Ancient Woodland** Name: Not Supplied Reference: 32246 Area(m²): 7239.27 Type: Ancient and Semi-Natural Woodland	A14NE (E)	882	3	330295 354102
182	**Ancient Woodland** Name: Not Supplied Reference: 45846 Area(m²): 4098.81 Type: Plantation on Ancient Woodland	A19NW (NE)	898	3	330013 354569
183	**Ancient Woodland** Name: Not Supplied Reference: 29999 Area(m²): 3261.39 Type: Ancient and Semi-Natural Woodland	A9SW (SE)	933	3	330033 353119
184	**Ancient Woodland** Name: Not Supplied Reference: 50191 Area(m²): 2332.39 Type: Ancient Woodland Site of Unknown Category	A8SE (S)	954	3	329760 352931
185	**Ancient Woodland** Name: Not Supplied Reference: 26530 Area(m²): 50887.54 Type: Ancient and Semi-Natural Woodland	A17SW (NW)	970	3	328629 354453
186	**Ancient Woodland** Name: Not Supplied Reference: 49550 Area(m²): 1235.97 Type: Ancient Woodland Site of Unknown Category	A9SW (S)	979	3	329762 352905
187	**Ancient Woodland** Name: Not Supplied Reference: 28405 Area(m²): 77385.46 Type: Ancient and Semi-Natural Woodland	A17SW (NW)	984	3	328654 354507
188	**Sites of Special Scientific Interest** Name: Coedwig Ffosil Brymbo Fossil Forest Multiple Areas: N Total Area (m2): 5216.84 Source: Natural Resources Wales Reference: 296131wtg Designation Details: Not Supplied Designation Date: Not Supplied Date Type: Not Supplied	A8NE (S)	340	3	329528 353499

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Natural Resources Wales	June 2020	Annually
Flintshire Council - Environmental Health Department	October 2017	Annual Rolling Update
Wrexham County Borough Council - Public Protection Department	October 2017	Annually
Denbighshire County Council - Public Protection Department	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Welsh Region	August 2014	Quarterly
Natural Resources Wales	October 2022	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Welsh Region	March 2013	
Integrated Pollution Controls		
Environment Agency - Welsh Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - Welsh Region	January 2021	Quarterly
Natural Resources Wales	January 2023	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Wrexham County Borough Council - Environmental Health Department	April 2014	Variable
Flintshire Council - Environmental Health Department	April 2016	Variable
Denbighshire County Council - Environmental Health Department	December 2014	Variable
Local Authority Pollution Prevention and Controls		
Wrexham County Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
Flintshire Council - Environmental Health Department	April 2016	Annual Rolling Update
Denbighshire County Council - Environmental Health Department	December 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Wrexham County Borough Council - Environmental Health Department	April 2014	Variable
Flintshire Council - Environmental Health Department	April 2016	Variable
Denbighshire County Council - Environmental Health Department	December 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	January 2023	
Pollution Incidents to Controlled Waters		
Environment Agency - Welsh Region	December 1998	
Prosecutions Relating to Authorised Processes		
Environment Agency - Welsh Region	July 2015	
Natural Resources Wales	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - Welsh Region	March 2013	
Natural Resources Wales	March 2013	
Registered Radioactive Substances		
Natural Resources Wales	January 2015	
Environment Agency - Welsh Region	June 2016	As notified
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
Substantiated Pollution Incident Register		
Environment Agency Wales - North Area	January 2021	Quarterly
Natural Resources Wales	January 2023	Quarterly
Water Abstractions		
Environment Agency - Welsh Region	January 2023	Quarterly
Natural Resources Wales	January 2023	Quarterly
Water Industry Act Referrals		
Environment Agency - Welsh Region	October 2017	
Natural Resources Wales	October 2022	Quarterly

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability Map Natural Resources Wales	June 2018	As notified
Bedrock Aquifer Designations Natural Resources Wales	January 2018	Annually
Superficial Aquifer Designations Natural Resources Wales	January 2018	Annually
Source Protection Zones Natural Resources Wales	July 2022	Annual Rolling Update
Extreme Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	
Flooding from Rivers or Sea without Defences Natural Resources Wales	September 2020	
Areas Benefiting from Flood Defences Natural Resources Wales	November 2019	Quarterly
Flood Water Storage Areas Natural Resources Wales	August 2019	Quarterly
Flood Defences Natural Resources Wales	November 2019	Quarterly
OS Water Network Lines Ordnance Survey	January 2023	Quarterly
Surface Water 1 in 30 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Natural Resources Wales	May 2018	Annually
Surface Water Suitability Natural Resources Wales	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites		
Natural Resources Wales	March 2023	As notified
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Welsh Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency Wales - North Area	January 2023	Quarterly
Natural Resources Wales	October 2021	Quarterly
Licensed Waste Management Facilities (Locations)		
Natural Resources Wales	January 2023	Quarterly
Environment Agency Wales - North Area	July 2021	Quarterly
Local Authority Landfill Coverage		
Denbighshire County Council - Environmental Health Department	February 2003	Not Applicable
Flintshire Council - Environmental Health Department	February 2003	Not Applicable
Wrexham County Borough Council	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Denbighshire County Council - Environmental Health Department	October 2018	
Flintshire Council - Environmental Health Department	October 2018	
Wrexham County Borough Council	October 2018	
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	
Registered Landfill Sites		
Environment Agency Wales - North Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency Wales - North Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency Wales - North Area	June 2015	
Hazardous Substances	**Version**	**Update Cycle**
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	March 2023	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Denbighshire County Council - Planning Department	February 2016	Variable
Wrexham County Borough Council - Planning Department	February 2016	Variable
Flintshire Council	January 2016	Variable
Planning Hazardous Substance Consents		
Denbighshire County Council - Planning Department	February 2016	Variable
Wrexham County Borough Council - Planning Department	February 2016	Variable
Flintshire Council	January 2016	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2022	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	January 2023	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	March 2023	Quarterly
Points of Interest - Education and Health PointX	March 2023	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2023	Quarterly
Points of Interest - Public Infrastructure PointX	March 2023	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2023	Quarterly
Underground Electrical Cables National Grid	February 2023	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural Resources Wales	September 2018	Bi-Annually
Areas of Adopted Green Belt		
Denbighshire County Council	July 2022	Quarterly
Flintshire Council	July 2022	Quarterly
Wrexham County Borough Council	July 2022	Quarterly
Areas of Unadopted Green Belt		
Denbighshire County Council	July 2022	Quarterly
Flintshire Council	July 2022	Quarterly
Wrexham County Borough Council	July 2022	Quarterly
Areas of Outstanding Natural Beauty		
Natural Resources Wales	August 2022	Bi-Annually
Environmentally Sensitive Areas		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Denbighshire County Council	August 2018	Bi-Annually
Flintshire Council	August 2018	Bi-Annually
Wrexham County Borough Council	August 2018	Bi-Annually
Marine Nature Reserves		
Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves		
Natural Resources Wales	February 2023	Bi-Annually
National Parks		
Natural Resources Wales	February 2018	Annually
Nitrate Vulnerable Zones		
The National Assembly for Wales - GI Services (Department of Planning & Countryside)	April 2016	
Natural Resources Wales	March 2023	Bi-Annually
Ramsar Sites		
Natural Resources Wales	March 2023	Bi-Annually
Sites of Special Scientific Interest		
Natural Resources Wales	March 2020	Bi-Annually
Special Areas of Conservation		
Natural Resources Wales	August 2020	Bi-Annually
Special Protection Areas		
Natural Resources Wales	August 2018	Bi-Annually

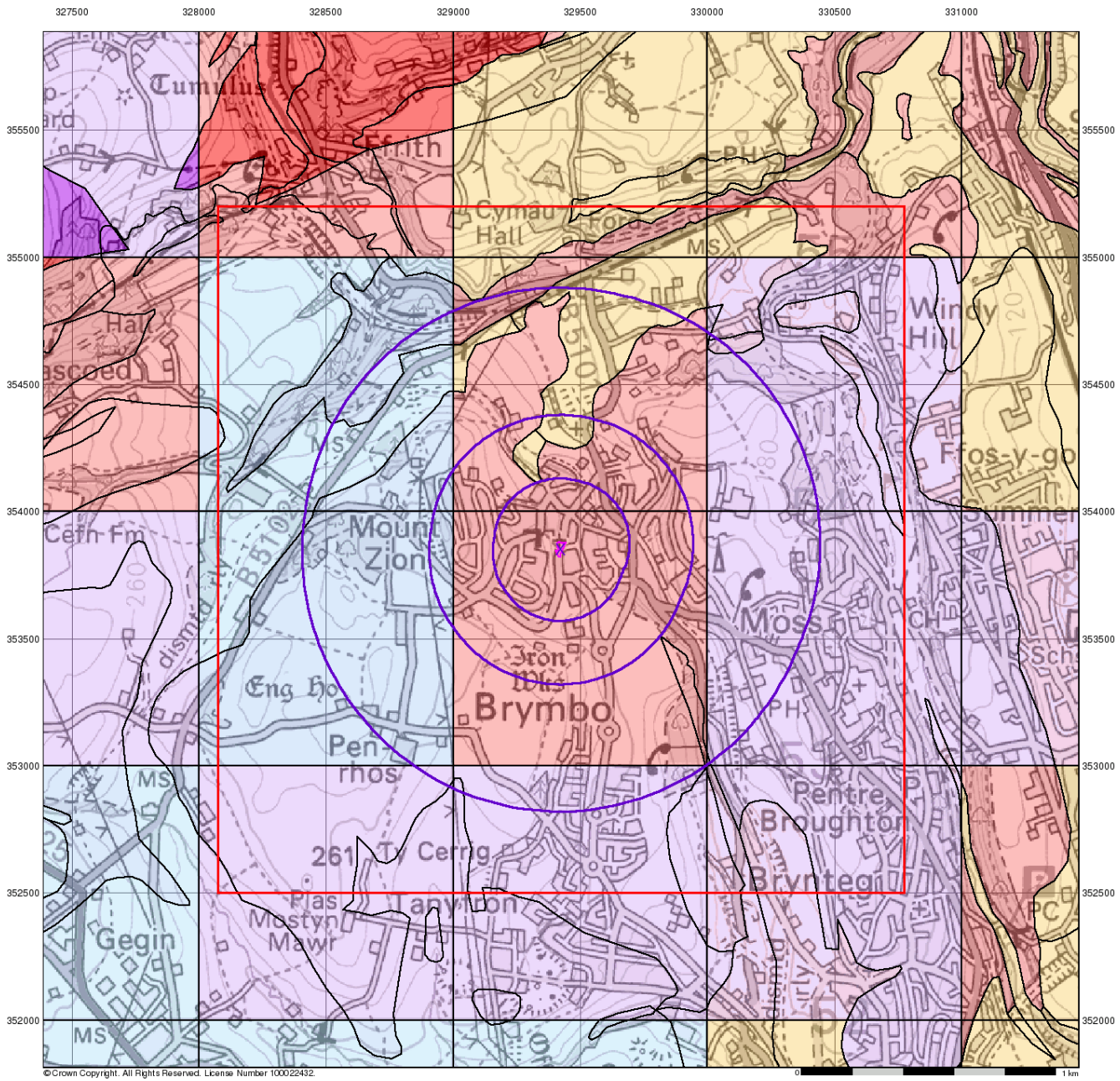
Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
Environment Agency	Environment Agency
Scottish Environment Protection Agency	SEPA Scottish Environment Protection Agency
The Coal Authority	The Coal Authority
British Geological Survey	British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	CEH Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	Cyfoeth Naturiol Cymru Natural Resources Wales
Scottish Natural Heritage	SCOTTISH NATURAL HERITAGE
Natural England	NATURAL ENGLAND
Public Health England	Public Health England
Ove Arup	ARUP
Stantec UK Ltd	Stantec

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Wrexham County Borough Council - Public Protection Department** Crown Buildings, P O Box 1297, Wrexham, Clwyd, LL13 8ZE	Telephone: 01978 297038 Fax: 01978 292502 Website: www.wrexham.gov.uk
3	**Natural Resources Wales** Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
4	**Wrexham County Borough Council - Environmental Health Department** Crown Buildings, P O Box 1297, Wrexham, Clwyd, LL13 8ZE	Telephone: 01978 297038 Fax: 01978 292502 Website: www.wrexham.gov.uk
5	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
6	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
7	**Wrexham County Borough Council** Lampet Street, Guildhall, Wrexham, Clwyd, LL11 1WL	Telephone: 01978 292000 Fax: 01978 292502 Website: www.wrexham.gov.uk
8	**Flintshire Council - Environmental Health Department** County Hall, Mold, Flintshire, CH7 6NF	Telephone: 01352 703413 Fax: 01352 703441 Website: www.flintshire.gov.uk
9	**The Coal Authority - Property Searches** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
10	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



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Groundwater Vulnerability

General

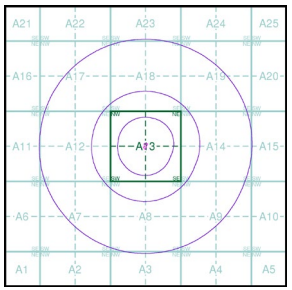
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Bedrock Aquifers	Superficial Aquifers
High Vulnerability, Principal Aquifer	High Vulnerability, Principal Aquifer
High Vulnerability, Secondary Aquifer	High Vulnerability, Secondary Aquifer
Medium Vulnerability, Principal Aquifer	Medium Vulnerability, Principal Aquifer
Medium Vulnerability, Secondary Aquifer	Medium Vulnerability, Secondary Aquifer
Low Vulnerability, Principal Aquifer	Low Vulnerability, Principal Aquifer
Low Vulnerability, Secondary Aquifer	Low Vulnerability, Secondary Aquifer

Unproductive Aquifer
Soluble Rock

Site Sensitivity Context Map - Slice A



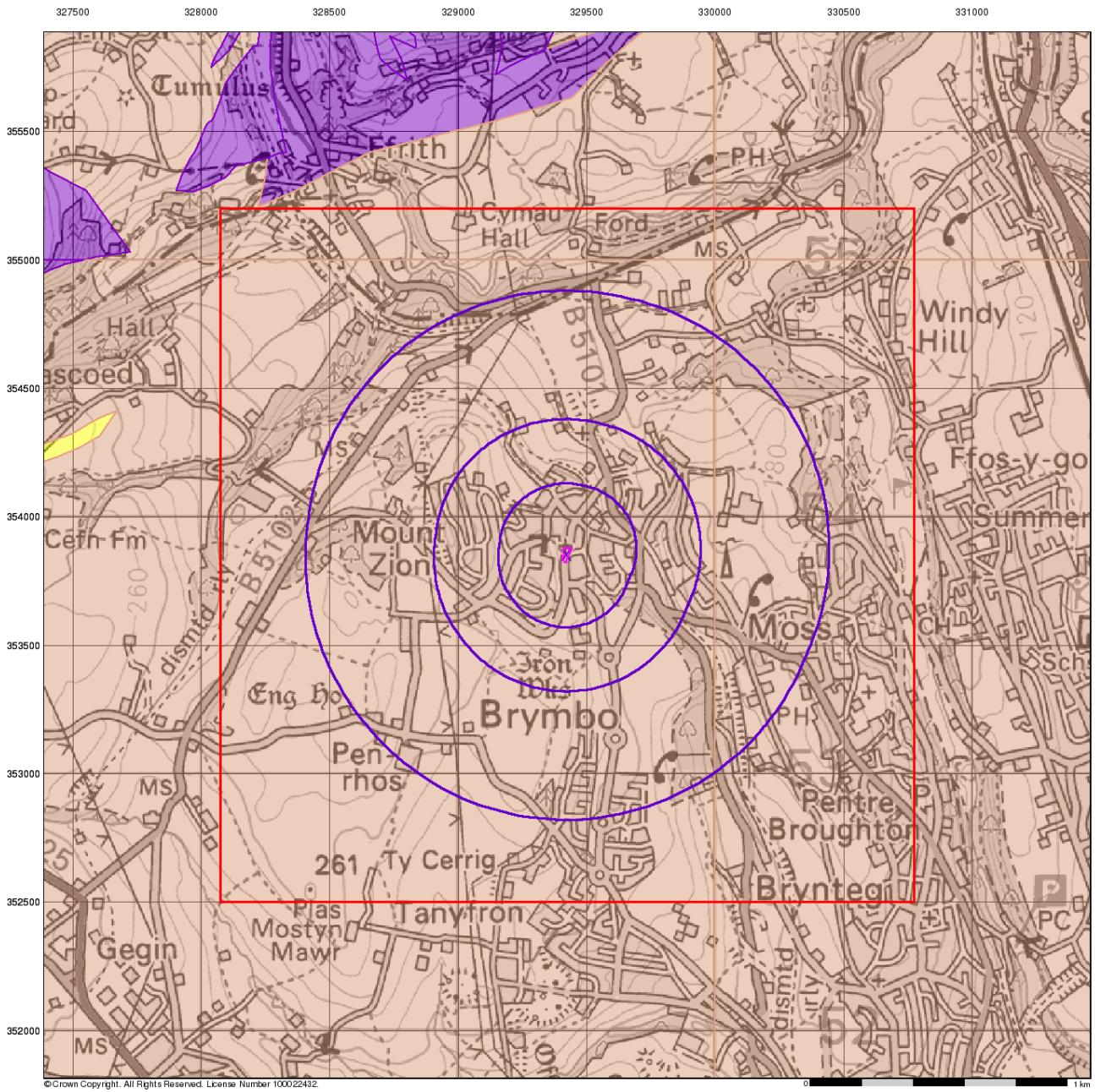
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Order Number:	309200671_1_1
Customer Ref:	33326LG
National Grid Reference:	329420, 353850
Slice:	A
Site Area (Ha):	0.12
Search Buffer (m):	1000

Site Details

Brymbo Chapels, Wrexham, LL11 5BL

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Bedrock Aquifer Designation

General

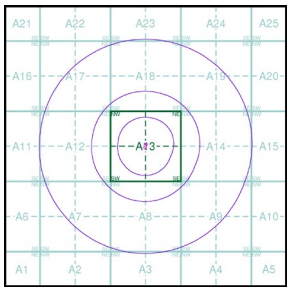
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



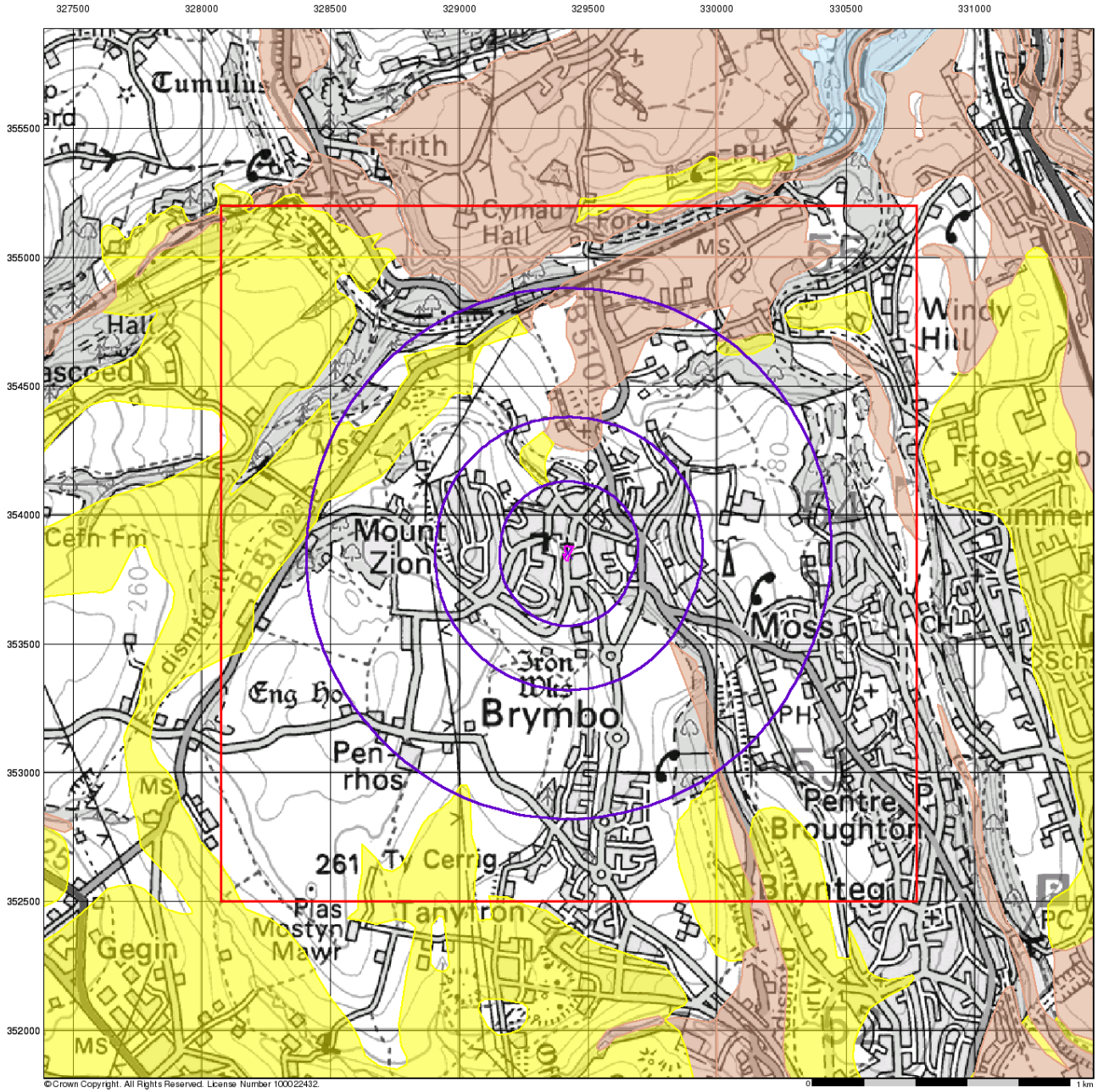
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National Grid Reference:	329420, 353850
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Site Area (Ha):	0.12
Search Buffer (m):	1000

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Superficial Aquifer Designation

General

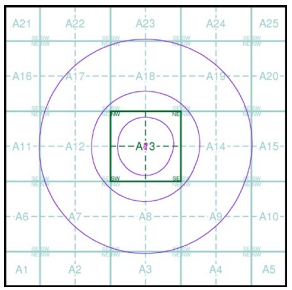
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



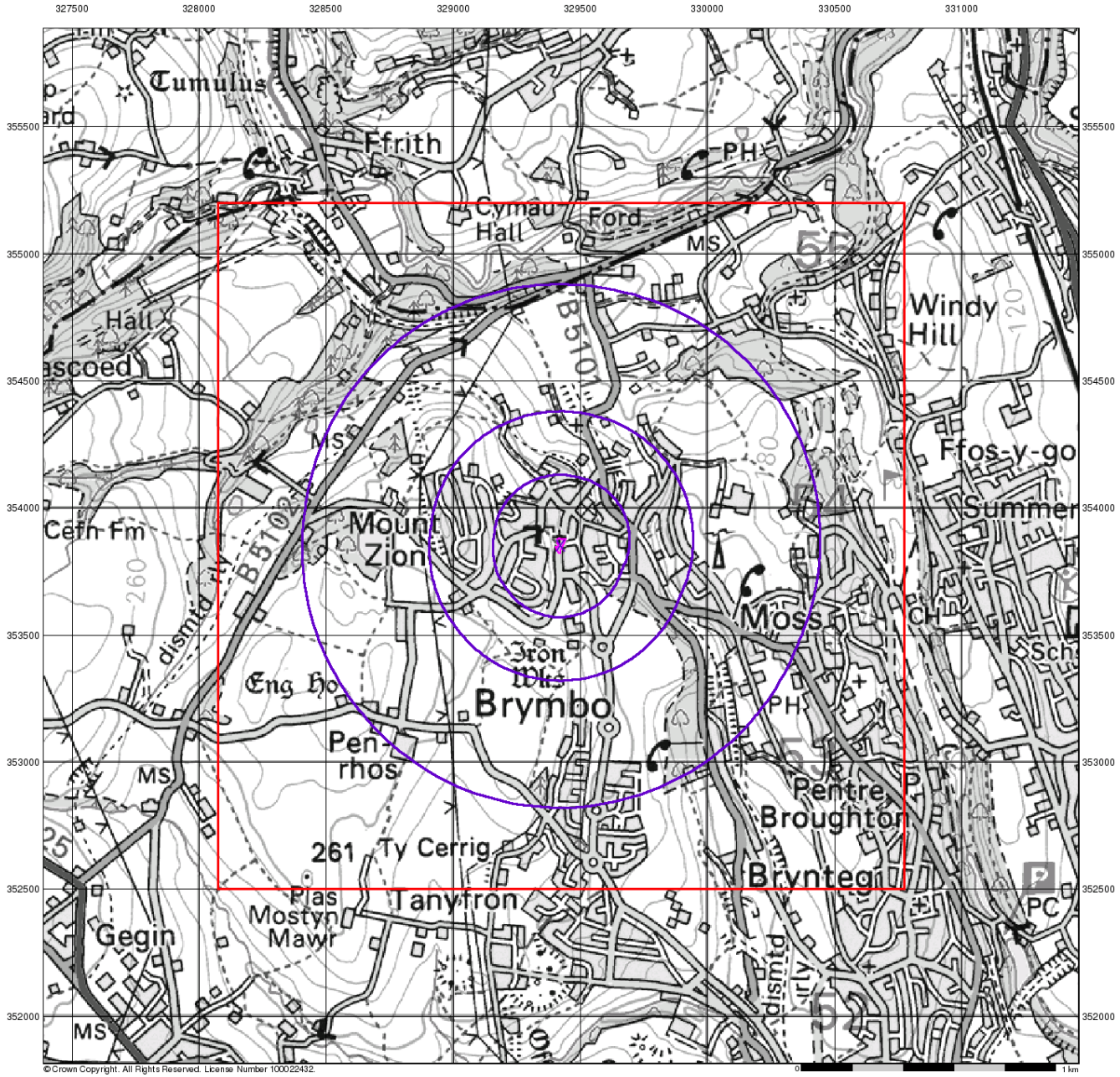
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Customer Ref:	33326LG
National Grid Reference:	329420, 353850
Slice:	A
Site Area (Ha):	0.12
Search Buffer (m):	1000

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Source Protection Zones

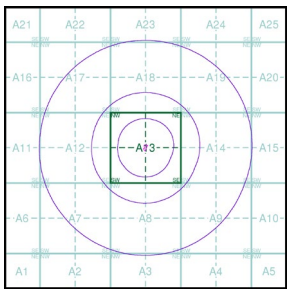
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice A



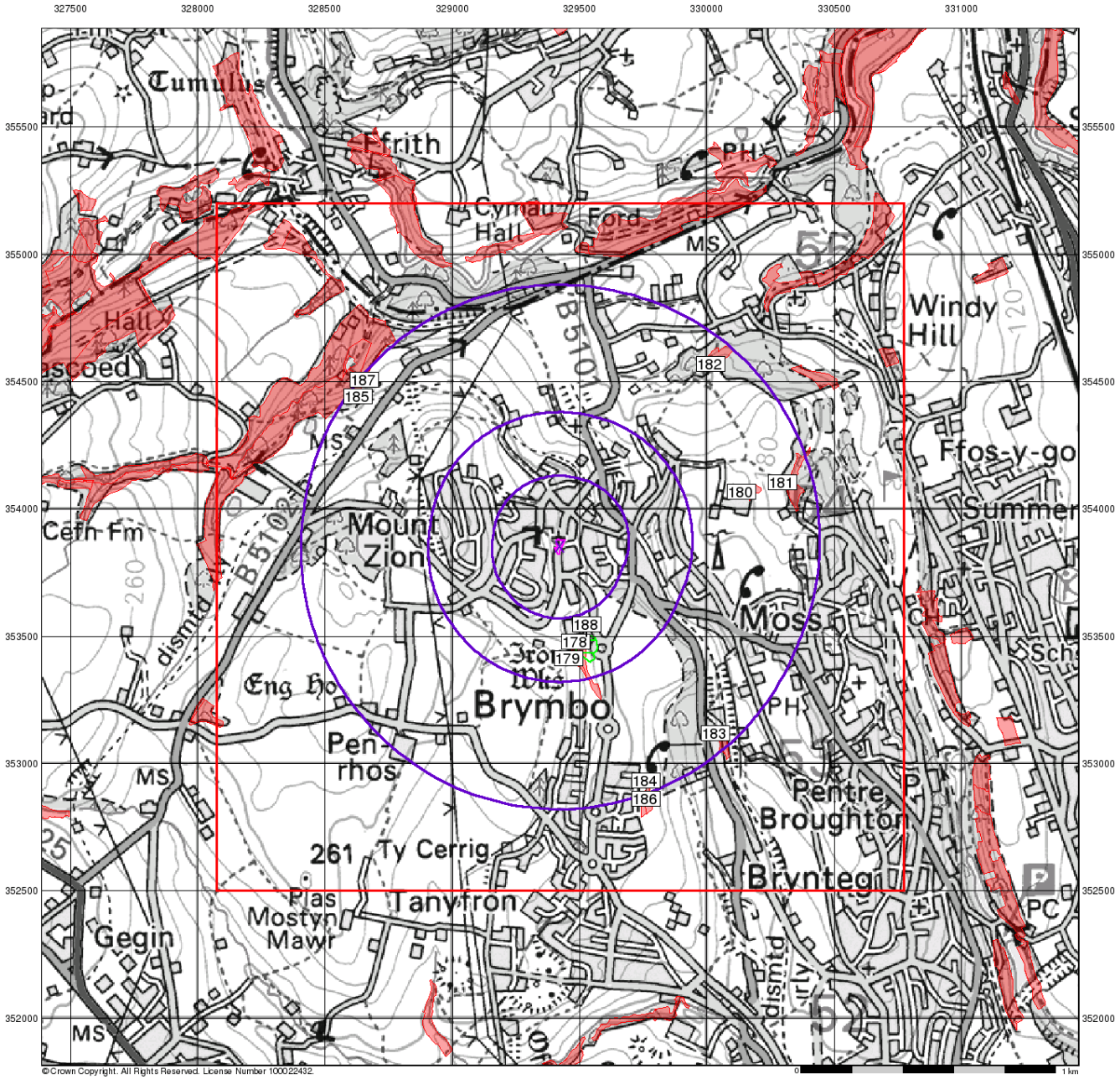
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Search Buffer (m):	1000

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Sensitive Land Uses

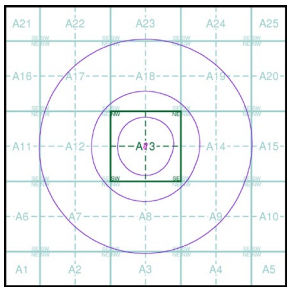
General

Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice A



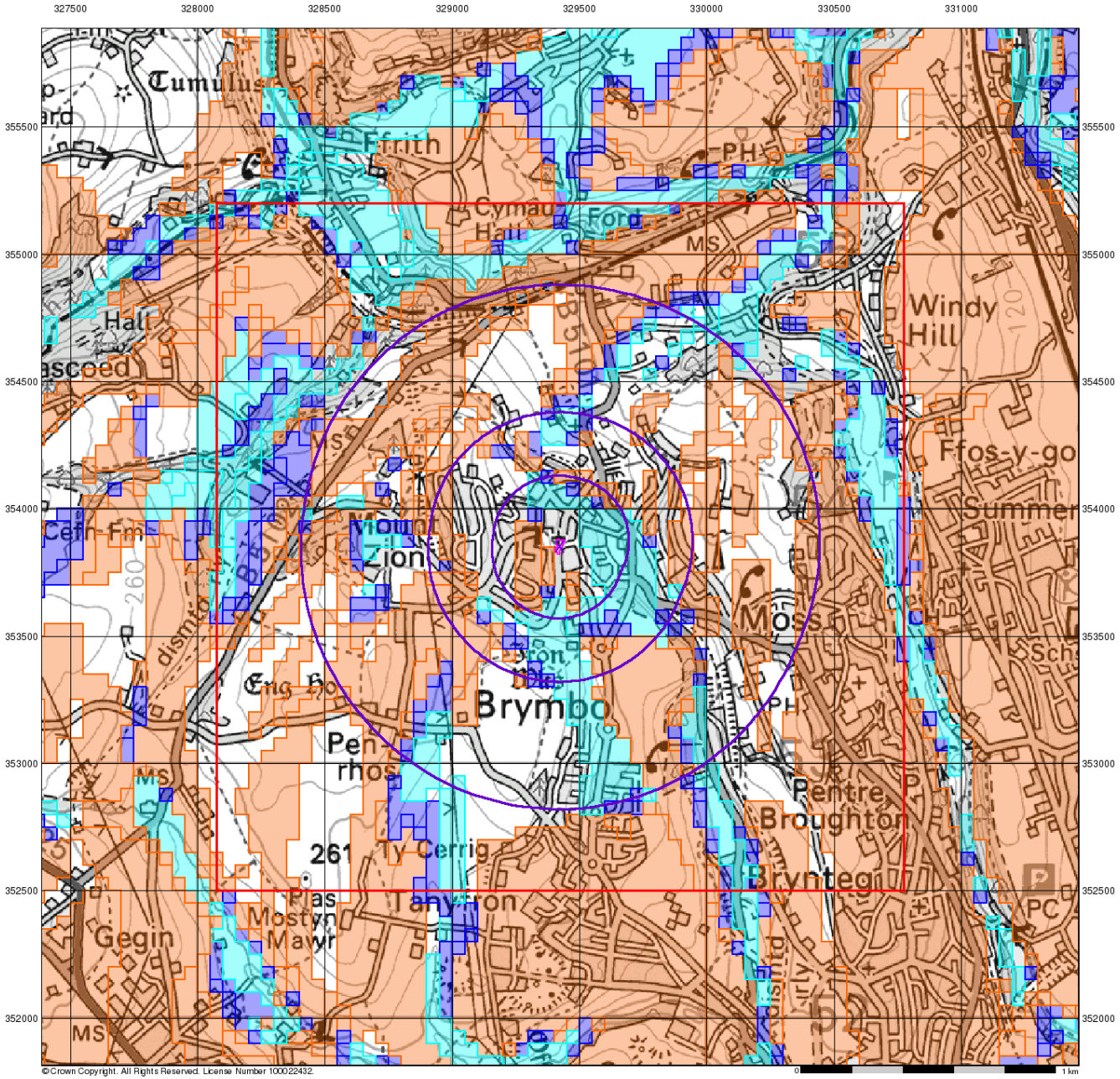
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Customer Ref:	33326LG
National Grid Reference:	329420, 353850
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Site Area (Ha):	0.12
Search Buffer (m):	1000

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BGS Flood GFS Data

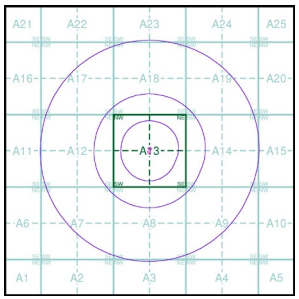
General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	309200671_1_1
Customer Ref:	33326LG
National Grid Reference:	329420, 353850
Slice:	A
Site Area (Ha):	0.12
Search Buffer (m):	1000

Site Details

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General

Specified Site
Specified Buffer(s)
Bearing Reference Point
Map ID
Several of Type at Location
Pylon
Overhead Transmission Line

Agency and Hydrological

Contaminated Land Register Entry or Notice (Location)
Contaminated Land Register Entry or Notice
Discharge Consent
Enforcement or Prohibition Notice
Integrated Pollution Control
Integrated Pollution Prevention Control
Local Authority Integrated Pollution Prevention and Control
Local Authority Pollution Prevention and Control
Local Authority Pollution Prevention and Control Enforcement
Pollution Incident to Controlled Waters
Prosecution Relating to Authorised Processes
Prosecution Relating to Controlled Waters
Registered Radioactive Substance
River Network or Water Feature
River Quality Sampling Point
Substantiated Pollution Incident Register
Water Abstraction
Water Industry Act Referral

Hazardous Substances

COMAH Site
Explosive Site
NIHHS Site
Planning Hazardous Substance Consent
Planning Hazardous Substance Enforcement

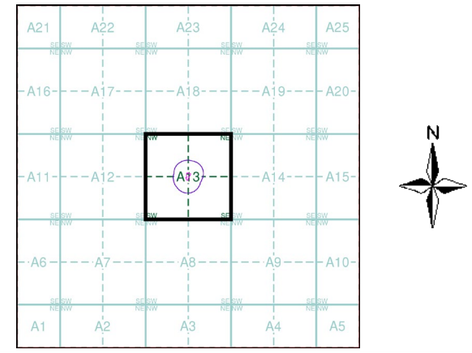
Waste

BGS Recorded Landfill Site (Location)
BGS Recorded Landfill Site
EA Historic Landfill (Buffered Point)
EA Historic Landfill (Polygon)
Integrated Pollution Control Registered Waste Site
Licensed Waste Management Facility (Landfill Boundary)
Licensed Waste Management Facility (Location)
Local Authority Recorded Landfill Site (Location)
Local Authority Recorded Landfill Site
Potentially Infilled Land (Non-water)
Potentially Infilled Land (Non-water)
Potentially Infilled Land (Non-water)
Potentially Infilled Land (Water)
Potentially Infilled Land (Water)
Potentially Infilled Land (Water)
Registered Landfill Site
Registered Landfill Site (Location)
Registered Landfill Site (Point Buffered to 100m)
Registered Landfill Site (Point Buffered to 250m)
Registered Waste Transfer Site (Location)
Registered Waste Transfer Site
Registered Waste Treatment or Disposal Site (Location)
Registered Waste Treatment or Disposal Site

Geological

BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13



Order Details

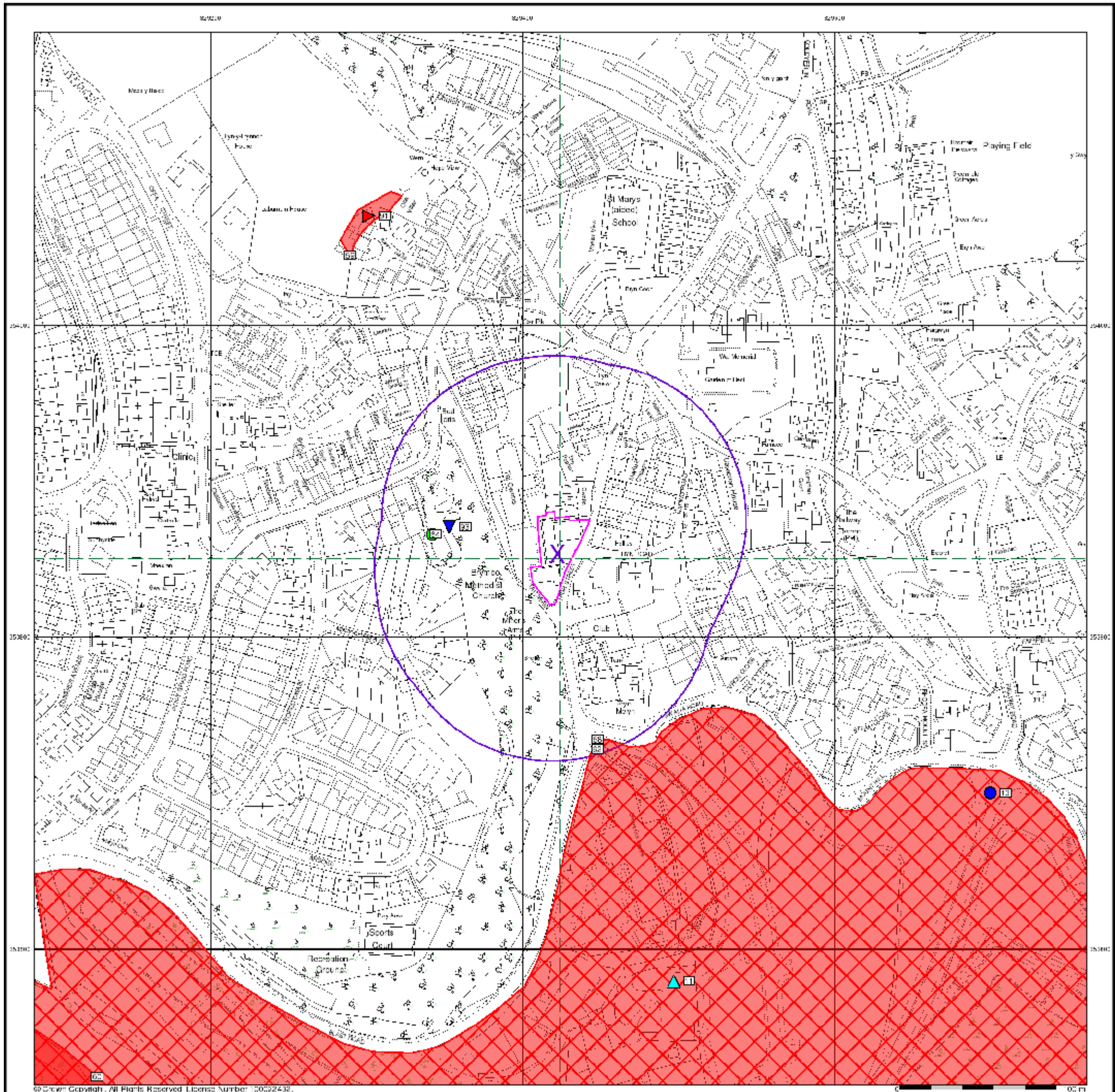
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Customer Ref: 33326LG

National Grid Reference: 329420, 353850
Slice: A
Site Area (Ha): 0.12
Plot Buffer (m): 100

Site Details

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Landmark INFORMATION GROUP
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Playing Field
St Marys (aided) School
Clinic
Sports Ground
Recreation Ground
Club
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Sutcliffe

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Agency and Hydrological

Contaminated Land Register Entry or Notice (Location)

Contaminated Land Register Entry or Notice

Discharge Consent

Enforcement or Prohibition Notice

Integrated Pollution Control

Integrated Pollution Prevention Control

Local Authority Integrated Pollution Prevention and Control

Local Authority Pollution Prevention and Control

Local Authority Pollution Prevention and Control Enforcement

Pollution Incident to Controlled Waters

Prosecution Relating to Authorised Processes

Prosecution Relating to Controlled Waters

Registered Radioactive Substance

River Network or Water Feature

River Quality Sampling Point

Substantiated Pollution Incident Register

Water Abstraction

Water Industry Act Referral

Hazardous Substances

COMAH Site | Explosive Site

NIHHS Site

Planning Hazardous Substance Consent

Planning Hazardous Substance Enforcement

Geological

BGS Recorded Mineral Site

Waste

BGS Recorded Landfill Site (Location)

BGS Recorded Landfill Site

EA Historic Landfill (Buffered Point)

EA Historic Landfill (Polygon)

Integrated Pollution Control Registered Waste Site

Licensed Waste Management Facility (Landfill Boundary)

Licensed Waste Management Facility (Location)

Local Authority Recorded Landfill Site (Location)

Local Authority Recorded Landfill Site

Potentially Infilled Land (Non-water)

Potentially Infilled Land (Non-water)

Potentially Infilled Land (Non-water)

Potentially Infilled Land (Water)

Potentially Infilled Land (Water)

Potentially Infilled Land (Water)

Registered Landfill Site

Registered Landfill Site (Location)

Registered Landfill Site (Point Buffered to 100m)

Registered Landfill Site (Point Buffered to 250m)

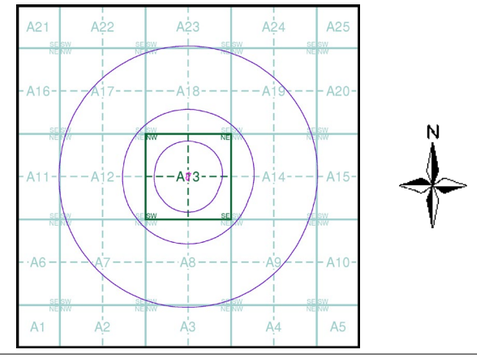
Registered Waste Transfer Site (Location)

Registered Waste Transfer Site

Registered Waste Treatment or Disposal Site (Location)

Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Slice A



Order Details

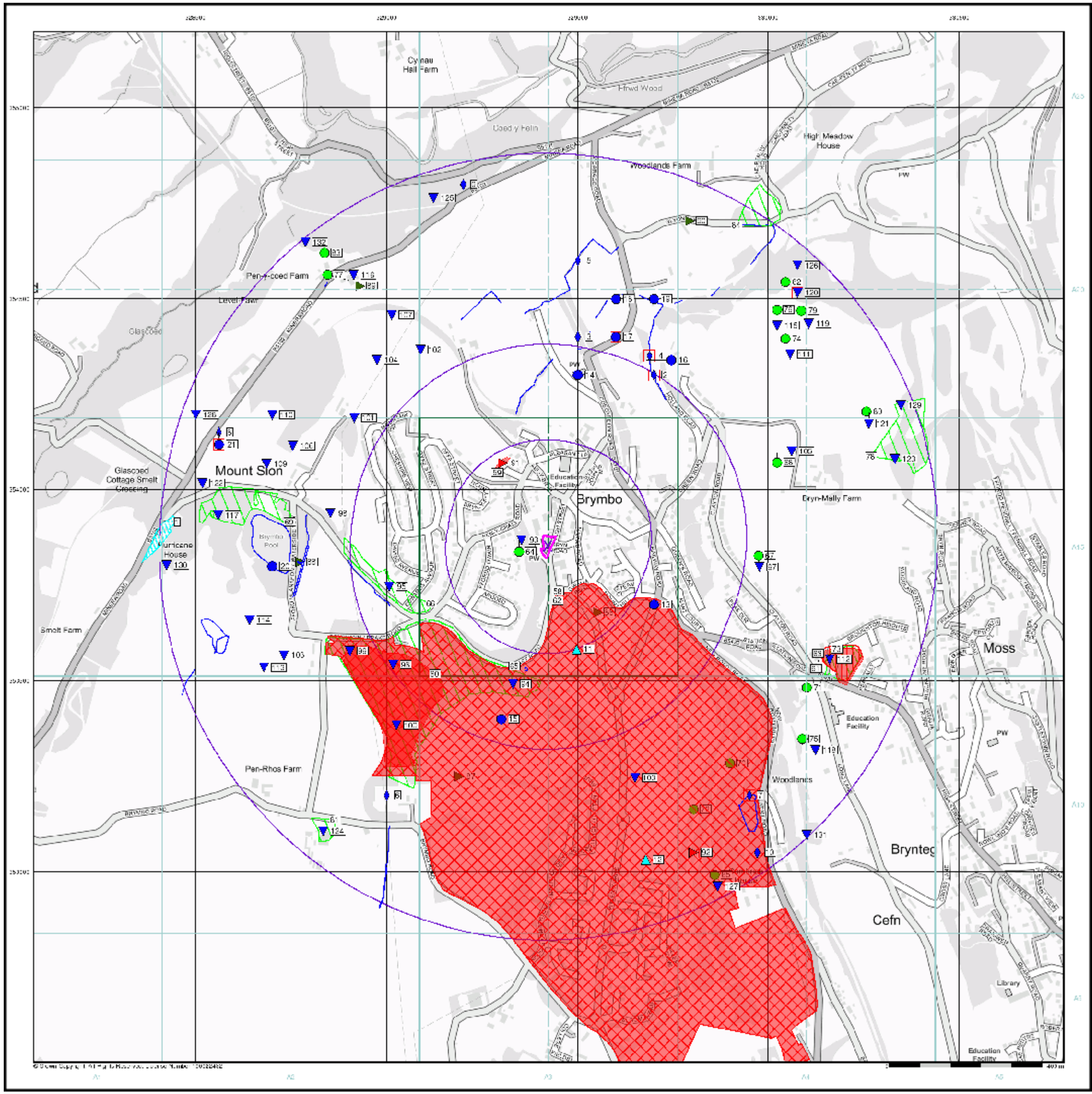
Order Number:	309200671_1_1
Customer Ref:	33326LG
National Grid Reference:	329420, 353850
Slice:	A
Site Area (Ha):	0.12
Search Buffer (m):	1000

Site Details

Brymbo Chapels, Wrexham, LL11 5BL

Landmark INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk


Cynau Hall Farm
Hirwd Wood
Coed y Felin
High Meadow House
Woodlands Farm
Pen-y-coed Farm
Level Farm
Glascoed
Glascoed Cottage Smelt Crossing
Mount Sion
Brymbo
Education Facility
Bryn-Mally Farm
Hurricane House
Brymbo Pool
Smelt Farm
Pen-Rhos Farm
Moss
Woodlanes
Cefn
Library
PW

Industrial Land Use Map

General

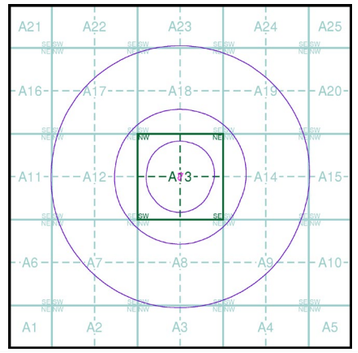
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | Map ID

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

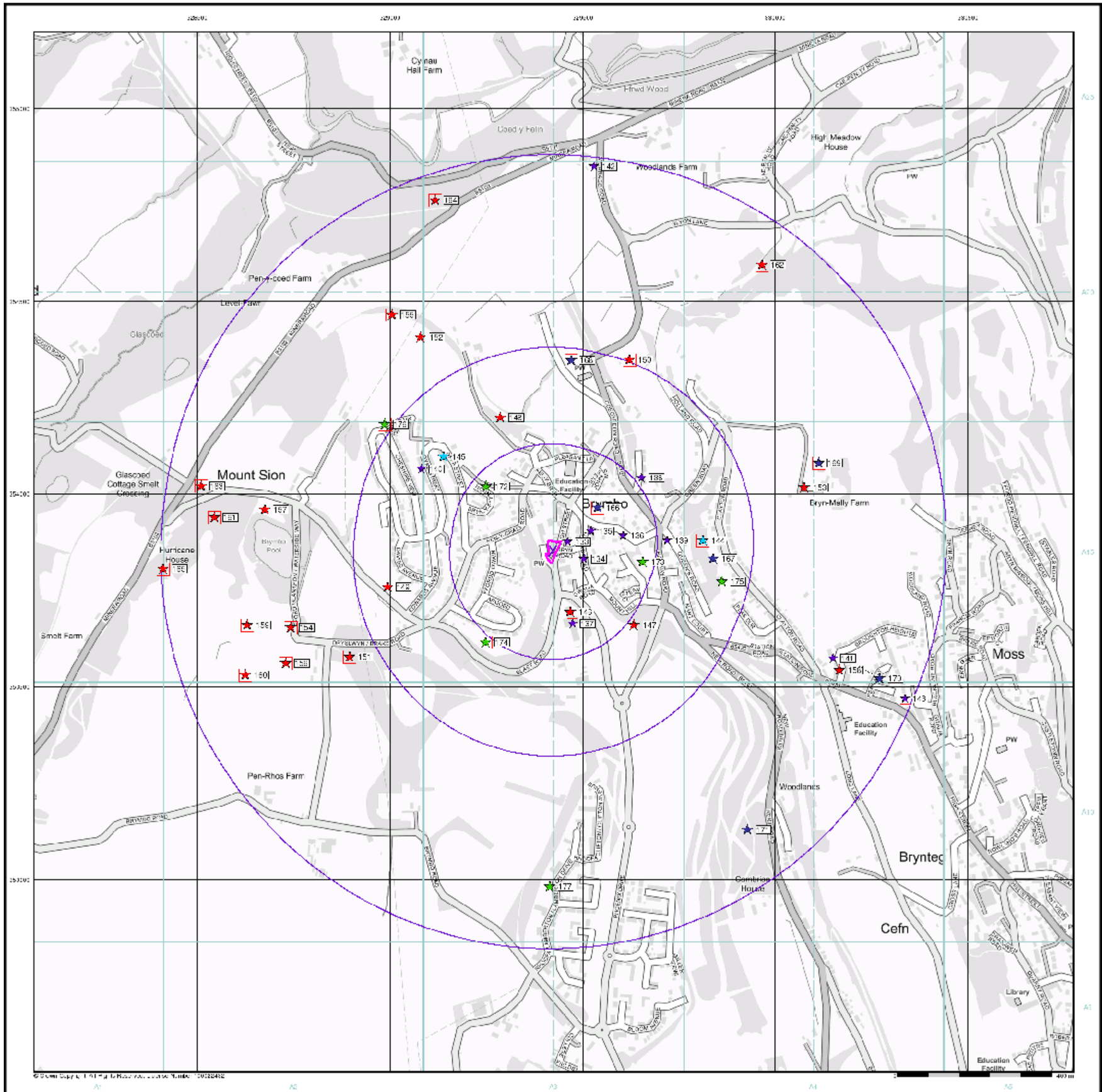
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Slice:	A
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Glascoed Cottage Smelt Crossing
Mount Sion
Education Facility
Bryn-Mally Farm
Hurricane House
Smelt Farm
Pen-Rhos Farm
Moss
Education Facility
Woodlands
Brynteg
Cefn
Cambrian House
Library
Education Facility

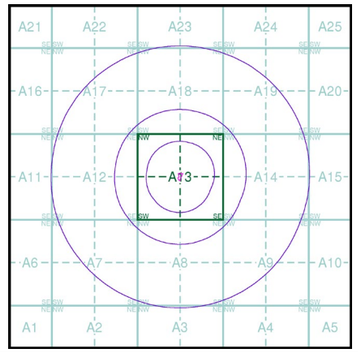
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



Order Details

Order Number: 309200671_1_1
Customer Ref: 33326LG

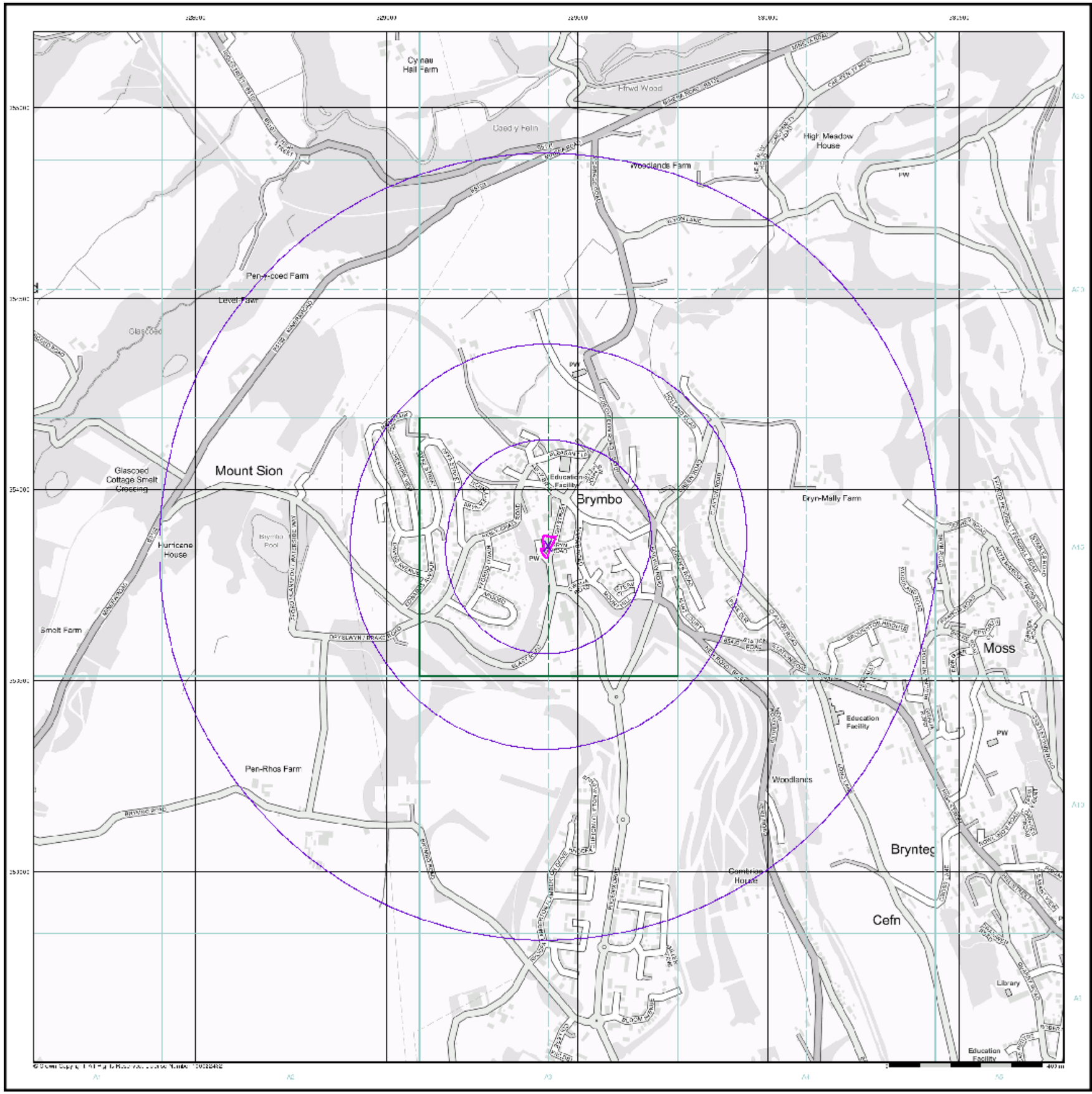
National Grid Reference: 329420, 353850
Slice: A
Site Area (Ha): 0.12
Search Buffer (m): 1000

Site Details

Brymbo Chapels, Wrexham, LL11 5BL

Landmark INFORMATION GROUP

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Web: www.envirocheck.co.uk


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Level Farm
Glascoed
Glascoed Cottage Smelt Crossing
Mount Sion
Brymbo
Education Facility
Bryn-Mally Farm
Hurricane House
Brymbo Pool
Smelt Farm
Pen-Rhos Farm
Moss
Woodlands
Education Facility
Brynteg
Cefn
Library
Education Facility

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

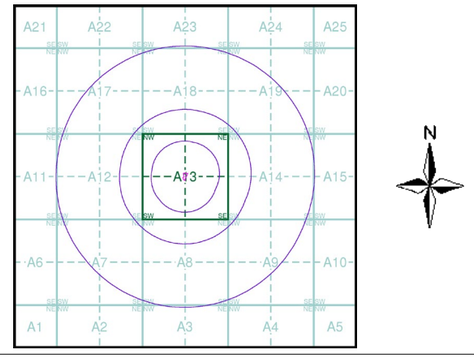
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



Order Details

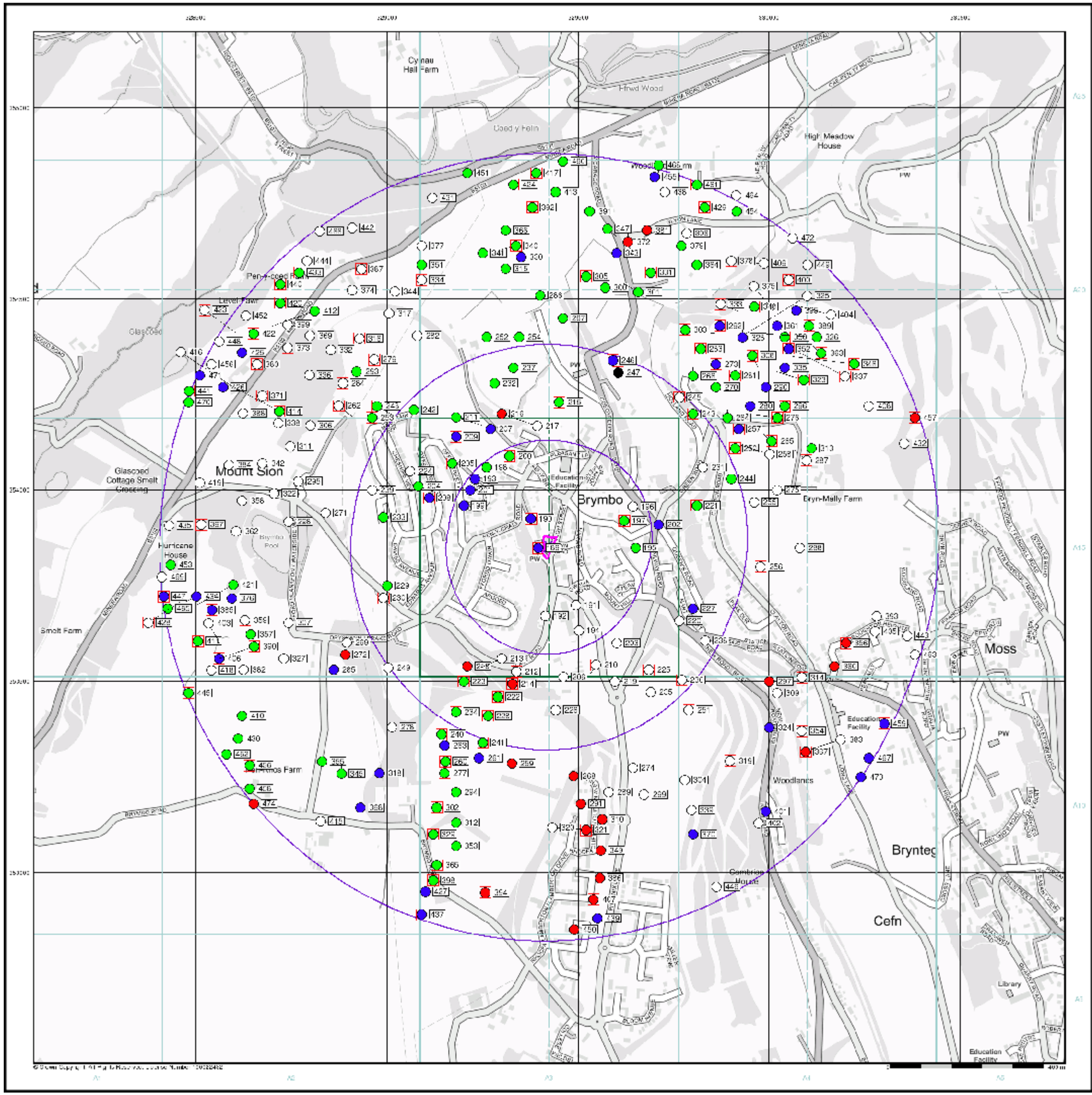
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Site Area (Ha): 0.12
Search Buffer (m): 1000

Site Details

Brymbo Chapels, Wrexham, LL11 5BL

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk


Cynau Hall Farm
Hirwd Wood
Coed y Felin
High Meadow House
Penycoed Farm
Level Bwr
Glascoed
Glascoed Cottage Smelt Crossing
Mount Sion
Brymbo
Education Facility
Bryn-Mally Farm
Hurricane House
Brymbo Pool
Smelt Farm
Moss
Woodlands
Cambrian House
Cefn
Library
PW

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

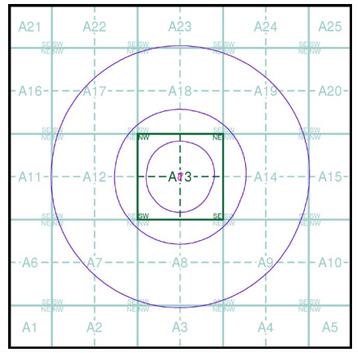
OS Water Network Data

- Canal
- Reservoir
- Foreshore
- Marsh
- Tidal River
- Inland River
- Drain
- Other
- Lake
- Transfer
- Lock Or Flight Of Locks
- Sea

Contours (height in meters)

- Standard Contour (105, 100, 95)
- Master Contour
- Spot Height (167.3)
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

Order Number: 309200671_1_1
Customer Ref: 33326LG

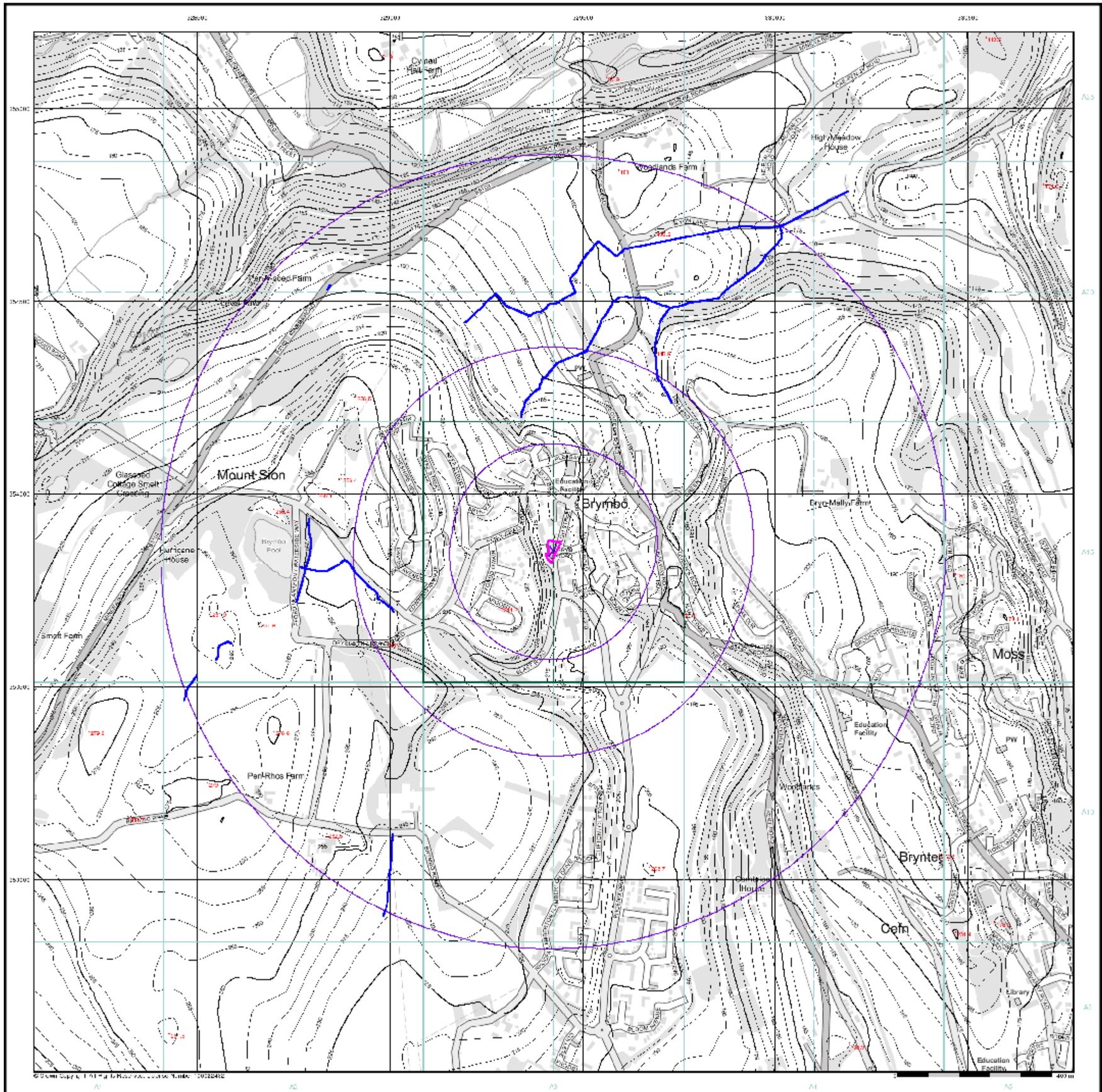
National Grid Reference: 329420, 353850
Slice: A
Site Area (Ha): 0.12
Search Buffer (m): 1000

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Landmark INFORMATION GROUP

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Woodlands Farm
High Meadow House
Mount Sion
Glascoed College Small Dwelling
Brymbo
Brymbo Pool
Hurricane House
Smart Farm
Penybaedfarm
Bryn-Mally Farm
Moss
Education Facility
PW
Pen Rhos Farm
Woodbanks
Bryntes
Cefn
Library
Education Facility

General

Specified Site

Specified Buffer(s)

Bearing Reference Point

Risk of Flooding from Surface Water

High - 30 Year Return

Medium - 100 Year Return

Low - 1000 Year Return

Suitability

See the suitability map below

National to county

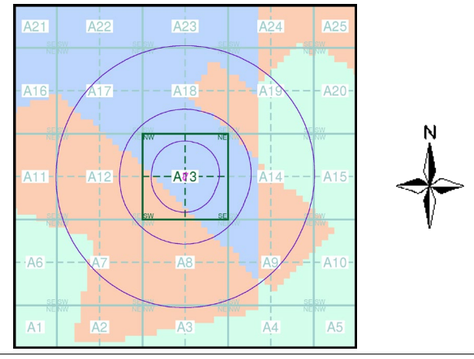
County to town

Town to street

Street to parcels of land

Property

EA/NRW Suitability Map - Slice A



Order Details

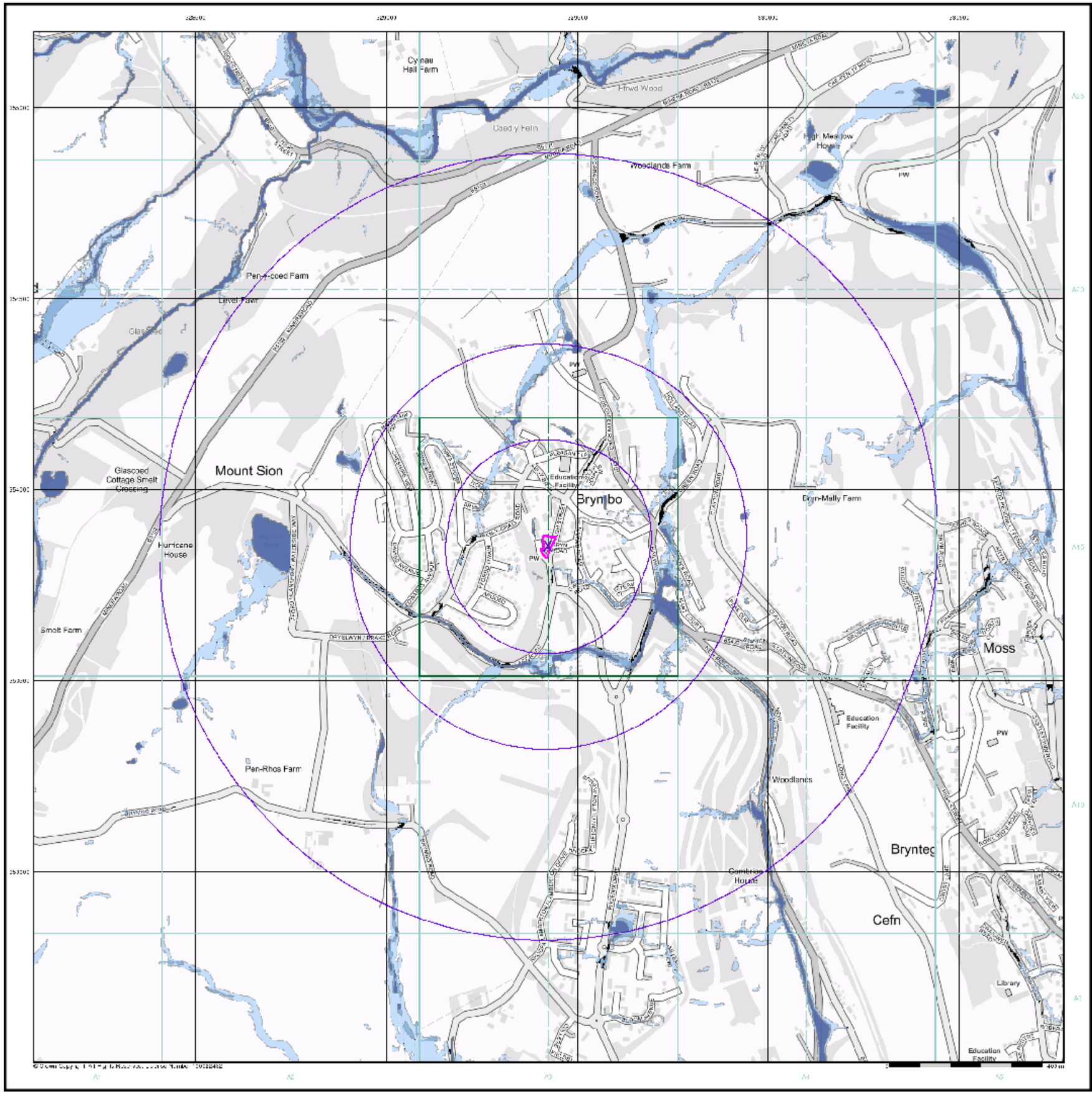
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Customer Ref:	33326LG
National Grid Reference:	329420, 353850
Slice:	A
Site Area (Ha):	0.12
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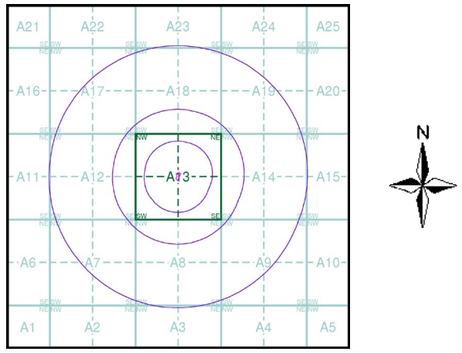
Specified Site Specified Buffer(s) X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



Order Details

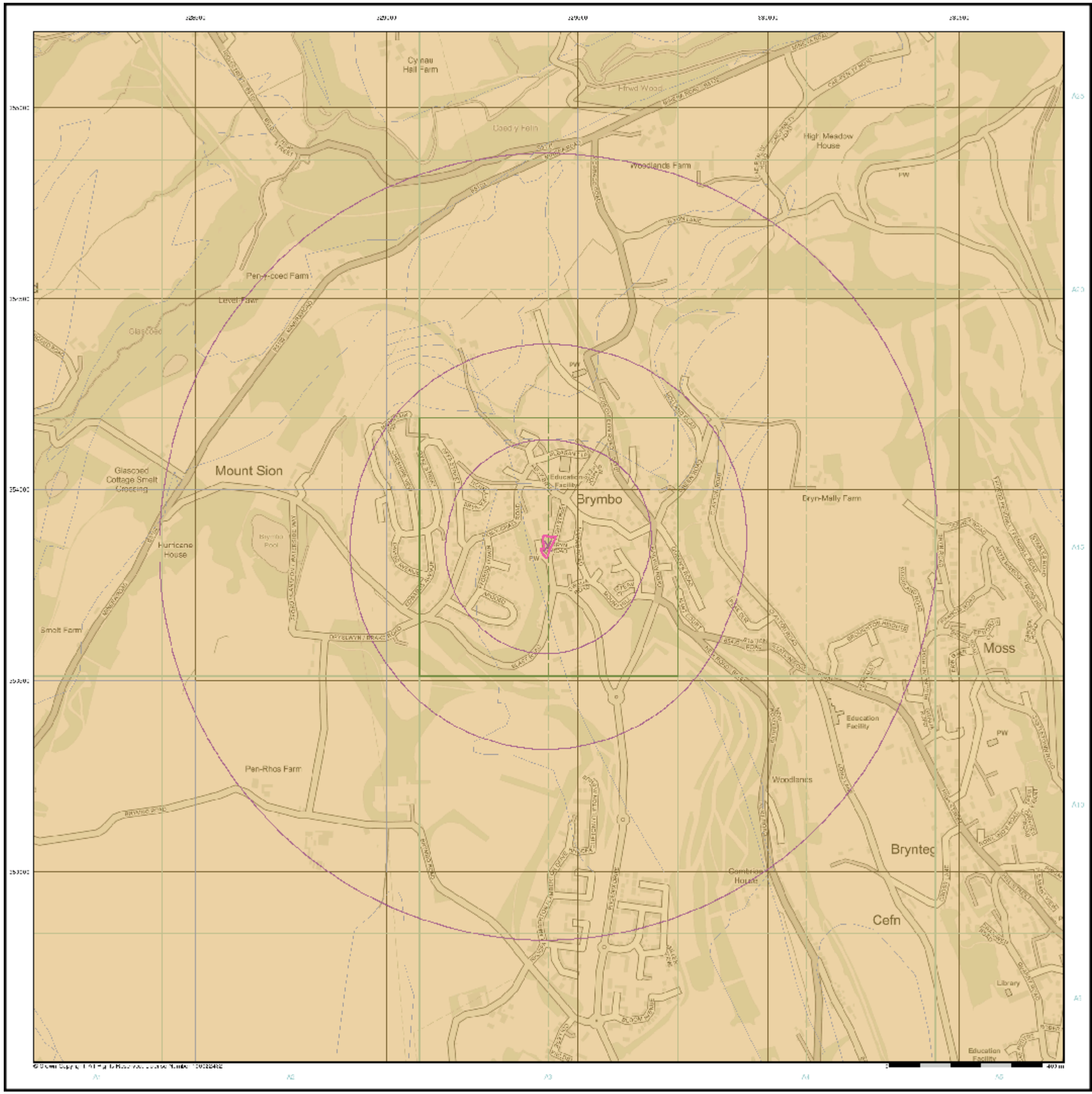
Order Details:	309200671_1_1
Customer Ref:	33326LG
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General

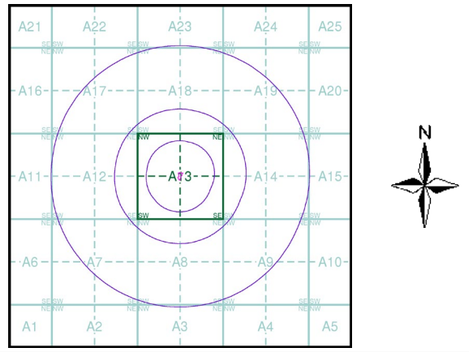
Specified Site Specified Buffer(s) X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



Order Details

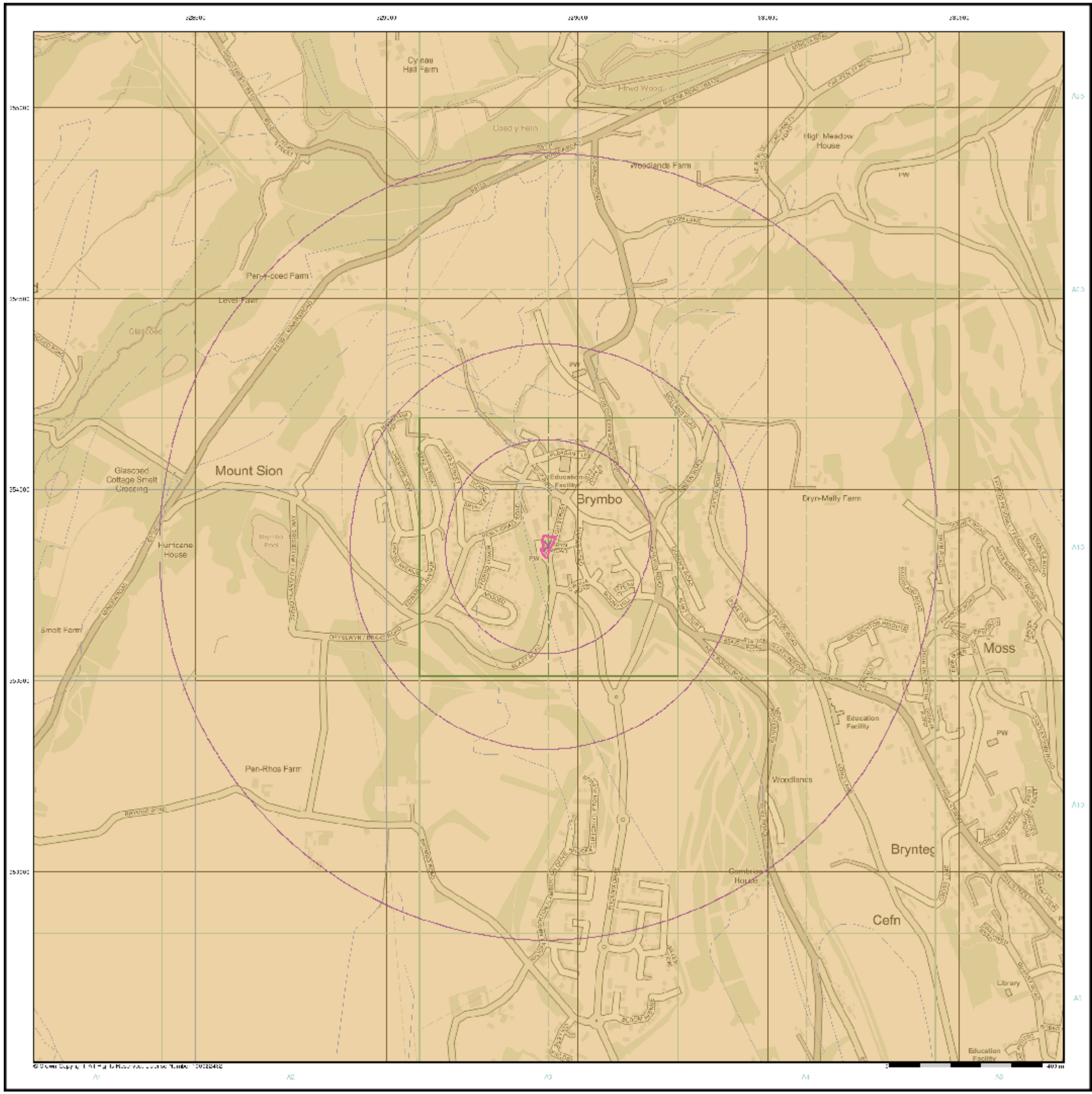
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Woodlanes
Brynteg
Cefn
Library
Education Facility
A55
A5
A483
A13
A1
A1
A2
A3
A4
A5
400m